Research Psychology Program (BS)

Pre-Medical Concentration

The Bachelor of Science Program in Research Psychology is designed for students who are preparing for doctoral level study or professional medical education. The curriculum is intended to develop in students the general skills and knowledge of psychology principles expected in research-oriented graduate programs. The general concentration prepares students for study in areas such as animal behavior, biological psychology, clinical psychology, cognition, developmental psychology, learning, social psychology, personality, and other areas emphasizing empirical research. The pre-medical concentration is tailored to serve students interested in attending medical school.

Prerequisites: MTH 111 (MTH 118 or MTH 121 strongly recommended for those planning to attend graduate school or medical school).

Requirements:

A. All requirements of the College of Arts and Sciences (CAS) Bachelor of Science degree, including General Education requirements. (See reverse page) General education requirements in the natural sciences may not include courses in psychology.

B. Completion of the Pre-Medical Concentration includes thirty-eight credits in psychology:

  a. Foundation courses (15 credits)  
     PSY 100: Principles of Psychology  
     PSY 319: Principles of Research Design  
     PSY 322: Basic Statistics and Probability  
     PSY 323: Advanced Research and Writing  

  b. Core courses (15 credits)  
     PSY 309: Abnormal Psychology  
     PSY 313: Developmental Psychology  
     PSY 315: Survey of Social Psychology  
     PSY 316: Biological Psychology  
     PSY 317: Cognitive Psychology  

  c. Advanced research courses (8 credits)  
     PSY 329: Advanced Research Topics in Psy. (Taken Twice)  

  d. Biology (16 credits)  
     BIO 111: Organismal Biology  
     BIO 113: Principles of Biology  
     BIO 326: Cell Biology  
     BIO 328: Genetics  

  e. Chemistry (19-22 credits)  
     CHM 260: Principles of Chemistry I  
     CHM 261: General Chemistry Laboratory  
     CHM 262: Principles of Chemistry II  
     CHM 263: Introductory Quantitative Analysis Laboratory  
     CHM 330: Organic Chemistry I  
     CHM 331: Organic Chemistry Laboratory I  
     CHM 332: Organic Chemistry II  
     CHM 333: Organic Chemistry Laboratory II  
     CHM 350: Fundamentals of Biochemistry
OR
CHM 450: Biochemistry I                       _____________  ______
AND CHM 452: Biochemistry II

f. **Physics (8-10 credits)**
   PHY 143: College Physics I
   AND PHY 145: College Physics II
   _____________  ______
   OR
   PHY 243: Principles of Physics I
   AND PHY 245: Principles of Physics II  
   _____________  ______

OR

**Mathematics (0-4 credits)**
MTH 120: Pre-Calculus Mathematics
OR placement into MTH 121: Calculus I

h. **Health care administration (3 credits)**
   HCR 362: Cultural Competence in Health Care
   _____________  ______

i. **Philosophy (3 credits)**
   PHL 168: Philosophy of Bioethics
   _____________  ______

j. **Sociology (3 credits)**
   SOC 100: Introduction to Sociology
   _____________  ______

k. Electives, chosen with the advisor, which may include:
   BIO 167, BIO 168, BIO 405, BIO 406, BIO 418, BIO 419,
   BIO 425, BIO 432, CHM 451, CHM 453, PHS 315

l. Satisfactory performance on departmental comprehensive educational evaluation.

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**College of Arts and Sciences (CAS) Bachelor of Science degree and General Education requirements**

The Bachelor of Science degree is awarded in recognition of study in certain concentration programs, generally requiring more than 40 credits in one subject area, in conjunction with study of the liberal arts.

**A.** Completion of the College of Arts and Sciences general education requirements.

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<tr>
<th>Requirement</th>
<th>Semester Completed</th>
<th>Credits</th>
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<tbody>
<tr>
<td>1. First Year Experience (UNV 100)</td>
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<td>2. English Comp (ENG 112, EHS 120, HON 156, or equiv.)</td>
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<td>3. Humanities – 6 credits</td>
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<td>4. Social Science – 6 credits</td>
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<td>5. Global Studies – 3 credits</td>
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<td>6. Fine Arts – 3 credits</td>
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<td>7. Health and Wellbeing – 3 credits</td>
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<td>8. Financial/Quantitative Literacy – 3 credits</td>
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<td>9. Natural Science with Lab – 4 credits</td>
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<td>10. Technology – 3 credits</td>
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<td>11. Capstone – 3 credits</td>
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**B.** Completion of at least 124 credits, including at least 33 in upper-division courses (courses numbered 300 or higher) from any discipline.

**C.** Completion of concentration (major program) requirements in a concentration approved for the Bachelor of Science degree. Concentration programs offered for the Bachelor of Science degree include general programs and Teacher’s Certificate programs. For a complete listing of CAS concentration programs, see the Guide to Programs and Degrees in the section of Programs of Study. A student may choose to fulfill the requirements of two or more concentration programs concurrently.

A cumulative grade point average of C (2.0) or better in the concentration program and in the total work at the University of Michigan-Flint.