PSYCHOLOGY, B.S. (ALTOONA)

Begin Campus: Any Penn State Campus
End Campus: Altoona

Program Description
The Psychology major will combine the knowledge, skills, and values of psychology with a liberal arts foundation. Students should:

- develop a knowledge base consisting of concepts, theory, empirical findings, and trends within psychology;
- understand and apply basic research methods in psychology;
- use critical thinking and the scientific approach to solve problems related to behavior and mental processes;
- apply psychological principles to personal and social issues;
- and be able to understand the gender, sexual orientation, race, ethnicity, culture, and class issues in psychological theory, research, and practice.

Students should also develop information and computer competence, communication skills, and develop realistic ideas about how to implement their psychology education in occupational pursuits in a variety of settings. The major may lead to either a Bachelor of Arts or a Bachelor of Science degree. The B.A. degree incorporates a broad exposure to the many facets of the field of psychology, in addition to the B.A. requirements. The B.S. degree provides the same exposure to the field of psychology and adds options in Science and Business to prepare students for more specific career directions. Students in both degree programs may also prepare for graduate school; research experience with faculty members is encouraged for such students.

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 are interested in people and in learning to use science to better understand them. As a major, you’ll have opportunities to do research with faculty and to work in career-relevant settings.

MORE INFORMATION ABOUT PSYCHOLOGY (http://altoona.psu.edu/academics/bachelors-degrees/psychology/)

Entrance to Major
In order to be eligible for entrance to this major, a student must:

1. attain at least a C (2.00) cumulative grade-point average for all courses taken at the University; and
2. have third-semester classification (http://www.registrar.psu.edu/enrollment/semester-classification.cfm).

READ SENATE POLICY 37-30: ENTRANCE TO AND CHANGES IN MAJOR PROGRAMS OF STUDY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/37-00-entrance-to-a-college-or-major/)

Degree Requirements
For the Bachelor of Science degree in Psychology, a minimum of 124 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>14-18</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>65</td>
</tr>
</tbody>
</table>

0-4 of the 45 credits for General Education are included in the Requirements for the Major. This includes 0-4 credits of General Education GQ courses.

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. (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44). For more information, check the Suggested Academic Plan for your intended program.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 100</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 301W</td>
<td>Basic Research Methods in Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Additional Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 200</td>
<td>Elementary Statistics in Psychology</td>
<td>4</td>
</tr>
<tr>
<td>or STAT 200</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Select 18 credits of the following, with a minimum of 3 credits from each of the following six categories:

<table>
<thead>
<tr>
<th>Learning and Cognition</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 256</td>
</tr>
<tr>
<td>PSYCH 261</td>
</tr>
<tr>
<td>PSYCH 268</td>
</tr>
</tbody>
</table>

| PSYCH 212 | Introduction to Developmental Psychology  |         |
| PSYCH 241 | Developmental Psychology                   |         |
| PSYCH 416/ HDFS 445 | Development Throughout Adulthood       |         |

PSYCH 474 | Psychological Intervention in Childhood   |         |

<table>
<thead>
<tr>
<th>Applied and Clinical Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 243</td>
</tr>
<tr>
<td>PSYCH 244</td>
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<tr>
<td>PSYCH 270</td>
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<tr>
<td>PSYCH 281</td>
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<tr>
<td>PSYCH 370</td>
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<tr>
<td>PSYCH 404</td>
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<tr>
<td>PSYCH 408</td>
</tr>
</tbody>
</table>
PSYCH 443  Treatment and Education in Developmental Disabilities
PSYCH 444  Engineering Psychology
PSYCH 445  Forensic Psychology
PSYCH 470  Abnormal Psychology
PSYCH 471  Psychology of Adjustment and Social Relationships
PSYCH 473  Behavior Modification
PSYCH 476  Child Psychopathology
PSYCH 477  Mental Health Practicum with Children
PSYCH 481  Introduction to Clinical Psychology
PSYCH 482  Selection and Assessment in Organizations
PSYCH 484  Work Attitudes and Motivation
PSYCH 485  Leadership in Work Settings
PSYCH 439  History and Systems of Psychology
PSYCH 490  Senior Seminar in Psychology
PSYCH 493  Senior Thesis
PSYCH 494  Research Projects
PSYCH 495  Internship
PSYCH 496  Independent Studies

Select 12 credits of additional Psychology courses from any offered for a total of 30 credits of Psychology courses beyond PSYCH 100 and PSYCH 301W

Requirements for the Option
Requirements for the Option: Require a grade of C or better
Select an option 24

