Department of Psychology

Michael Tarr, Department Head
Erik Thiessen, Director of Undergraduate Education in Psychology, Baker Hall 342D
Emilie O'Leary, Undergraduate Coordinator, Baker Hall 339
emilie@andrew.cmu.edu
www.cmu.edu/dietrich/psychology (http://www.cmu.edu/dietrich/psychology/)

Can newborn infants perceive the world as we do, or is it just a blooming buzzing confusion? Do personality, beliefs and social factors influence health? How do scientists and young children make discoveries, and what abilities make these insights possible? How does brain activity reveal differences in thinking? Can computers think the way people do?

These are some of the questions that psychologists at Carnegie Mellon are trying to answer.

For the student who is majoring in Psychology, Cognitive Science or Neuroscience, studying with faculty who are on the leading edge of research on questions like the above can be a very exciting experience.

The Psychology Department at Carnegie Mellon has long been noted as one of the pioneering Psychology Departments in the world, particularly in such areas as cognitive psychology, cognitive science, social psychology, developmental psychology, cognitive neuroscience, and health psychology. The Psychology Department offers 5 majors: B.A. and B.S. degrees in Psychology, as well as a B.S. degree in Cognitive Science and together with the Department of Biological Sciences, a unified B.S. double major in Psychology and Biological Sciences, and an Intercollege major in Neuroscience.

The Major in Psychology

Psychology is a discipline that embraces both biological and social sciences. It is a science concerned with establishing principles and laws regarding the ways in which people think and behave through the scientific study of human behavior.

The orientation of the Carnegie Mellon Psychology curriculum is toward developing highly skilled and knowledgeable graduates. About half of our graduates go on to graduate or professional school. The remainder seek to expand their problem-oriented analytic skills to qualify themselves for job opportunities beyond those typically open to liberal arts students.

Majors in the department are expected not only to learn about findings already established by psychologists, but also to become proficient in the investigation and analysis of behavior. This includes observing behavior, formulating hypotheses, designing experiments to test these hypotheses, running experiments, performing statistical analysis, and writing reports.

The department has many resources for students to use in acquiring these skills. For instance, students interested in child development may be involved in the child development laboratory and observational facilities which are a part of the Carnegie Mellon Children's School which operates under the department's aegis. Students interested in health or clinical psychology might have opportunities to do internships in applied settings, and all Psychology majors have access to extensive computer facilities for data analysis and simulation work. The department also has a state of the art set of undergraduate research laboratories and computer clusters, and through the Scientific Imaging & Brain Research Center, a magnet is in use for conducting brain imaging studies using fMRI.

In addition to formal class work, students are encouraged to participate in research projects where they may register and receive credit for freshmen research experience course 85-198 Research Training in Psychology, 85-506 Reading in Psychology, Fall research experience in 85-507 Research in Psychology or Spring research experience in 85-508 Research in Psychology. In the research in psychology course, the student may work on an ongoing research projects or develop and carry out a new research project with a faculty member. There is university and departmental funding available to help support student-initiated research projects and student travel to present research results at scientific meetings and conferences. In the Readings courses, the student reads extensively on a particular topic. The faculty member and student meet to discuss the readings, and the student writes a paper on the topic selected. The Psychology Department Website (http://www.cmu.edu/dietrich/psychology/), provides descriptions of faculty research interests (http://www.cmu.edu/dietrich/psychology/research-areas/) that the student can use in determining who should be approached to supervise a particular research or reading project.

Students interested in gaining field work experience via a number of internship opportunities available to them can receive credit through 85-482 Internship in Psychology, 85-480 Internship in Clinical Psychology or 85-484 Practicum in Child Development. Clinical internships are available with a variety of clinical settings including the prestigious Western Psychiatric Institute and Clinic (the teaching hospital of the Department of Psychiatry at the University of Pittsburgh Medical School). During the internship, students get first-hand experience with different clinical populations. Developmental Practicum experience is available in the department-run CMU Children's School (http://www.cmu.edu/dietrich/psychology/centers-and-facilities/).

Bachelor of Arts in Psychology

Mathematics 10-20 units
21-111-21-112 Calculus I-II 20
or 21-120 Differential and Integral Calculus * 10
*Students who place out of 21-120 with AP credit will have successfully completed the calculus requirement

Statistics Sequence 9 units
36-309 Experimental Design for Behavioral & Social Sciences 9
or 85-309 Statistical Concepts and Methods for Behavioral and Social Science 9

Psychology Surveys 27 units
85-102 Introduction to Psychology * 9

Survey Courses - Complete Two Units
85-211 Cognitive Psychology 9
or 85-213 Human Information Processing and Artificial Intelligence 9

Advanced Courses 18 units
85-310 Research Methods in Cognitive Psychology 9
85-314 Cognitive Neuroscience Research Methods 9
85-320 Research Methods in Developmental Psychology 9
85-330 Analytic Research Methods 9
85-340 Research Methods in Social Psychology 9

Advanced Courses 18 units
Advanced psychology courses exist within four areas (cognitive, cognitive neuroscience, developmental, social and health psychology.) Any advanced content course or seminar in psychology or any psychology course higher than 85-349. Exceptions for the advanced course requirement are: 85-480, 85-482, 85-484, 85-506, 85-507, 85-508, 85-601, 85-602, 66-501, 66-502.

