

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 319/204 | 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 | BIOL/PSYC 495 | 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

Biopsychology Curriculum
Occupational Therapy 3 + 2 Articulation Agreement with Thomas Jefferson
8 Semester Plan

| Course # | Course Name | Credits | Course # | Course Name | Credits |
|---------------------------|--|--------------|----------------------------|--|-----------|
| First Year – Fall* | | | First Year – Spring | | |
| BIOL 185 | Human Anatomy & Phys I | 4 | BIOL 186 | Human Anatomy & Physiology II | 4 |
| CHEM 105 | General Chemistry I* | 4 | CHEM106 | General Chemistry II | 4 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created & Called for Community* | 3 |
| PSYC 101 | Introduction to Psychology* | 3 | PSYC 209 | Life Span (J-term) | 3 |
| Varies | First Language meeting QuEST* | 3 | Varies | 2 nd Language meeting QuEST* | 3 |
| | | Total | | | 17 |
| Sophomore – Fall | | | Sophomore – Spring | | |
| BIBL 2xx | Encountering the Bible/OT/NT* | 3 | BIOL 189 | Genetics for Health Professions | 3 |
| COMM 105 | Foundations of Oral Communication* | 3 | PSYC 272 | Research Methods in Psychology | 3 |
| CHEM 204 | Intro to Organic Chemistry | 4 | ENGL 1xx | Literature meeting QuEST* | 3 |
| PSYC 350 | Biological Basis of Behavior | 3 | PHIL/RELI | Philosophy/Religion* | 3 |
| Varies | 3 rd Language or Cross-Cultural | 3 | PSYC 351 | Sensation and Perception | 3 |
| | | Total | STAT 269 | Introductory Statistics (J-term) | 3 |
| | | 16 | | | 18 |
| Junior – Fall | | | Junior – Spring | | |
| BIOL 387 | Neuroscience | 3 | Varies | Art, Music, Theatre or Dance* | 3 |
| BIOL ELECT | Biology Elective (from list) | 4 | BIOL 495 <u>or</u> | Capstone Natural Sciences | 3 |
| HIST xxX | History Elective | 3 | PSYC 494 | Psychology Seminar (choose one) | |
| WELL xxX | Wellness | 1 | IDNW xxX | Non-Western Studies* | 3 |
| PSYC 408 | Experimental Psychology | 3 | PSYC 319 | Abnormal Psychology | 3 |
| SOCI 212 | Cultural Anthropology | 3 | THEO xxx | Christian Beliefs* | 3 |
| | | Total | | | 15 |
| | | 17 | | | |
| Senior – Fall*** | | | Senior – Spring*** | | |
| OT 302 | Applied Ana/Kinesiology (L/L) | 4 | OT 308 | Concepts Neuro (L/L) | 4 |
| OT 311 | Health and Health Conditions | 4 | OT 322 | Found. Occupational I | 2 |
| OT 321 | Found. Occupational I | 2 | OT 357 | Evaluation Process | 4 |
| OT 366 | Occupation via Lifespan (L/L) | 5 | OT 467 | Health Service Admin. | 2 |
| OT | Domains Field Work Level 1 | 2 | | | |
| | | Total | | | 12 |
| | | 17 | | | |

*Meets QuEST requirement

Note: This first semester schedule is subject to change based on the outcome of the chemistry screening exam given the first Saturday of incoming student week.

**Students will need to complete an ELI (experiential learning initiative).

*** Senior year courses are taken at Thomas Jefferson University

**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 204/350 | Cognition or Biol. 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 |
| | | | | | |
| | | | 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

**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 241 | Group Dynamics | 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 204/350 | 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 |
| | | | 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

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 (Fall Only) | 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 |
| | | | Varies | Free Elective | 3 |
| | | | | | |
| | TOTAL | 15 | | TOTAL | 15 |
| Junior – Fall | | | Junior – Spring | | |
| PSYC 350 | Biological Bases of Behavior | 3 | PSYC 351 | Sensation and Perception | 3 |
| | | | PSYC 204 | Cognition | 3 |
| IDNW 2xx | Non-Western Studies* | 2-3 | THEO xxx | Christian Beliefs* | 3 |
| Varies | Art, Music, Theatre or Dance* | 3 | IDxx xxx | Ethics/World Views/Pluralism* | 3 |
| IDST 2xx | Science, Technology, & World* | 3 | Varies | Free Elective | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
| | | | | | |
| | TOTAL | 14-15 | | TOTAL | 18 |
| Senior – Fall | | | Senior – Spring | | |
| PSYC 441 | History and Systems | 3 | PSYC xxx | Psychology Elective | 3 |
| PSYC 494 | Psychology Seminar | 3 | PSYC xxx | Psychology Elective | 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 | | | |
| PSYC 408 | Experimental Psychology | 3 | | | |
| | | | | | |
| | TOTAL | 16 | | TOTAL | 15 |

*QuEST requirement