# Bachelor of Science in Psychology with Teaching Certification in Mathematics (Grades 7-12)

## About This Program

Bachelor of Science in Psychology with Teaching Certification in Mathematics (Grades 7-12) is intended for those students preparing for work and study in fields requiring more mathematics and sciences. It is also suitable for pre-medical and pre-dental students. Students preparing for study in the health professions including medicine, dentistry, pharmacology, optometry, occupational therapy, and veterinary medicine should also be advised by the Health Professions Advisor in order to meet the requirements of the corresponding professional schools.

## Competencies

1. Upon completion, students will demonstrate critical thinking skills and be familiar with the major concepts, theories, and historical trends in psychology.
2. Upon completion, students will be able to design, conduct, analyze, and interpret empirical research addressing psychological questions.
3. Upon completion, students will have a clear understanding of fundamental concepts in a breadth of topics in mathematics.
4. Upon completion, students will be familiar with effective pedagogical practices and be prepared to teach mathematics at the secondary level.

## Admissions Criteria

Students who wish to apply for major status in psychology must first meet the University and College of Science requirements for admission to major status and the specific requirements of the Department of Psychology listed below.

Overall and Psychology GPA of at least 2.25.  To be changed to full major you must first complete PSYC 2300 (https://catalog.uta.edu/search/?P=PSYC%202300), PSYC 3200 (https://catalog.uta.edu/search/?P=PSYC%203200) and PSYC 3300 (https://catalog.uta.edu/search/?P=PSYC%203300) with a C or better in each course.

### ADMISSION TO UPPER-LEVEL LABORATORY COURSES

To enroll in the Advanced Topic courses the student must make a C or better in both PSYC 2300 (https://catalog.uta.edu/search/?P=PSYC%202300),PSYC 3200 (https://catalog.uta.edu/search/?P=PSYC%203200) and PSYC 3300 (https://catalog.uta.edu/search/?P=PSYC%203300) or equivalent courses and must have completed the associated upper-division lecture course.

Advanced Topic courses: PSYC 4410 (https://catalog.uta.edu/search/?P=PSYC%204410), PSYC 4411 (https://catalog.uta.edu/search/?P=PSYC%204411),  PSYC 4412 (https://catalog.uta.edu/search/?P=PSYC%204412), PSYC 4415 (https://catalog.uta.edu/search/?P=PSYC%204415), PSYC 4420 (https://catalog.uta.edu/search/?P=PSYC%204420), PSYC 4421 (https://catalog.uta.edu/search/?P=PSYC%204421),PSYC 4430 (https://catalog.uta.edu/search/?P=PSYC%204430), PSYC 4431 (https://catalog.uta.edu/search/?P=PSYC%204431), PSYC 4432, (https://catalog.uta.edu/search/?P=PSYC%204432) PSYC 4433 (https://catalog.uta.edu/coursedescriptions/psyc/).

## Curriculum

A Bachelor of Science in Psychology can be achieved by completing a minor in a different discipline or by completing 18 hours of Psychology electives. Please consult with the Psychology undergraduate advisor before choosing one of these options.

| Foundations | | |
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| General Core Requirements (https://catalog.uta.edu/academicregulations/degreerequirements/generalcorerequirements/) | | 42 |
| Students must complete specific courses in certain core areas. | | |
| For Communication select: | | |
| ENGL 1301 | RHETORIC AND COMPOSITION I | |
| & ENGL 1302 | and RHETORIC AND COMPOSITION II | |
| For Life & Physical Science select: | | |
| BIOL 1441 | BIOLOGY I FOR SCIENCE MAJORS: CELL AND MOLECULAR BIOLOGY | |
| & BIOL 1442 | and BIOLOGY II FOR SCIENCE MAJORS: ECOLOGY AND EVOLUTION | |
| For Mathematics select: | | |
| MATH 1426 | CALCULUS I | |
| MATH 2425 | CALCULUS II | |
| For Social and Behavioral Sciences, select: | | |
| PSYC 1315 | INTRODUCTION TO PSYCHOLOGY | |
| For Foundational Component Area Option select 1 from the following: | | |