Psychology Breadth, Depth, and Application Electives 27 Units
Three courses from at least two of the Breadth, Depth and Application Categories. Please Consult the psychology department undergraduate website for approved Breadth Electives.

Depth
Any Psychology course between 85-300-85-499.

Application
85-198 Research Training: Psychology 9
85-294 Teaching Assistantship Var.
85-480 Internship in Clinical Psychology Var.
85-482 Internship in Psychology Var.
85-484 Practicum in Child Development Var.
85-507 Research in Psychology Var.
85-508 Research in Psychology Var.
85-601 Senior Thesis 9
85-602 Senior Thesis 9
66-501 Dietrich College Senior Honors Thesis I 9
66-502 Dietrich College Senior Honors Thesis II Must receive a B or higher; 9 units min

Breadth
Any 200 level Psychology survey course.
85-261 Psychopathology 9
85-271 Animal Minds 9
or
Choose from a list of courses found outside of the department with departments including Biological Sciences, History, English, HCI, Philosophy, Social Decision Sciences and Statistics. The elective list may change and for the most up to date list please either contact Emilie O'Leary at emlilier@andrew.cmu.edu or visit the psychology undergraduate website: www.cmu.edu/dietrich/psychology/undergraduate/current-students/academics

Computer Science Requirement
15-110 Principles of Computing 10
or 88-300 Programming and Data Analysis for Social Scientists

Natural Science Requirement (B.A. 18 units of which include 9 units of Gen Ed Science)
The B.A. in psychology requires one course beyond the General Education requirement in natural science.
These courses can be selected from the following areas:
- 03-XXX Biology*
- 09-XXX Chemistry
- 33-XXX Physics
* Given the growing relevance of biology to psychology, it is strongly recommended to take a course in Biological Sciences

Bachelor of Science in Psychology
Mathematics 10-20 units
21-111-21-112 Calculus I-II 20
or 21-120 Differential and Integral Calculus * 10

*Students who place out of 21-120 with AP credit will have successfully completed the calculus requirement

Statistics Sequence 9 units
36-309 Experimental Design for Behavioral & Social Sciences 9
or 85-309 Statistical Concepts and Methods for Behavioral and Social Science

Psychology Surveys 27 units
85-102 Introduction to Psychology * 9
Survey Courses - Complete Two Units
85-211 Cognitive Psychology 9
or 85-213 Human Information Processing and Artificial Intelligence
85-219 Biological Foundations of Behavior 9
85-221 Principles of Child Development 9
85-241 Social Psychology 9
85-251 Personality 9

Research Methods 18 units
Complete two courses.
85-310 Research Methods in Cognitive Psychology 9
85-314 Cognitive Neuroscience Research Methods 9
85-320 Research Methods in Developmental Psychology 9
85-330 Analytic Research Methods 9
85-340 Research Methods in Social Psychology 9

Advanced Courses 27 units
Advanced psychology courses exist within four areas (cognitive, cognitive neuroscience, developmental, social and health psychology.) Any advanced content course or seminar in psychology or any psychology course higher than 85-349. Exceptions for the advanced course requirement are: 85-480, 85-482, 85-484, 85-506, 85-507, 85-508, 85-601, 85-602, 66-501, 66-502.

Psychology Breadth, Depth, and Application Electives 27 Units
Three courses from at least two of the Breadth, Depth and Application Categories. Please Consult the psychology department undergraduate website for approved Breadth Electives.

Depth

Application
85-198 Research Training: Psychology 9
85-294 Teaching Assistantship Var.
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Breadth
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85-271 Animal Minds 9
or
Choose from a list of courses found outside of the department with departments including Biological Sciences, History, English, HCI, Philosophy, Social Decision Sciences and Statistics. The elective list may change and for the most up to date list please either contact Emilie O'Leary at emlilier@andrew.cmu.edu or visit the psychology undergraduate website: www.cmu.edu/dietrich/psychology/undergraduate/current-students/academics

Computer Science Requirement 10 units
15-110 Principles of Computing 10
or 88-300 Programming and Data Analysis for Social Scientists

NATURAL SCIENCE REQUIREMENT (B.S. 27 UNITS OF WHICH INCLUDE 9 UNITS OF GEN ED SCIENCE)
The B.S. in psychology requires two courses beyond the General Education requirement in natural science.
- 03-xxx Biology*
- 09-xxx Chemistry
- 33-xxx Physics
* Given the growing relevance of biology to psychology, it is strongly recommended to take at least one course in Biological Sciences

Additional Major in Psychology
In order to complete an additional major in Psychology, a student must fulfill all of the Psychology major requirements within the department –
in other words, the breadth requirement, computing requirement, three survey courses at the 200-level, two research methods courses, and two advanced courses. These courses must include at least 81 units, plus calculus prerequisites and the 36-200 statistics course or equivalent and 36-309. In addition, B.S. candidates must take the three-course science requirement and B.A. candidates complete one science course beyond the GenEd requirement.

