

Ψ DEPARTMENT OF PSYCHOLOGICAL SCIENCES: BACHELOR OF SCIENCE GRADUATION PLAN Ψ
APPROVED SCIENCE COURSE TRACKS

Psychology Bachelor of Science majors must complete at least 12 credit hours of approved science coursework in one of the following five approved areas: Biological Sciences, Computer Science, Chemistry, Statistics or Mathematics.

- *Course grades must be C or better. **No C- or below grades will be accepted** in the Psych BS science tracks.*
- *Although Psychology BS majors who are also majoring or minoring in Biological Sciences may be allowed to count grades of C- or better toward their Bio major or minor requirements, C- grades will not be accepted in coursework counting toward the Psych BS approved Biological Sciences track.*
- *Psych BS students will not be required to repeat Biology courses with grades of C- or below as long as they earn at least 12 hours of Bio coursework that is applicable to the Psych BS science track with a C or better.*
- *Students may count transfer coursework toward the Psych BS approved science tracks. Requests for course substitutions must be approved by the Psychology department.*

BIOLOGICAL SCIENCES TRACK (12+ hours)

Required core (5 hours)		Hours	Pre-requisites and Notes
<input type="checkbox"/> Bio 1500	Intro to Biological Systems w/ Lab	5	Pre-req: Math 1100
--OR-- substitute both below (see note for grades required)			
<input type="checkbox"/> Bio 1010	General Principles of Biology	3	Note: Grade must be A- or better; Pre- or Co-req: Math 1100
<input type="checkbox"/> Bio 1020	General Biology Lab	2	Note: Grade must be A- or better; Pre- or Co-req: BIO 1010
Additional approved coursework (at least 7 credit hours from list below)			
<input type="checkbox"/> Bio 2200	General Genetics	4	Pre-req: Bio 1500; Pre- or Co-req: Chem 1320
<input type="checkbox"/> Bio 2300	Intro to Cell Biology	4	Pre-req: Bio 2200
<input type="checkbox"/> Bio 3400	Evolution & Ecology	3	Pre-req: Bio 2200; Note: no credit if either Bio 3650 or 4600 already completed; cannot co-enroll in Bio 4600
<input type="checkbox"/> Bio 3700	Animal Physiology	5	Pre-req: Bio 2300
<input type="checkbox"/> Bio 4500	Neurobiology	3	Pre-req: Bio 2300
<input type="checkbox"/> Bio 4600	Evolution	3	Pre-req: Bio 2200
<input type="checkbox"/> Bio 4640	Behavioral Biology	3-4	Pre-reqs: Bio 1500 and 1 upper-level Bio or Psych course
<input type="checkbox"/> Bio 4986	Neurology of Motor Systems	3	Pre-req: Bio 3700
<input type="checkbox"/> Bio 4988	Nerve Cells and Behavior	3	Pre-req: Bio 3700
<input type="checkbox"/> MPP 3202	Elements of Physiology	5	Pre-req: Sophomore standing
<input type="checkbox"/> Other APPROVED course:			

COMPUTER SCIENCE TRACK (12+ hours)

Required core (6-9 hours)		Hours	Pre-requisites and Notes
<input type="checkbox"/> Info Tech 1040	Intro to Problem-Solving and Programming	3	Note: Students with college credit for Math 1100 (<u>not</u> an exemption) may begin in CS 1050 and take 6 hours below.
<input type="checkbox"/> CS 1050	Algorithm Design & Programming I	3	Pre-req: Math 1100
<input type="checkbox"/> CS 2050	Algorithm Design & Programming II	3	Pre-req: CS 1050
Additional approved coursework (3 to 6 credit hours from list below)			
<input type="checkbox"/> CS 2270	Intro to Digital Logic	3	Pre-req: CS 2050 Note: Prior to SP 14 course was numbered CS 3270 (with pre-req of CS 1050)
<input type="checkbox"/> CS 3380	Database Applications & Info Systems	3	Pre-req: CS 2050
<input type="checkbox"/> Other APPROVED course:			

CHEMISTRY TRACK (12+ hours)

