

III. PSYCHOLOGY

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Guidelines for Mathematical Sciences Courses

Psychology Majors

There is no specific math course required for these majors. Statistical literacy is important in this field, and STAT 269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement. The Math Department recommends STAT 269 as a good choice in preparation for PSYC 271 or SOCI 271. As an alternative, many students enroll in MATH 101, MATH 107, or CIS 171 in their first year. If you have had a pre-calculus course; then you should consider MATH 108.

Bio-Psychology Majors

Undergraduate preparation for medical school, dental school, veterinary school and allied health programs (such as chiropractic, occupational therapy, optometry, pharmacy, physician assistant and podiatry) is actually fairly straightforward. Please note that while the requirements are generally standard, there are many exceptions. Students are required to meet with Martha Smith, Coordinator of Pre-Health Professions Advising, in addition to their academic advisor, when planning their course of study. Mathematics requirements vary. Students should check the medical school to which they are applying for math requirements. While often not required, Math 108 (or higher) and statistics are strongly recommended.

Students with Advanced Placement credit

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math department's website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

**8-semester plan
Biopsychology (B.S)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
BIOL 160**	Molecular and Cellular Biology	4	BIOL 161**	Animal Form/Function (J-Term)	3
CHEM 105	General Chemistry I*	4	BIOL 162**	Plant Form and Function	3
IDFY 101	First Year Seminar*	3	CHEM 106	General Chemistry II	4
PSYC 099**	Writing for Psychology	1	IDCR 151	Created and Called for Community*	3
PSYC 101	Introduction to Psychology	3	PSYC 271 or STAT 269	Statistics*	3
TOTAL		15	TOTAL		17
Sophomore –Fall			Sophomore – Spring		
BIBL 2xx	Encountering the Bible*	3	CHEM 310***	Organic Chemistry II	4
BIOL 260**	Genetics and Development	3	Varies	2 nd Language course*	3
CHEM 309***	Organic Chemistry I	4	PSYC 209	Life Span Development	3
Varies	1 st Language course*	3	PSYC 272	Research Methods in Psychology	3
PSYC 350	Biological Basis of Behavior	3	Varies	Elective	3
TOTAL		16	TOTAL		16
Junior – Fall			Junior – Spring		
BIOL 387	Neuroscience	3	BIOL xxx	Biology elective†	3-4
Varies	Literature meeting QuEST*	3	COMM 105	Oral Communication*	3
Varies	3 rd Language or Cross-Cultural*	3	PHIL/RELI	Philosophy or Religion meeting QuEST*	3
Varies	Mathematical Science meeting QuEST*	3	PSYC 351	Sensation and Perception	3
PSYC 319/345	Abnormal Psychology or Cognition	3	Varies	Elective	3
WELL 1xx	Wellness Course*	1			
TOTAL		16	TOTAL		15-16
Senior – Fall			Senior – Spring		
BIOL xxx	Biology elective	3-4	BIOL495 or PSYC 494	Capstone Biology OR Psychology	3
IDNW xxx	Non-Western Studies*	2-3	HIST xxx	History meeting QuEST*	3
PSYC 408	Experimental Psychology	3	THEO/RELI	Christian Beliefs*	3
Varies	Ethics/World Views/Pluralism*	3	Varies	Art, Music, Theatre or Dance*	3
Varies	Elective	3	Varies	Elective	3
TOTAL		15-16	TOTAL		15

*QuEST requirement

**Students may take BIOL 185, 186, 189 and PSYC 099 in place of BIOL 160, 161, 162 and 260.

*** Students may take CHEM 204 in place of CHEM 309 and 310.

† Needed only if BIOL 185/186/189 taken.

Total = 122*-127 credits

*NOTE: 123 credits are still needed to graduate

Psychology (B.A.) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
PSYC 101	Introduction to Psychology	3	PSYC 209	Lifespan Development	3
PSYC 099	Writing for Psychology	1	BIO 258	Human Biology	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created & Called for Community*	3
Varies	Math/CIS/Statistics*	3	Varies	1 st language*	3
COMM 105	Fundamentals of Oral Communication*	3	PHIL/RELI	Philosophy or Religion Elective*	3
TOTAL		13	TOTAL		15
Sophomore –Fall			Sophomore - Spring		
PSYC 271	Statistical Methods in Psychology	3	PSYC 272	Research Methods in Psychology	3
PSYC 226	Social Psychology	3	PSYC xxx	Psychology Elective	3
Varies	2 nd language*	3	Varies	3 rd language or Cross Cultural*	3
BIBL 2xx	Encountering the Bible/OT/NT*	3	Varies	Literature Elective*	3
HIST xxx	History meeting QuEST*	3	Varies	Free Elective	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
PSYC 345 or 350	Cognition or Biological Basis Behavior	3	PSYC xxx	Psychology Elective	3
IDNW 2xx	Non-Western Studies*	2-3	PSYC xxx	Psychology Elective	3
Varies	Art, Music, Theatre or Dance*	3	PSYC 411	History and Systems	3
IDST 2xx	Science, Technology, & World*	3	THEO xxx	Christian Beliefs*	3
PSYC 3xx	PSYC 319 Abnormal Psychology or PSYC 323 Counseling Theories, or PSYC 324 Personality (Fall Only)	3	IDxx xxx	Ethics/World Views/Pluralism	3
TOTAL		14-15	Varies	Free Elective	3
TOTAL		14-15	TOTAL		18
Senior – Fall			Senior – Spring		
PSYC 408 or 409	Experimental Psychology or Psychology Testing	3	PSYC 494	Psychology Seminar Psychology	3
WELL xxX	Wellness Course*	1	PSYC xxx	Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3			
Varies	Free Elective	3			
TOTAL		16	TOTAL		15