Concentrations within the Psychology Major

Students who wish to focus their Psychology program on a specific area can do so either by the careful selection of Psychology elective courses focusing on their area of interest or by pursuing one of the following concentrations. Students must obtain a concentration form from the Undergraduate Program Coordinator, Emilie O’Leary, receive approval from their psychology faculty advisor, then returning the signed copy to Emilie in Baker Hall 339. The completion of a concentration will be recognized in the Psychology Graduation Program.

Health-Psychology Concentration

For Psychology majors who wish to have a focus of their study on Health Psychology, the following courses should be selected as part of their Psychology Major in conjunction with their Psychology advisor's approval.

As part of the natural science requirement, choose two of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-121</td>
<td>Modern Biology</td>
<td>9</td>
</tr>
<tr>
<td>03-132</td>
<td>Basic Science to Modern Medicine</td>
<td>9</td>
</tr>
<tr>
<td>03-133</td>
<td>Neurobiology of Disease</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the psychology breadth requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-219</td>
<td>Biological Foundations of Behavior</td>
<td>9</td>
</tr>
<tr>
<td>85-241</td>
<td>Social Psychology</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the psychology Research Methods requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-340</td>
<td>Research Methods in Social Psychology</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the advanced coursework in psychology requirement, at least two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-442</td>
<td>Health Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-443</td>
<td>Social Factors and Well-Being</td>
<td>9</td>
</tr>
<tr>
<td>85-446</td>
<td>Psychology of Gender</td>
<td>9</td>
</tr>
<tr>
<td>85-501</td>
<td>Stress, Coping and Well-Being</td>
<td>9</td>
</tr>
<tr>
<td>85-362</td>
<td>Seminar on Addiction</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the Breadth, Depth and Application requirement, at least one of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-480</td>
<td>Internship in Clinical Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-507</td>
<td>Research in Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-508</td>
<td>Research in Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-482</td>
<td>Internship in Psychology</td>
<td>9</td>
</tr>
</tbody>
</table>

or an additional advanced psychology seminar from the list above

Cognitive-Neuroscience Concentration

For Psychology majors who wish to have a focus of their study on Cognitive Neuroscience, the following courses should be selected as part of their Psychology Major in conjunction with their Psychology advisor's approval.

As part of the natural science requirement, choose two of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-121</td>
<td>Modern Biology</td>
<td>9</td>
</tr>
<tr>
<td>03-363</td>
<td>Systems Neuroscience</td>
<td>9</td>
</tr>
<tr>
<td>03-366</td>
<td>Biochemistry of the Brain</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the psychology Breadth requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-211</td>
<td>Cognitive Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-219</td>
<td>Biological Foundations of Behavior</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the psychology Research Methods requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-310</td>
<td>Research Methods in Cognitive Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-314</td>
<td>Cognitive Neuroscience Research Methods</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the advanced coursework in psychology requirement, at least two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-356</td>
<td>Music and Mind: The Cognitive Neuroscience of Sound</td>
<td>9</td>
</tr>
<tr>
<td>85-359</td>
<td>Introduction to Music Cognition Research</td>
<td>9</td>
</tr>
<tr>
<td>85-370</td>
<td>Perception</td>
<td>9</td>
</tr>
<tr>
<td>85-385</td>
<td>Auditory Perception: Sense of Sound</td>
<td>9</td>
</tr>
<tr>
<td>85-406</td>
<td>Autism: Psychological and Neuroscience Perspectives</td>
<td>9</td>
</tr>
<tr>
<td>85-407</td>
<td>Neuroscience of Concepts</td>
<td>9</td>
</tr>
<tr>
<td>85-414</td>
<td>Cognitive Neuropsychology</td>
<td>9</td>
</tr>
<tr>
<td>85-419</td>
<td>Introduction to Parallel Distributed Processing</td>
<td>9</td>
</tr>
<tr>
<td>85-429</td>
<td>Cognitive Brain Imaging</td>
<td>9</td>
</tr>
<tr>
<td>85-435</td>
<td>Neural and Cognitive Models of Adaptive Decisions</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the Breadth, Depth and Application requirement, at least one of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-507</td>
<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>85-508</td>
<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>88-342</td>
<td>The Neuroscience of Decision Making</td>
<td>9</td>
</tr>
</tbody>
</table>

Behavior and Developmental Psychology Concentration

For Psychology majors who wish to have a focus of their study on Behavior and Developmental Psychology, the following courses should be selected as part of their Psychology Major in conjunction with their Psychology advisor's approval.