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| CHEM 1441 | GENERAL CHEMISTRY I | |
| CHEM 1442 | GENERAL CHEMISTRY II | |
| GEOL 1301 | EARTH SYSTEMS | |
| GEOL 1302 | EARTH HISTORY | |
| PHYS 1441 | GENERAL COLLEGE PHYSICS I | |
| PHYS 1442 | GENERAL COLLEGE PHYSICS II | |
| PHYS 1443 | GENERAL TECHNICAL PHYSICS I | |
| PHYS 1444 | GENERAL TECHNICAL PHYSICS II | |
| Psychology Foundations | | |
| Additional hours in math and science required in general education core. | | 4 |
| PSYC 2315 | STUDENT SUCCESS IN PSYCHOLOGY | 3 |
| PSYC 3360 | CAREERS IN PSYCHOLOGY | 3 |
| For computer literacy select: | | |
| SCIE 4331 | KNOWING AND LEARNING IN STEM | 3 |
| **Psychology Specialization** | | |
| PSYC 2300 | STATISTICS IN PSYCHOLOGY | 3 |
| PSYC 3300 | RESEARCH METHODS IN PSYCHOLOGY | 3 |
| PSYC 3200 | EXPERIENCING RESEARCH IN PSYCHOLOGY | 2 |
| Core Lectures | | |
| PSYC 3315 | SOCIAL PSYCHOLOGY | 3 |
| PSYC 3322 | BRAIN AND BEHAVIOR | 3 |
| PSYC 3334 | COGNITIVE PROCESSES | 3 |
| PSYC 3302 | BUSINESS PSYCHOLOGY | 3 |
| Lecture Groups | | |
| Select one three-hour lecture course from each of the following groups: | | |
| Group I | | 3 |
| PSYC 2317 | BASIC CONCEPTS IN HUMAN SEXUALITY | |
| PSYC 3303 | DRUGS AND BEHAVIOR | |
| PSYC 3314 | PSYCHOLOGY OF PERSONALITY | |
| PSYC 3325 | DATA SCIENCE IN PSYCHOLOGY | |
| PSYC 3357 | CYBERPSYCHOLOGY BASIC CONCEPTS | |
| PSYC 3358 | CYBERPSYCHOLOGY APPLICATIONS | |
| PSYC 3359 | POLITICAL PSYCHOLOGY FOR THE INTERNET | |
| PSYC 4339 | PSYCHOLOGY OF JUDGMENT AND CHOICE | |
| PSYC 4359 | SELECTED TOPICS IN PSYCHOLOGY | |
| Group II | | 3 |
| PSYC 3304 | ANALYSIS & MANAGEMENT OF BEHAVIOR | |
| PSYC 3320 | BEHAVIOR AND MOTIVATION | |
| PSYC 3326 | ANIMAL BEHAVIOR | |
| PSYC 3356 | EVOLUTIONARY PSYCHOLOGY | |
| PSYC 4301 | PRINCIPLES OF NEUROSCIENCE | |
| PSYC 4309 | NEUROPHARMACOLOGY | |
| PSYC 4315 | HORMONES AND BEHAVIOR | |
| PSYC 4327 | BEHAVIORAL GENETICS | |
| PSYC 4332 | THEORIES OF HUMAN LEARNING AND MEMORY | |
| PSYC 4334 | SENSATION AND PERCEPTION | |
| PSYC 4335 | COGNITIVE DEVELOPMENT | |
| PSYC 4338 | COGNITIVE NEUROSCIENCE | |
| Group III | | 3 |
| PSYC 3310 | DEVELOPMENTAL PSYCHOLOGY | |
| PSYC 3312 | SOCIAL & PERSONALITY DEVELOPMENT | |
| PSYC 3317 | INTRODUCTION TO CLINICAL AND COUNSELING PSYCHOLOGY | |

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| PSYC 3318 | ABNORMAL PSYCHOLOGY | |
| PSYC 3319 | PSYCHOLOGY OF ADOLESCENCE | |
| PSYC 4357 | HEALTH PSYCHOLOGY | |
| Group IV | | 3 |
| PSYC 3301 | PSYCHOLOGY OF HUMAN RELATIONS | |
| PSYC 3305 | PSYCHOLOGY OF EMPLOYEE TRAINING | |
| PSYC 3306 | PSYCHOLOGY OF CREATIVITY AND CREATIVE THINKING | |
| Advanced Topics Course | | |
| Select one of the following: | | 4 |
| PSYC 4410 | ADVANCED TOPICS IN DEVELOPMENTAL PSYCHOLOGY | |
| PSYC 4411 | ADVANCED TOPICS IN PERSONALITY | |
| PSYC 4412 | ADVANCED TOPICS IN SOCIAL PSYCHOLOGY | |
| PSYC 4420 | EXPERIMENTAL ANALYSIS OF BEHAVIOR | |
| PSYC 4421 | ADVANCED TOPICS IN NEUROSCIENCE | |
| PSYC 4415 | INTERNSHIP IN PSYCHOLOGY | |
| PSYC 4430 | ADVANCED TOPICS IN CLINICAL COUNSELING | |
| PSYC 4431 | ADVANCED TOPICS IN COGNITIVE SCIENCE | |
| PSYC 4432 | ADVANCED TOPICS IN HEALTH | |
| **Teaching Component** | | |
| SCIE 1334 | STEP 1 & 2 COMBO: INQUIRY APPROACHES TO TEACHING & LESSON DESIGN | 3 |
| SCIE 4332 | CLASSROOM INTERACTIONS | 3 |
| PHIL 2314 | PERSPECTIVES ON SCIENCE AND MATHEMATICS | 3 |
| SCIE 4333 | MULTIPLE TEACHING PRACTICES | 3 |
| SCIE 4607 | CAPSTONE TEACHING EXPERIENCE FOR STEM SECONDARY GRADES | 6 |
| SCIE 4107 | CAPSTONE TEACHING EXPERIENCE SEMINAR | 1 |
| **Mathematics Minor** | | |
| MATH 2330 | FUNCTIONS AND MODELING | 3 |
| MATH 3301 | FOUNDATIONS OF GEOMETRY | 3 |
| MATH 3307 | ELEMENTARY NUMBER THEORY | 3 |
| MATH 3314 | DISCRETE MATHEMATICS | 3 |
| **Total Hours** | | **122** |

# Advising Resources

Psychology Advisors are available to meet with:

1. Non-freshman students who have met the College of Science transition criteria to be advised in the College of Science
2. Transfer students
3. Students who wish to minor in Psychology

### EMAIL:

psychologydepartment@uta.edu

### PHONE:

817-272-2281

### WEB:

Psychology Advising (https://www.uta.edu/academics/schools-colleges/science/departments/psychology/advising/)