* QuEST requirement

Total = 123-124 credits

If students enter the major second semester of junior year, they will not be able to graduate on time.

**Psychology with Clinical Concentration (B.A.)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
PSYC 101	Introduction to Psychology	3	PSYC 209	Lifespan Development	3
PSYC 099	Writing for Psychology	1	BIO 258	Human Biology	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created & Called for Community*	3
MATH/CIS/STAT	Math/CIS/Statistics*	3	Varies	1 st language*	3
COMM 105	Fundamentals of Oral Communication*	3	PHIL/RELI	Philosophy or Religion Elective*	3
TOTAL		13	TOTAL		15
Sophomore –Fall			Sophomore – Spring		
PSYC 271	Statistical Methods in Psychology	3	PSYC 272	Research Methods in Psychology	3
PSYC 324	Personality	3	PSYC 226	Social Psychology	3
Varies	2 nd language*	3	Varies	3 rd language or Cross Cultural*	3
BIBL 2xx	Encountering the Bible/OT/NT*	3	Varies	Literature meeting QuEST*	3
HIST xxx	History meeting QuEST*	3	Varies	Free Elective	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
PSYC 345 / 204	Cognition or Bio. Basis Behavior	3	PSYC 323	Counseling Theories	3
PSYC 319	Abnormal Psychology	3	PSYC 441	History and Systems	3
IDNW 2xx	Non-Western Studies*	2-3	Varies	Ethics/World Views/ Pluralism*	3
Varies	Art, Music, Theatre or Dance*	3	THEO xxx	Christian Beliefs*	3
IDST 2xx	Science, Technology, & World*	3	Varies	Free Elective	3
TOTAL		14-15	TOTAL		18
Senior – Fall			Senior – Spring		
PSYC 408 or 409	Experimental Psychology or Psychology Testing	3	PSYC 494	Psychology Seminar Psychology Elective	3
PSYC 423	Counseling Skills	3	INTE 391 or PSYC 391	Internship or Psychology Practicum	3
WELL xxx	Wellness Course*	1	Varies	Free Elective (or internship)	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3			
TOTAL		16	TOTAL		15

*QuEST requirement

If students enter the major second semester of junior year, they will not be able to graduate on time.

**Psychology (B.S)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
PSYC 101	Introduction to Psychology	3	PSYC 209	Lifespan Development	3
PSYC 099	Writing for Psychology	1	BIO 258	Human Biology	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created & Called for Community*	3
MATH/CIS/STAT	Math/CIS/Statistics*	3	Varies	1 st language*	3
COMM 105	Fundamentals of Oral Communication*	3	PHIL/RELI	Philosophy or Religion Elective*	3
TOTAL		13	TOTAL		15
Sophomore –Fall			Sophomore – Spring		
PSYC 271	Statistical Methods in Psychology	3	PSYC 272	Research Methods in Psychology	3
PSYC 319/323/ 324	Abnormal Psych, Counseling Theories, or Personality	3	PSYC 226	Social Psychology	3
Varies	2 nd language*	3	Varies	3 rd language or Cross Cultural*	3
BIBL 2xx	Encountering the Bible/OT/NT*	3	Varies	Free Elective	3
HIST xxX	History Elective*	3	Varies	Literature Elective*	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
PSYC 350	Biological Bases of Behavior	3	PSYC 351	Sensation and Perception	3
IDNW 2xx	Non-Western Studies*	2-3	PSYC 345	Cognition	3
Varies	Art, Music, Theatre or Dance*	3	THEO xxx	Christian Beliefs*	3
IDST 2xx	Science, Technology, & World*	3	IDxx xxx	Ethics/World Views/Pluralism*	3
Varies	Free Elective	3	Varies	Free Elective	3
TOTAL		14-15	TOTAL		18
Senior – Fall			Senior – Spring		
PSYC 494	Psychology Seminar	3	PSYC xxx	Psychology Elective	3
WELL xxX	Wellness Course*	1	PSYC xxx	Psychology Elective	3
Varies	Free Elective	3	PSYC 441	History and Systems	3
Varies	Free Elective	3	Varies	Free Elective (or internship)	3
Varies	Free Elective	3	Varies	Free Elective	3
PSYC 408	Experimental Psychology	3			
TOTAL		16	TOTAL		15

*QuEST requirement

If students enter the major second semester of junior year, they will not be able to graduate on time.