As part of the B.S. science requirement, choose one of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-121</td>
<td>Modern Biology</td>
<td>9</td>
</tr>
<tr>
<td>03-364</td>
<td>Developmental Neuroscience</td>
<td>9</td>
</tr>
<tr>
<td>03-365</td>
<td>Neural Correlates of Learning and Memory</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the psychology Breadth requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>85-211</td>
<td>Cognitive Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-221</td>
<td>Principles of Child Development</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the psychology Research Methods Requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-310</td>
<td>Research Methods in Cognitive Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-320</td>
<td>Research Methods in Developmental Psychology</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the advanced coursework in psychology requirement, at least two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-350</td>
<td>Psychology of Prejudice</td>
<td>9</td>
</tr>
<tr>
<td>85-352</td>
<td>Evolutionary Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-354</td>
<td>Infant Language Development</td>
<td>9</td>
</tr>
<tr>
<td>85-363</td>
<td>Attention, Its Development and Disorders</td>
<td>9</td>
</tr>
<tr>
<td>85-390</td>
<td>Human Memory</td>
<td>9</td>
</tr>
<tr>
<td>85-408</td>
<td>Visual Cognition</td>
<td>9</td>
</tr>
<tr>
<td>85-406</td>
<td>Autism: Psychological and Neuroscience Perspectives</td>
<td>9</td>
</tr>
<tr>
<td>85-438</td>
<td>Educational Goals, Instruction, and Assessment</td>
<td>9</td>
</tr>
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As part of the Breadth, Depth and Application requirement, at least two of the following

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<tbody>
<tr>
<td>85-294</td>
<td>Teaching Assistantship</td>
<td>Var.</td>
</tr>
<tr>
<td>85-484</td>
<td>Practicum in Child Development</td>
<td>Var.</td>
</tr>
<tr>
<td>85-507</td>
<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>85-508</td>
<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>76-420</td>
<td>The Cognition of Reading and Writing</td>
<td>9</td>
</tr>
<tr>
<td>05-418</td>
<td>Design Educational Games</td>
<td>12</td>
</tr>
<tr>
<td>57-331</td>
<td>Principles of Education</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the advanced psychology seminar from the list above

Cognitive Psychology Concentration

For Psychology majors who wish to have a focus of their study be on Cognitive Psychology and/or Cognitive Modeling, the following courses should be selected as part of their Psychology Major in conjunction with their Psychology advisor's approval.

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<tr>
<td>85-356</td>
<td>Music and Mind: The Cognitive Neuroscience of Sound</td>
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<td>Var.</td>
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<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>88-342</td>
<td>The Neuroscience of Decision Making</td>
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</table>

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<td>Modern Biology</td>
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<tbody>
<tr>
<td>85-211</td>
<td>Cognitive Psychology</td>
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</table>

As part of the psychology Research Methods requirement:  
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<tbody>
<tr>
<td>85-310</td>
<td>Research Methods in Cognitive Psychology</td>
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<tr>
<td>85-390</td>
<td>Human Memory</td>
<td>9</td>
</tr>
<tr>
<td>85-395</td>
<td>Applications of Cognitive Science</td>
<td>9</td>
</tr>
<tr>
<td>85-406</td>
<td>Autism: Psychological and Neuroscience Perspectives</td>
<td>9</td>
</tr>
<tr>
<td>85-407</td>
<td>Neuroscience of Concepts</td>
<td>9</td>
</tr>
<tr>
<td>85-412</td>
<td>Cognitive Modeling</td>
<td>9</td>
</tr>
<tr>
<td>85-414</td>
<td>Cognitive Neuropsychology</td>
<td>9</td>
</tr>
<tr>
<td>85-419</td>
<td>Introduction to Parallel Distributed Processing</td>
<td>9</td>
</tr>
<tr>
<td>85-421</td>
<td>Language and Thought</td>
<td>9</td>
</tr>
<tr>
<td>85-429</td>
<td>Cognitive Brain Imaging</td>
<td>9</td>
</tr>
<tr>
<td>85-435</td>
<td>Neural and Cognitive Models of Adaptive Decisions</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the Breadth, Depth and Application requirement, at least one of the following:  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-507</td>
<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>85-508</td>
<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>76-420</td>
<td>The Cognition of Reading and Writing: Introduction to a Social/Cognitive Process</td>
<td>9</td>
</tr>
<tr>
<td>05-391</td>
<td>Designing Human Centered Software</td>
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</tr>
<tr>
<td>05-413</td>
<td>Human Factors</td>
<td>9</td>
</tr>
<tr>
<td>80-305</td>
<td>Decision Theory</td>
<td>9</td>
</tr>
<tr>
<td>80-380</td>
<td>Philosophy of Language</td>
<td>9</td>
</tr>
<tr>
<td>80-484</td>
<td>Language and Thought</td>
<td>9</td>
</tr>
</tbody>
</table>

Or an additional advanced psychology seminar

Social-Personality Psychology Concentration  
For Psychology majors who wish to have a focus of their study be on Social and/or Personality Psychology, the following courses should be selected as part of their Psychology Major in conjunction with their Psychology advisor’s approval.