1 Must select at least 15 credits at the 400-level.

Requirements for the Option
Science Option (24 credits)
Available at the following campuses: Altoona, Beaver, Brandywine, Fayette, Greater Allegheny, Hazleton, Lehigh Valley, Mont Alto, New Kensington, Schuylkill, Scranton, York

Code Title Credits

Additional Courses Additional Courses: Require a grade of C or better
Select 15 credits of the following: 15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 21</td>
<td>Introductory Biological Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 22</td>
<td>Humans as Primates</td>
<td></td>
</tr>
<tr>
<td>BBH 101</td>
<td>Introduction to Biobehavioral Health</td>
<td></td>
</tr>
<tr>
<td>Any BIOL course</td>
<td></td>
<td></td>
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<tr>
<td>Any CHEM course</td>
<td></td>
<td></td>
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<tr>
<td>Any MICRB course</td>
<td></td>
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</tr>
<tr>
<td>Any PHYS course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Supporting Courses Supporting Courses: Require a grade of C or better
Select 6 credits in natural sciences/quantification from department list 6
Select 3 credits in social and behavioral sciences from department list 3

1 MATH 22 or MATH 110 recommended.

Program Learning Objectives
Knowledge Base in Psychology:

1. Students should demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings to discuss how psychological principles apply to behavioral problems. Students completing Foundation courses should demonstrate breadth of their knowledge and application of psychological ideas to simple problems; students completing a baccalaureate degree should show depth in their knowledge and application of psychological concepts and frameworks to problems of greater complexity.
   a. Describe key concepts, principles, and overarching themes in psychology.
   b. Develop a working knowledge of psychology's content domains.
   c. Describe applications of psychology.

Scientific Inquiry and Critical Thinking:

1. The skills in this domain involve the development of scientific reasoning and problem solving, including effective research methods. Students completing Foundation courses should learn basic skills and concepts in interpreting behavior, studying research, and applying research design principles to drawing conclusions about psychological phenomena; students completing a baccalaureate degree should focus on theory use as well as designing and executing research plans.
Professional Development:

1. The emphasis in this goal is on application of psychology-specific content and skills, effective self-reflection, project-management skills, teamwork skills, and career preparation. Foundation outcomes concentrate on the development of work habits and ethics to succeed in academic settings. The skills in this goal at the Baccalaureate level refer to abilities that sharpen student readiness for post-baccalaureate employment, graduate school, or professional school. These skills can be developed and refined both in traditional academic settings and extracurricular involvement. In addition, career professionals can be enlisted to support occupational planning and pursuit. This emerging emphasis should not be construed as obligating psychology programs to obtain employment for their graduates, but instead encourages programs to optimize the competitiveness of their graduates for securing places in the workforce.

Communication:

1. Students should demonstrate competence in writing, oral, and interpersonal communication skills. Students completing Foundation courses should write a cogent scientific argument, present information using a scientific approach, engage in discussion of psychological concepts, explain the ideas of others, and express their own ideas with clarity. Students completing a baccalaureate degree should produce a research study or other psychological project; explain scientific results, and present information to a professional audience. They should also develop flexible interpersonal approaches that optimize information exchange and relationship development.
   a. Demonstrate effective writing for different purposes.
   b. Exhibit effective presentation skills for different purposes.
   c. Interact effectively with others.

Ethical and Social Responsibility in a Diverse World:

1. The skills in this domain involve the development of ethically and socially responsible behaviors for professional and personal settings in a landscape that involves increasing diversity. Students completing Foundation courses should become familiar with the formal regulations that govern professional ethics in psychology and begin to embrace the values that will contribute to positive outcomes in work settings and in building a society responsive to multicultural and global concerns. Students completing a baccalaureate degree should have more direct opportunities to demonstrate adherence to professional values that will help them optimize their contributions and work effectively, even with those who don’t share their heritage and traditions. This domain also promotes the adoption of personal and professional values that can strengthen community relationships and contributions.
   a. Apply ethical standards to evaluate psychological science and practice.
   b. Build and enhance interpersonal relationships.
   c. Adopt values that build community at local, national, and global levels.

a. Use scientific reasoning to interpret psychological phenomena.
b. Demonstrate psychology information literacy.
c. Engage in innovative and integrative thinking and problem solving.
d. Interpret, design, and conduct basic psychological research.
e. Incorporate sociocultural factors in scientific inquiry.

