# PSYCHOLOGY, BS, GARDNER PSYCH RESEARCH SCHOLAR

## Introduction

Please click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/psychology/) to see Psychology department information.

The College of Liberal Arts and Sciences also offers a Gardner Psychology Research Scholars BA (http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/psychology/psychology-ba-gardner-psych-research-scholar/) degree.

The Gardner Psychology Research Scholars Program consists of a rigorous set of criteria centered around a research project working with a Psychology faculty mentor.

These degree requirements are subject to periodic revision by the academic department, and the College of Liberal Arts and Sciences reserves the right to make exceptions and substitutions as judged necessary in individual cases. Therefore, the College strongly urges students to consult regularly with their major advisor and CLAS advisor to confirm the best plans of study before finalizing them.

## Program Delivery

- This is an on-campus program.

## Declaring This Major

- Secure approval from Psychology Department Gardner Program Director.
- Click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/psychology/academic-policies-procedures/#policiestext) to go to information about declaring a major.

## General Requirements

To earn a degree, students must satisfy all requirements in each of the three areas below, in addition to their individual major requirements.

- CU Denver General Graduation Requirements (http://catalog.ucdenver.edu/cu-denver/undergraduate/graduation/)
- CU Denver Core Curriculum (http://catalog.ucdenver.edu/cu-denver/undergraduate/graduation-undergraduate-core-requirements/)
- College of Liberal Arts & Sciences Graduation Requirements (http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/graduationrequirementstext)
- Click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/academic-policies-procedures/) for information about Academic Policies

## Program Requirements

1. Students must complete a minimum of 57 credit hours, including a minimum of 28 PSYC credit hours and a minimum of 23 credit hours in ancillary course work.

2. Students must earn a minimum grade of C- (1.7) in all courses that apply to the major and must achieve a minimum of B (3.0) in the 3 Behavioral & Biomedical Sciences Research courses and must achieve a minimum cumulative major GPA of 2.5. All graded attempts in required and elective courses are calculated in the major GPA. Courses taken using P+/P/F or S/U grading cannot apply to major requirements.

3. Students must complete a minimum of 16 upper division (3000-level and above) PSYC credit hours with CU Denver faculty.

## Program Restrictions, Allowances and Recommendations

1. An experiential learning component is required and must be approved by the Bachelor of Science academic advisor. To fulfill the experiential learning requirement a student must have a minimum overall GPA of 2.5 or higher. Fulfilling this requirement with a project outside of the Psychology Department requires prior approval by the Bachelor of Science academic advisor. Independent study or internship credit hours taken outside of the Psychology Department will not count as Psychology credit hours.

2. Successful (final grade of B or better) completion of PSYC 4680 Behavioral & Biomedical Sciences Research Seminar, PSYC 4681 Behavioral & Biomedical Sciences Research Seminar II and PSYC 4780 Behavioral & Biomedical Sciences Research: Ethics & Issues fulfills the experiential learning requirement for the Bachelor of Science in Psychology department core graduation requirement. It is required for students to have instructor permission to enroll in both PSYC 4680 Behavioral & Biomedical Sciences Research Seminar and PSYC 4681 Behavioral & Biomedical Sciences Research Seminar II

3. Students with transfer credit for PSYC1005 that was awarded zero credits will need to take an additional three credit Psychology Elective course to reach the minimum credit hours required for the Psychology Major.

## Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1000</td>
<td>Introduction to Psychology I</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1005</td>
<td>Introduction to Psychology II</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2090</td>
<td>Statistics and Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2220</td>
<td>Biological Basis of Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3090</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 4054</td>
<td>Behavioral Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3104</td>
<td>Behavioral Genetics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3222</td>
<td>Principles of Learning and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3254</td>
<td>Introduction to Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3262</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3263</td>
<td>Hormones and Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete all of the following required courses: 19 hours

Complete two of the following Group A elective courses: 6 hours
PSYC 3264  Exercise, Brain and Behavior
PSYC 3265  Drugs, Brain and Behavior
PSYC 3724  Developmental Neuroscience
PSYC 3810  Neuropsychology
PSYC 3822  Aging, Brain and Behavior
PSYC 3832  Neural Basis of Learning
PSYC 4164  Psychology of Perception

Complete one of the following Group B elective courses: 3
PSYC 3205  Human Development I: Child Psychology
PSYC 3305  Abnormal Psychology
PSYC 3415  Experimental Social Psychology

Complete required ancillary coursework from Biology and Chemistry: 23
Biology (p. 2)
Chemistry (p. 2)
Upper Division Biology/ Chemistry electives (p. 2)

Complete Gardner Psychology Research Requirements: 1 6
PSYC/MARC 4680  Behavioral & Biomedical Sciences Research Seminar
PSYC/MARC 4681  Behavioral & Biomedical Sciences Research Seminar II 3
PSYC/MARC 4780  Behavioral & Biomedical Sciences Research: Ethics & Issues 2

Total Hours 57

1 Students must earn a minimum grade of B or better in all of the following courses. It is required for students to have instructor permission to enroll in both PSYC 4680 Behavioral & Biomedical Sciences Research Seminar and PSYC 4681 Behavioral & Biomedical Sciences Research Seminar II
2 Take in the Fall.
3 Take in the Spring.

Additional Research Requirements
• The faculty mentor will work with students to guide fulfillment of these co-curricular requirements
  • begin this course of study with at least 2 semesters remaining at CU Denver before graduation
  • find a CU Denver Psychology faculty member who will mentor this project
  • devote a minimum of 180 hours of work on this research project, completed during two semesters or more
  • write a scientific paper describing the research
  • present the results in an oral format
  • present the results in poster format

Biology

Code  Title  Hours
Take the following: 8
BIOL 2010  Organisms to Ecosystems (Gen Bio)
or BIOL 2031 Honors Organisms to Ecosystems (Gen Bio)
BIOL 2011  Organisms to Ecosystems Lab (Gen Bio)
or BIOL 2031 Honors Organisms to Ecosystems Lab (Gen Bio)
BIOL 2020  Molecules to Cells (Gen Bio)
or BIOL 2041 Honors Molecules to Cells (Gen Bio)

Chemistry

Code  Title  Hours
Take the following: 9
CHEM 2031  General Chemistry I
or CHEM 2031 Honors General Chemistry I
CHEM 2038  General Chemistry Laboratory I
or CHEM 2038 Honors General Chemistry Laboratory I
CHEM 2061  General Chemistry II
or CHEM 2061 Honors General Chemistry II Lecture
CHEM 2068  General Chemistry Laboratory II
or CHEM 2068 Honors General Chemistry Laboratory II

Upper Division Ancillary Electives

Code  Title  Hours
Take two of the following upper division level ancillary elective courses: 6
BIOL 3225  Human Physiology
BIOL 3244  Human Anatomy
BIOL 3445  Introduction to Evolution
BIOL 3611  General Cell Biology
BIOL 3621  Introduction to Immunology
BIOL 3650  General Microbiology
& BIOL 3651 and General Microbiology Lab
BIOL 3832  General Genetics
BIOL 4134  Human Genetics
BIOL 4165  Neurobiology
CHEM 3810  Biochemistry
CHEM 4810  General Biochemistry I
CHEM 4820  General Biochemistry II

To learn more about the Student Learning Outcomes for this program, please visit our website.

To review the Degree Map for this program, please visit our website (https://www.ucdenver.edu/student/advising/undergraduate/degree-maps/clas/).