As part of the Psychology Breadth requirement:  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-241</td>
<td>Social Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-251</td>
<td>Personality</td>
<td>9</td>
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</table>

As part of the Psychology Research Methods requirement:  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-340</td>
<td>Research Methods in Social Psychology</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the advanced coursework in psychology requirement, at least two of the following:  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-350</td>
<td>Psychology of Prejudice</td>
<td>9</td>
</tr>
<tr>
<td>85-357</td>
<td>Navigating Race and Identity in America: The Role of Psychology in Racial Inter</td>
<td>9</td>
</tr>
<tr>
<td>85-358</td>
<td>Pro-Social Behavior</td>
<td>9</td>
</tr>
<tr>
<td>85-375</td>
<td>Crosscultural Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-377</td>
<td>Attitudes and Persuasion</td>
<td>9</td>
</tr>
<tr>
<td>85-443</td>
<td>Social Factors and Well-Being</td>
<td>9</td>
</tr>
<tr>
<td>85-444</td>
<td>Relationships</td>
<td>9</td>
</tr>
<tr>
<td>85-446</td>
<td>Psychology of Gender</td>
<td>9</td>
</tr>
<tr>
<td>85-501</td>
<td>Stress, Coping and Well-Being</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the Breadth, Depth and Application requirement, at least one of the following:  
<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>85-507</td>
<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>85-508</td>
<td>Research in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>85-482</td>
<td>Internship in Psychology</td>
<td>Var.</td>
</tr>
<tr>
<td>05-320</td>
<td>Social Web</td>
<td>12</td>
</tr>
</tbody>
</table>

Clinical/Counseling Psychology Concentration  
For Psychology majors who wish to have a focus of their study be on Clinical/Counseling Psychology, the following courses should be selected as part of their Psychology Major in conjunction with their Psychology advisor’s approval.

As part of the Psychology Breadth requirement at least one of the following:  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-241</td>
<td>Social Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-251</td>
<td>Personality</td>
<td>9</td>
</tr>
</tbody>
</table>

Required additional coursework:  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-261</td>
<td>Psychopathology</td>
<td>9</td>
</tr>
<tr>
<td>85-422</td>
<td>Clinical Psychology: Science and Practice</td>
<td>9</td>
</tr>
<tr>
<td>85-480</td>
<td>Internship in Clinical Psychology</td>
<td>Var.</td>
</tr>
</tbody>
</table>

As part of the Psychology Research Methods requirements:  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-340</td>
<td>Research Methods in Social Psychology</td>
<td>9</td>
</tr>
</tbody>
</table>

As part of the advanced coursework in psychology requirement, at least two of the following:  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>85-375</td>
<td>Crosscultural Psychology</td>
<td>9</td>
</tr>
<tr>
<td>85-377</td>
<td>Attitudes and Persuasion</td>
<td>9</td>
</tr>
<tr>
<td>85-406</td>
<td>Autism: Psychological and Neuroscience Perspectives</td>
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<td>Psychology of Gender</td>
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</tr>
<tr>
<td>85-501</td>
<td>Stress, Coping and Well-Being</td>
<td>9</td>
</tr>
</tbody>
</table>

Neuroscience Major  
The Psychology Department at Carnegie Mellon University has a major focus on the role of the brain and nervous system in cognition and behavior, including biological approaches involving the health impact that arises from the interaction of behavior with the nervous, endocrine, and immune systems. These interests are manifested in faculty research (http://www.cmu.edu/dietrich/psychology/research-areas/), departmental and university centers that operate from or heavily involve the department (e.g., the Center for Cognitive Brain Imaging (http://www.ccbi.cmu.edu/), and the Center for the Neural Basis of Cognition (http://www.cnb.cmu.edu/)) as well as undergraduate coursework (http://www.cmu.edu/dietrich/psychology/undergraduate/) and graduate coursework.

For undergraduates, there are a number of ways in which students with interest in these approaches can pursue that interest in an organized fashion. Major requirements for the Bachelor of Science in Neuroscience can be found under Intercollege Programs (http://coursescatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/#bachelorsdegreeinneurosciencetext).

Carnegie Mellon University recently launched BrainHub – an initiative designed to leverage its core strengths in cognitive science, engineering, and computer science, and our emerging excellence in biological sciences, to harness the technology that helps the world explore brain and behavior. Students will be able to take advantage of exciting opportunities such as lectures hosted on various topics, newly funded CMU campus research projects trying to answer pressing questions in brain science and the many global partnerships with other institutions all with the same motivating goal to enhance and increase research in brain sciences.

Finally, for any interested student, there is a Minor in Cognitive Neuroscience (http://coursescatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofpsychology/#minortext) available through the Psychology department.

The Major in Cognitive Science  
The Psychology Department offers a B.S. degree in Cognitive Science. The field of cognitive science has grown out of increasingly active interaction among psychology, linguistics, artificial intelligence, philosophy, and neuroscience. All of these fields share the goal of understanding intelligence. By combining these diverse perspectives, students of cognitive science are able to understand cognition at a deep level. Because this
The Cognitive Science major is only offered as a B.S. degree. Candidates should complete the two-semester calculus sequence 21-120/21-256 (or alternatively 21-120/21-122)* and a statistics sequence (36-200 or equivalent and if possible, 36-309). In addition, candidates are required to complete 15-112 Fundamentals of Programming and Computer Science, as their departmental computing course.

Because of the number and sequential nature of required courses, prospective Cognitive Science majors are encouraged to begin course work for the major prior to junior year. In particular, completion of calculus, 36-200, and 85-211 or 85-213 before the junior year will enable students to complete 85-310 and 36-309 and by the Fall semester of their sophomore year and, if interested, to then take advantage of research opportunities in the department.

The 3-Semester sequence 21-111/21-112/21-256 may be substituted by students who have already taken 21-111 before deciding on the major.