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/)

Altoona
Brad Pinter
Associate Professor of Psychology, Department Chair
Smith Building C128A
3000 Ivyside Park
Altoona, PA 16601
814-949-5507
tbp1@psu.edu

Brandywine
Joshua Marquit
Assistant Teaching Professor Psychology
25 Yearsley Mill Road
Media, PA 19063
610-892-1409
jdm53@psu.edu

Fayette
Elaine Barry
Associate Professor
2201 University Drive
Lemont Furnace, PA 15456
724-430-4284
esb12@psu.edu

Greater Allegheny
Advising Office
Academic Affairs
101 Frable Building
4000 University Drive
McKeesport, PA 15132
412-675-9140
GA-Academics@lists.psu.edu

Hazleton
Lisa Goguen
Psychology, B.S. (Altoona)

Associate Professor of Psychology
Memorial 103
Hazleton, PA 18202
570-450-3023
lms42@psu.edu

Lehigh Valley
Kevin Kelley
Psychology Program Coordinator
2809 Saucon Valley Road
Center Valley, PA 18034
610-285-5062
kjk13@psu.edu

Mont Alto
Robin Yaure
Associate HDFS Professor and Program Coordinator of HDFS & Psychology
112 Weistling Hall
Mont Alto, PA 17237
717-749-6210
r2y@psu.edu

New Kensington
Rick Harnish
Professor, Psychology
Engineering 122 A
3550 Seventh Street Road
New Kensington, PA 15068
724-334-6735
rjh27@psu.edu

Schuylkill
Cory Scherer
Interim Assistant Director of Academic Affairs/Psychology Program Coordinator
A201C 200 University Drive
Schuylkill Haven, PA 17972
570-385-6066
crs15@psu.edu

Scranton
Renae McNair
Assistant Teaching Professor
Dawson 203
Dunmore, PA 18512
570-963-2715
trw115@psu.edu

York
Mark A. Casteel
Professor of Psychology
210 Grumbacher Building (GISTC)
1031 Edgecomb Ave.
York, PA 17403
717-771-4028
mac13@psu.edu

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2020-21 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).

Science Option at Altoona Campus

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.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSYCH 100†</td>
<td>3</td>
<td>PSYCH 200-Level- Category Selection*2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 15 or 30‡</td>
<td>3</td>
<td>CAS 100‡</td>
<td>3</td>
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<td></td>
<td>PSU 3</td>
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<td>Science Option Selection Course</td>
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<td>General Education Course</td>
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<td>General Education Course (GQ)‡</td>
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<td>Elective</td>
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<tr>
<th>Second Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSYCH 200-Level- Category Selection*2</td>
<td>3</td>
<td>PSYCH 200-level Course</td>
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</tr>
<tr>
<td></td>
<td>STAT 200 (GQ)‡</td>
<td>4</td>
<td>PSYCH 301W</td>
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<td>General Education Course</td>
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<td>General Education Course</td>
<td>3</td>
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<tr>
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<td>Science Option Selection*1</td>
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<td>General Education Course</td>
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<tr>
<td></td>
<td>B.S. Option Course (Social Science)</td>
<td>3</td>
<td>B.S. Option Course (Natural Sciences; Quantification)</td>
<td>3</td>
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<td><strong>16</strong></td>
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<tr>
<th>Third Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>PSYCH 200-level Course</td>
<td>3</td>
<td>PSYCH 200-level Course</td>
<td>3</td>
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<tr>
<td></td>
<td>PSYCH 400-level Course</td>
<td>3</td>
<td>PSYCH 400-level Course</td>
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<tr>
<td></td>
<td>General Education Course</td>
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<td>General Education Course</td>
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<td>Science Option Course</td>
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<td>ENGL 202A‡</td>
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<td>General Education Course</td>
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<thead>
<tr>
<th>Fourth Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSYCH 400-level Course*2</td>
<td>3</td>
<td>PSYCH Capstone</td>
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<tr>
<td></td>
<td>Science Option Course*</td>
<td>3</td>
<td>PSYCH 400-Level Course*2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B.S. Option Course (Natural Sciences; Quantification)</td>
<td>3</td>
<td>Science Option Course</td>
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<tr>
<td></td>
<td>Elective</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>
### 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.

1 BS Science Option students must take 24 credits in science option courses. Consult Psychology Program Coordinator for a list of course selections.

2 Students must take 30 credits in PSYCH. Among these, students must take at least 15 credits at the 400-level and at least 3 credits in each of six categories: Learning and Cognition; Social and Personality Psychology; Biological Bases of Behavior; Developmental Psychology; Applied and Clinical Psychology; Capstone Experience. Consult the Psychology Program Coordinator for specific course options.