Required core (8 hours)		Hrs	Pre-requisites and Notes
<input type="checkbox"/> Chem 1320	College Chemistry I	4	Pre-req: Math 1100
<input type="checkbox"/> Chem 1330	College Chemistry II	4	Pre-req: Chem 1320
Additional approved coursework (at least 4 credit hours from list below)			
<input type="checkbox"/> Chem 2030	Survey of Organic Chemistry	3	Pre-req: Chem 1320 Recommended: Chem 1330 as Pre- or Co-req
<input type="checkbox"/> Chem 2100	Organic Chemistry I	3	Pre- or Co-req: Chem 1330
<input type="checkbox"/> Chem 2110	Organic Chemistry II	3	Pre-req: Chem 2100
<input type="checkbox"/> Chem 2130	Organic Chemistry Lab I	2	Recommended: Chem 2110 as Pre- or Co-req
<input type="checkbox"/> Chem 2140	Organic Chemistry Lab II	2	Pre-reqs: Chem 2110 and 2130
<input type="checkbox"/> Chem 2160H	Honors Organic Chemistry I	4	Pre-req: Chem 1320
<input type="checkbox"/> Chem 2170H	Honors Organic Chemistry II	5	Pre-req: Chem 2160H
<input type="checkbox"/> Chem 2190H	Honors Organic Chem Lab	2	Pre-req: Chem 2170H
<input type="checkbox"/> Chem 2400	Fund of Inorganic Chemistry with Lab	3	Pre-req: Chem 1330
<input type="checkbox"/> Chem 3200	Quant Methods of Analysis with Lab	4	Pre-req: Chem 1330
<input type="checkbox"/> Chem 3300	Fund of Physical Chemistry	3	3300 Pre-reqs: Math 1700, Chem 2100, Physics 1210/20 3310 Pre-reqs: Chem 2100, Physics 2175/76, Math 2300
OR Chem 3310	OR Physical Chemistry I	3	
<input type="checkbox"/> Chem 3330	Physical Chemistry II	3	Pre-req: Chem 3310
<input type="checkbox"/> Chem 3340	Physical Chemistry II Lab	3	Pre-req: Chem 3200 <i>and</i> Pre- or Co-req: 3330
<input type="checkbox"/> Chem 4170	Medicinal Chemistry	3	Pre-req: Chem 2110 or 2170H, 3300 or 3310
<input type="checkbox"/> Chem 4400	Inorganic Chemistry	3	Pre-req: Chem 3300 and Co-req: Chem 3330
<input type="checkbox"/> Other APPROVED course:			

STATISTICS TRACK (12+ hours)

NOTE: Students completing this track must complete additional math courses to meet the pre-requisite for Stat 4710.			
Required core (6 hours)		Hrs	Pre-requisites and Notes
<input type="checkbox"/> Stat 3500	Intro to Probability & Statistics II	3	Pre-req: Stat 2500
<input type="checkbox"/> Stat 4710	Intro to Mathematical Statistics	3	Pre-reqs: Math 1160 (5 hours) (or Math 1100 & 1140), Math 1500 (5 hours), Math 1700 (5 hours), and Math 2300 (3 hours)
Additional approved coursework (at least 6 credit hours from list below)			
<input type="checkbox"/> Stat 4110	Statistical Software & Data Analysis	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4150	Applied Categorical Data Analysis	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4210	Applied Nonparametric Methods	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4310	Sampling Techniques	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4410	Biostatistics	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4420	Applied Survival Analysis	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4430	Applied Longitudinal Data Analysis	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4510	Applied Statistical Models I	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4560	Applied Multivariate Data Analysis	3	Pre-req: Stat 3500 or 4710
<input type="checkbox"/> Stat 4810	Nonparametric Methods	3	Pre-req: Stat 4710
<input type="checkbox"/> Stat 4830	Categorical Data Analysis	3	Pre-req: Stat 4710
<input type="checkbox"/> Other APPROVED course:			

MATHEMATICAL SCIENCES TRACK (13+ hours)

Required courses (13 hours)		Hrs	Pre-requisites and Notes
<input type="checkbox"/> Math 1500	Analytic Geometry & Calculus I	5	Pre-req: Math 1160 <i>or</i> Math 1100 & 1140 <i>or</i> placement score
<input type="checkbox"/> Math 1700	Calculus II	5	Pre-req: Math 1500
<input type="checkbox"/> Math 2300	Calculus III	3	Pre-req: Math 1700
<input type="checkbox"/> Other APPROVED course:			