**Computing Prerequisite**

- 15-112 Fundamentals of Programming and Computer Science

**Mathematics**

- 21-111-21-112 Calculus I-II: 29-30 units

or

- 21-120 Differential and Integral Calculus: 10 units

- 21-127 Concepts of Mathematics: 10 units

*Students who place out of 21-120 will have fulfilled the calculus requirement.

**Statistics Sequence**

- 36-200 Reasoning with Data: 9 units

- 36-309 Experimental Design for Behavioral & Social Sciences: 9 units

or

- 85-309 Statistical Concepts and Methods for Behavioral and Social Sciences: 9 units

**Computational/Cognitive Modeling Core**

- Two of the following: 29-31 units
  - 15-122 Principles of Imperative Computation: 10 units
  - 15-150 Principles of Functional Programming: 10 units
  - 15-251 Great Ideas in Theoretical Computer Science: 12 units

- Plus one of the following: 9 units
  - 85-412 Cognitive Modeling
  - 85-419 Introduction to Parallel Distributed Processing
  - 85-435 Neural and Cognitive Models of Adaptive Decisions

**Cognitive Psychology Core**

- 27 units
  - 85-211 Cognitive Psychology: 9 units
  - or 85-213 Human Information Processing and Artificial Intelligence
  - 85-310 Research Methods in Cognitive Psychology: 9 units
  - or 85-314 Cognitive Neuroscience Research Methods

- Plus two of the following (one of which must be 85-3xx or 85-4xx): 9 units
  - 85-219 Biological Foundations of Behavior
  - 85-359 Introduction to Music Cognition Research
  - 85-370 Perception
  - 85-390 Human Memory
  - 85-395 Applications of Cognitive Science
  - 85-408 Visual Cognition
  - 85-414 Cognitive Neuropsychology

**Cognitive Science Concentration**

(3 courses, concentration approval required)

These three courses are chosen in conjunction with your advisor to form a coherent area of concentration from the course list under ‘Cognitive Science Concentration’ in the current Undergraduate Catalog. Before proceeding with the choice of courses, students must fill out the concentration form, obtained from Emilie O’Leary in Baker Hall 339, with a description of the concentration area and the planned set of three courses. Courses not represented on the list may, with pre-approval of advisor and department, be used to satisfy part of this requirement. The three courses are not required to be within any single category below but be coherent within the major and the focus may vary across disciplinary boundaries. Courses taken for the major requirements can not be double counted in the concentration.

**Computer Science**

- 21-120 Completion of Calculus, 36-200 and 85-211 or 85-213

**Psychology**

- 85-219 Biological Foundations of Behavior
- 85-352 Evolutionary Psychology
- 85-354 Infant Language Development
- 85-370 Perception
- 85-375 Crosscultural Psychology
- 85-380 In Search of Mind: The History of Psychology
- 85-390 Human Memory
- 85-392 Human Expertise
- 85-395 Applications of Cognitive Science
- 85-406 Autism: Psychological and Neuroscience Perspectives
- 85-412 Cognitive Modeling
- 85-414 Cognitive Neuropsychology
- 85-419 Introduction to Parallel Distributed Processing
- 85-421 Language and Thought
- 85-423 Cognitive Development
- 85-426 Learning in Humans and Machines
- 85-429 Cognitive Brain Imaging

**Philosophy**

- 80-210 Logic and Proofs
- 80-211 Logic and Mathematical Inquiry
- 80-220 Philosophy of Science
- 80-254 Analytic Philosophy
- 80-255 Pragmatism
- 80-270 Problems of Mind and Body: Meaning and Doing
- 80-310 Formal Logic
- 80-311 Undecidability and Incompleteness
- 80-314 Causal Discovery, Statistics, and Machine Learning

**Linguistics**

- 80-180 Nature of Language
- 80-280 Linguistic Analysis
- 80-281 Language and Thought
- 80-315 Modal Logic
- 76-385 Introduction to Discourse Analysis
Degree Requirements:

Respective Catalog pages.

coursecatalog.web.cmu.edu/melloncollegeofscience/

coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/

depending on a student’s home college (DC or MCS), General Education

requirements will be different. GenEd requirements for

Students in the Mellon College of Science will earn a Bachelor of

Sciences. Students in the Dietrich College of Humanities and

Social Sciences will earn a Bachelor of Science in Psychology and Biological

Note:

This major is intended to reflect the interdisciplinary nature of current

research in the fields of biology and psychology, as well as the national

interest in some professions to seek individuals broadly trained in both the

social and natural sciences.

Note: Students entering from the Dietrich College of Humanities and

Social Sciences will earn a Bachelor of Science in Psychology and Biological

Sciences. Students in the Mellon College of Science will earn a Bachelor of

Science in Biological Sciences and Psychology.

Depending on a student’s home college (DC or MCS), General Education

(GenEd) requirements will be different. GenEd requirements for DC (http://
coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/

#hampssgeneraleducationprogram160) and MCS (http://
coursecatalog.web.cmu.edu/melloncollegeofscience/) are found on their

respective Catalog pages.