### Business Option at Altoona Campus

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 Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 100 (GS)†</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 15, 30, or ESL 15‡</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3 General Education Course (GQ)‡</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
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<td>3</td>
</tr>
<tr>
<td>Elective</td>
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<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

* 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

### Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 200-level Course</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200 (GQ)‡†</td>
<td>4</td>
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<tr>
<td>General Education Course</td>
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</tr>
<tr>
<td>Business Option Selection Course</td>
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<tr>
<td>B.S. Option Course (Social Science)</td>
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<td>3</td>
</tr>
</tbody>
</table>

| Total Credits | 16 | 16 |

#### Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits Spring</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>PSYCH 200-level Course ‡‡</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 400-level Course ‡‡</td>
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<tr>
<td>General Education Course</td>
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</tr>
<tr>
<td>General Education Course</td>
<td>3 Business Option Selection Course</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 202A‡†</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits | 16 | 16 |

#### Fourth Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 400-level Course</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Business Option Selection Course</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>B.S. Option Course (Natural Sciences; Quantification)</td>
<td>3 Business Option Selection Course</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits | 15 | 15 |

* 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.
BS Science Option students must take 24 credits in science option courses. Consult Psychology Program Coordinator for a list of course selections.

Students must take 30 credits in PSYCH. Among these, students must take at least 15 credits at the 400-level and at least 3 credits in each of six categories: Learning and Cognition; Social and Personality Psychology; Biological Bases of Behavior; Developmental Psychology; Applied and Clinical Psychology; Capstone Experience. Consult the Psychology Program Coordinator for specific course options.

Career Paths

Graduates of our program enter the workforce or pursue additional education in a variety of programs, including both Master’s and PhD programs in experimental, counseling, school, and clinical psychology.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE PSYCHOLOGY PROGRAM (http://altoona.psu.edu/academics/bachelors-degrees/psychology/handbook/)

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (http://altoona.psu.edu/academics/bachelors-degrees/psychology/handbook/)

Professional Resources

• American Psychology Association (http://www.apa.org/)
• Association for Psychological Science (https://www.psychologicalscience.org/)
• Psi Chi (https://www.psichi.org/)

Contact

Altoona
DIVISION OF EDUCATION, HUMAN DEVELOPMENT, AND SOCIAL SCIENCES
Elm Building 103
3000 Ivyside Park
Altoona, PA 16601
814-949-5756
alq177@psu.edu
http://altoona.psu.edu/academics/bachelors-degrees/psychology/request-information (http://altoona.psu.edu/academics/bachelors-degrees/psychology/request-information/)

Brandywine
25 Yearsley Mill Road
Media, PA 19063
610-892-1409
jdm53@psu.edu
http://brandywine.psu.edu/psychology (http://brandywine.psu.edu/psychology/)

Fayette
2201 University Drive
Lemont Furnace, PA 15456
724-430-4284
esb12@psu.edu
http://fayette.psu.edu/psychology (http://fayette.psu.edu/psychology/)

Greater Allegheny
101 Frable Building
4000 University Drive
McKeesport, PA 15132
412-675-9140
GA-Academics@lists.psu.edu
http://greaterallegheny.psu.edu/psychology-ba-or-bs (http://greaterallegheny.psu.edu/psychology-ba-or-bs/)

Hazleton
Memorial 103
Hazleton, PA 18202
570-450-3023
lms42@psu.edu
http://hazleton.psu.edu/psychology-degrees (http://hazleton.psu.edu/psychology-degrees/)

Lehigh Valley
2809 Saucon Valley Road
Center Valley, PA 18034
610-285-5062
kjk13@psu.edu
https://lehighvalley.psu.edu/academics/degrees/psychology (https://lehighvalley.psu.edu/academics/degrees/psychology/)

Mont Alto
112 Wiestling Hall
Mont Alto, PA 17237
717-749-6210
r2y@psu.edu
https://montalto.psu.edu/academics/bachelors/psychology-degree (https://montalto.psu.edu/academics/bachelors/psychology-degree/)

New Kensington
3550 Seventh Street Rd.
New Kensington, PA 15068
724-334-6735
rjh27@psu.edu
https://newkensington.psu.edu/ba-degree-information (https://newkensington.psu.edu/ba-degree-information/)

Schuylkill
ACADEMIC AFFAIRS
A201C 200 University Drive
Schuylkill Haven, PA 17972
570-385-6066
crs15@psu.edu
http://www.schuylkill.psu.edu/psychology (http://www.schuylkill.psu.edu/psychology/)

Scranton
113 Dawson Building
Dunmore, PA 18512
570-963-2715
trw115@psu.edu
http://worthingtonscranston.psu.edu/psychology

York
210 Grumbacher Building (GISTC)
1031 Edgecomb Ave.
York, PA 17403
717-771-4028
mac13@psu.edu

https://york.psu.edu/academics/baccalaureate/psychology