Psychology (B.S) Pre-Occupational Therapy / Occupational Therapy MOT
Suggested Course Sequencing

Course #	Course name	Credits	Course #	Course name	Credits
Semester 1 – Fall			Semester 2 – Spring		
PSYC 101	Introduction to Psychology	3	PSYC 209	Lifespan Development	3
PSYC 099	Writing for Psychology	1	IDCR 151	Created & Called for Community*	3
IDFY 101	First Year Seminar*	3	PHIL/RELI	Philosophy or Religion Elective*	3
MATH/CIS/STAT	Math/CIS/Statistics*	3	Varies	2 nd language*	3
COMM 105	Fundamentals of Oral Communication*	3	BIOL 258	Human Biology	4
Varies	1 st language*	3			
TOTAL		16	TOTAL		16
Semester 3 – Fall			Semester 4 – Spring		
PSYC 271	Statistical Methods in Psychology	3	PSYC 272	Research Methods in Psychology	3
PSYC 350	Biological Bases of Behavior	3	PSYC 226	Social Psychology	3
BIBL 2xx	Encountering the Bible/OT/NT*	3	PSYC 345	Cognition	3
Varies	3 rd language or Cross Cultural*	3	IDxx xxx	Ethics/World Views/Pluralism*	3
BIOL 185	Human Anatomy and Physiology I	4	BIOL 186	Human Anatomy and Physiology II	4
			ATHT 201	Medical Terminology	2
TOTAL		16	TOTAL		18
Semester 5 – Fall			Semester 6 – Spring		
PSYC 494	Psychology Seminar	3	PSYC 351	Sensation and Perception	3
PSYC 408	Experimental Psychology (Fall Only)	3	PSYC 319	Abnormal Psychology	3
IDNW 2xx	Non-Western Studies*	2-3	PSYC 441	History and Systems	3
THEO xxx	Christian Beliefs*	3	Varies	Art, Music, Theatre or Dance meeting QuEST*	3
Varies	Elective	2	HIST xxx	History meeting QuEST*	3
WELL xxx	Wellness course*	1			
			Varies	Literature meeting QuEST*	3
TOTAL		15-16	TOTAL		17
Summer Between Semester 6 and 7 (9 credits)					
OCCU 501	Foundations of Occupational Therapy #	3			
OCCU 505	Applied Anatomy #	3			
OCCU 505L	Applied Anatomy Lab #	0			
OCCU 508	Enabling Occupations #	3			
TOTAL		9			
Semester 7 – Fall			Semester 8 – Spring		
OCCU 524	Theoretical Perspectives in Occ Therapy #	3	IPEC 500	Interprofessional Education (IPE) Seminar	1
OCCU 526	Analysis of Occupation #	3	OCCU 530	Research Methods and Design	3
OCCU 510	Evidence-Based Inquiry #	3	OCCU 553	Common Conditions in OT Practice	3
OCCU 535	OT Process: Psychosocial Practice #	4	OCCU 555	Neurological Conditions in OT Practice	4
OCCU 535L	OT Process: Psychosocial Practice Lab #	0	OCCU 555L	Neurological Conditions in OT Practice Lab	0
OCCU 544	Therapeutic Techniques #	3	OCCU 562	Level I Fieldwork: Pediatric Practice	1
OCCU 544L	Therapeutic Techniques Lab #	0	OCCU 565	OT Process: Pediatric Practice	4
			OCCU 565L	OT Process: Pediatric Practice Lab	0
TOTAL		16	TOTAL		16
Summer Between Semester 9 and 10 (9 credits)					
OCCU 602	Level 1 Fieldwork Adult Practice	1			
OCCU 605	OT Process: Adult Practice	4			
OCCU 605L	OT Process Adult Practice Lab	0			
OCCU 615	Adaptations & Assistive Technology	3			
OCCU 615L	Adaptations & Assistive Technology Lab	0			
TOTAL		8			

Semester 9 – Fall			Semester 10 – Spring		
OCCU 572	Level I Fieldwork: Community Interventions	2	OCCU 583	Cultural & Global Considerations	2
OCCU 573	Health Promotion in OT: Community Inter	2	OCCU 586	Spirituality, Meaning & Health in Occupation	2
OCCU 623	Administration, Management & Leadership	3	OCCU 622	Fieldwork Level II-A	6
OCCU 625	OT Process: Older Adult Practice	4			
OCCU 625L	OT Process: Older Adult Practice Lab	0			
OCCU 630	Research Seminar	3			
TOTAL		14	TOTAL		10
Summer After Semester10 (7 credits)					
OCCU 632	Fieldwork Level II-B	6			
OCCU 636	Enrichment Seminar	1			
TOTAL		7			

*QuEST requirement

Graduate Course that fulfills Undergraduate Requirements (total of 25 credits)

Total UG Credits: 98-99 (dependent on the non-western course)

Total GR Credits Applied to the Undergraduate Degree: 25

Total Credits in the BS in Psych (Pre-OT) degree 123-124

Unique GR Credits: 55

Total Credits: 178-179 total credits

(total credits required if both degrees are completed: 203)