Degree Requirements:

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<thead>
<tr>
<th>Biological Sciences</th>
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<tr>
<td>03-151</td>
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<tr>
<td>03-121</td>
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</tr>
<tr>
<td>or 03-122</td>
<td>9</td>
</tr>
<tr>
<td>03-220</td>
<td></td>
</tr>
<tr>
<td>or 03-221</td>
<td>9</td>
</tr>
<tr>
<td>03-231</td>
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<tr>
<td>03-412</td>
<td>1</td>
</tr>
<tr>
<td>03-xxx</td>
<td>9</td>
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</tbody>
</table>

Additional Major in Cognitive Science

In order to complete a double major in Cognitive Science, a student must

fulfill the major requirements as listed under the Cognitive Science major.

These include the programming requirement (15-112), the Mathematics

and Statistics prerequisites, Computational/Cognitive Modeling Core,

The Cognitive Psychology Core, the Cognitive Science Concentration

Requirement, and the Supplementary Science Requirement. Students will

be assigned a department advisor to help plan their program of studies in

Cognitive Science.

Unified Double Major in Psychology & Biological Sciences

Veronica Hinman, Department Head, Biological Sciences

Michael Tarr, Department Head, Psychology

This major is intended to reflect the interdisciplinary nature of current

research in the fields of biology and psychology, as well as the national

interest in some professions to seek individuals broadly trained in both the

social and natural sciences.

Chemistry

09-105 Introduction to Modern Chemistry I 10

09-106 Modern Chemistry II 10

09-217 Organic Chemistry I 9

or 09-219 Modern Organic Chemistry

09-218 Organic Chemistry II 9

or 09-220 Modern Organic Chemistry II

09-207 Techniques in Quantitative Analysis 9-12

or 09-221 Laboratory I: Introduction to Chemical Analysis

09-208 Techniques for Organic Synthesis and Analysis 9-12

or 09-222 Laboratory II: Organic Synthesis and Analysis

Total Science units 63-65

2 MCS students must also complete 33-122 Physics II for Biological Sciences &

Chemistry Students.

Psychology Courses

85-102 Introduction to Psychology 9

85-219 Biological Foundations of Behavior 9

85-2xx Survey Psychology Courses 18

85-310 Research Methods in Cognitive Psychology 9

or 85-340 Research Methods in Social Psychology

or 85-320 Research Methods in Developmental Psychology

or 85-314 Cognitive Neuroscience Research Methods

or 85-330 Analytic Research Methods

85-3xx Advanced Psychology Electives 18

Total Psychology units 63

* Excluding 85-261 Psychopathology

Additional Advanced Elective 9 units

(Choose one of the following courses)

85-3xx Advanced Psychology Elective 9

or 03-xxx Advanced Biology Elective 9

Additional Laboratory or Research Methods 9-12 units

(Choose one of the following courses)

03-344 Experimental Biochemistry 12

03-345 Experimental Cell and Developmental Biology 12

03-346 Experimental Neuroscience 12

85-310 Research Methods in Cognitive Psychology 9

85-314 Cognitive Neuroscience Research Methods

85-320 Research Methods in Developmental Psychology 9

85-340 Research Methods in Social Psychology

Students entering from the Dietrich College of Humanities and

Social and Natural Sciences.

These include the programming requirement (15-112), the Mathematics

and Statistics prerequisites, Computational/Cognitive Modeling Core,

The Cognitive Psychology Core, the Cognitive Science Concentration

Requirement, and the Supplementary Science Requirement. Students will

be assigned a department advisor to help plan their program of studies in

Cognitive Science.

In order to complete a double major in Cognitive Science, a student must

fulfill the major requirements as listed under the Cognitive Science major.

These include the programming requirement (15-112), the Mathematics

and Statistics prerequisites, Computational/Cognitive Modeling Core,

The Cognitive Psychology Core, the Cognitive Science Concentration

Requirement, and the Supplementary Science Requirement. Students will

be assigned a department advisor to help plan their program of studies in

Cognitive Science.

These can be selected from any one of the following areas.

03-xxx Biology *

09-xxx Chemistry

33-xxx Physics

* Those interested in a cognitive neuroscience focus are recommended to take

biology courses, including if possible, 03-362, or 03-363.
Elective Units | Units  
---|---
Free Electives | 33-36
MCS Nontechnical Breadth or DC General Education requirements | 36-48
Total Elective units | 69-84

**Minimum number of units required for degree:** 360

### Minors in Psychology and Cognitive Neuroscience

#### Minor in Psychology | 72 units

I. Introductory course
- **85-102** Introduction to Psychology * 9
*A survey course can be taken in place of 85-102.

II. Area Survey courses
Complete two courses.
- **85-211** Cognitive Psychology 9
- or **85-213** Human Information Processing and Artificial Intelligence 9
- **85-219** Biological Foundations of Behavior 9
- **85-221** Principles of Child Development 9
- **85-241** Social Psychology 9
- **85-251** Personality 9

III. Statistics
- **36-200** Reasoning with Data 9
- **36-309** Experimental Design for Behavioral & Social Sciences 9
- or **85-309** Statistical Concepts and Methods for Behavioral and Social Science 9

Total 27 units

Upper Level Courses
Complete three courses from categories IV and V, with at least one course from each.

IV. Research Methods Courses * (minimum 9 units)
- **85-310** Research Methods in Cognitive Psychology 9
- **85-314** Cognitive Neuroscience Research Methods 9
- **85-320** Research Methods in Developmental Psychology 9
- **85-330** Analytic Research Methods 9
- **85-340** Research Methods in Social Psychology 9

V. Advanced courses (minimum 9 units)
Advanced psychology courses exist within four areas (cognitive, cognitive neuroscience, developmental, social and health psychology.) Any advanced content course or seminar in psychology or any psychology course higher than 85-350. Exceptions for the advanced course requirement are: 85-480, 85-482, 85-484, 85-485, 85-506, 85-507, 85-508, 85-601, 85-602, 66-501, 66-502.

#### Minor in Cognitive Neuroscience | 63 units

The minor in Cognitive Neuroscience offered by the Department of Psychology is similar to the Neuroscience Minor offered by the Department of Biological Sciences. The differences between the two forms of the minor are determined by one required course, and additionally, by the students' choice of distribution electives. The requirements for the Cognitive Neuroscience Minor include 7 courses: four required courses, and three distribution and elective courses.

Because of the curriculum within this minor may overlap with some degree requirements, no more than 2 courses fulfilling Neuroscience or Cognitive Neuroscience Minor requirements may count towards a student's major or other minor requirements.

#### Cognitive Neuroscience Curriculum

**Required Coursework**
- **03-121** Modern Biology 9
- **03-363** Systems Neuroscience 9
- **85-219** Biological Foundations of Behavior 9
- **85-211** Cognitive Psychology 9
- or **85-213** Human Information Processing and Artificial Intelligence 9

**Distribution Requirements**

Three courses, including at least 1 from each of the following categories

- **Approaches to Cognitive Neuroscience**
  - **85-314** Cognitive Neuroscience Research Methods 9
  - **85-412** Cognitive Modeling 9
  - **85-414** Cognitive Neuropsychology 9
  - **85-419** Introduction to Parallel Distributed Processing 9
  - **85-429** Cognitive Brain Imaging 9
  - **15-386** Neural Computation 9
  - **15-883** Computational Models of Neural Systems 12
- **36-746** Statistical Methods for Neuroscience and Psychology 12

**Cognitive Neuroscience Electives**
- **03-133** Neurobiology of Disease 9
- **03-362** Cellular Neuroscience 9
- **03-364** Developmental Neuroscience 9
- **03-365** Neural Correlates of Learning and Memory 9
- **85-356** Music and Mind: The Cognitive Neuroscience of Sound 9
- **85-370** Perception 9
- **85-385** Auditory Perception: Sense of Sound 9
- **85-390** Human Memory 9
- **85-406** Autism: Psychological and Neuroscience Perspectives 9

### The Honors Program

The Honors Program provides recognition of outstanding performance by students in the Psychology department. Participation enables students to pursue their own research ideas through completion of an honors thesis. The honors thesis is completed during the senior year. By completing a thesis, the student earns 18 units of credit and qualifies for graduation with "College Honors." To qualify for the Honors Program, the student must maintain a quality point average of at least 3.50 in the major and 3.25 overall. More information on the Honors program can be found here (http://www.cmu.edu/dietrich/undergraduate/programs/shp/).

A year long departmental senior thesis course exists (66-501 and 66-502) for students interested in pursuing a sizable research project who do not qualify for the honors program. More information can be obtained by contacting Emilie O'Leary at emilier@andrew.cmu.edu.

### Faculty

**JOHN R. ANDERSON**, Richard King Mellon University Professor of Psychology and Computer Science - Ph.D., Stanford University; Carnegie Mellon, 1978-

**SHARON CARVER**, Teaching Professor, Psychology; Associate Dean of Student Affairs, Dietrich College - Ph.D., Carnegie Mellon University; Carnegie Mellon, 1993-

**JESSICA CANTLON**, Ronald J. and Mary Ann Zdrojkowski Associate Professor of Developmental Neuroscience - Ph.D., Duke University; Carnegie Mellon, 2007-

**MARLENE BEHRMANN**, Thomas S. Baker Univ Professor of Psychology and Computer Science - Ph.D., Stanford University; Carnegie Mellon, 1978-

**KASEY CRESWELL**, Associate Professor - Ph.D., State University of New York at Buffalo; Carnegie Mellon, 2001-

**DAVID CRESWELL**, Associate Professor - Ph.D., University of California, Los Angeles; Carnegie Mellon, 2012-

**CHANTE COX-BOYD**, Associate Teaching Professor – Ph.D., University of North Carolina at Chapel Hill; Carnegie Mellon, 1999-

**SHELDON COHEN**, Robert E. Doherty University Professor of Psychology – Ph.D., New York University; Carnegie Mellon, 1982-

**JASON COPE**, Associate Teaching Professor - Ph.D., University of North Carolina at Chapel Hill; Carnegie Mellon, 2007-

**KASEY CRESWELL**, Associate Professor - Ph.D., University of Pittsburgh; Carnegie Mellon, 2012-

**BROOKE C. FEENEY**, Professor of Psychology - Ph.D., State University of New York at Buffalo; Carnegie Mellon, 2001-

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