

INTEGRATED SCIENCE

BACHELOR OF ARTS OR BACHELOR OF SCIENCE

TLU's integrated science major combines challenging courses from natural, social, and behavioral sciences to prepare students for graduate or professional school.

ABOUT THE DEGREE

Students interested in studying and working in health-related careers that require a strong science background will find this program appealing because of its core disciplines: biology, chemistry, physics, and psychology. All coursework was selected specifically to provide common prerequisites for graduate and professional schools, and to support admission to and persistence in these programs. Additional class requirements vary by degree and include courses in computer science, economics, English, math, and sociology.

The Bachelor of Arts (B.A.) is one of several degree paths that prepares students for professional school in occupational or physical therapy, as well as other graduate programs requiring coursework in ISCI's core disciplines.

The Bachelor of Science (B.S.) is one of several degree paths that prepares students for medical school, specifically covering content on the Medical College Admission Test (MCAT). Students do not need to take any additional coursework to have at least minimal exposure to all areas targeted on the MCAT.

Psychological, social, and behavioral questions now constitute 25 percent of the MCAT. ISCI majors are well prepared in these areas giving them an overall advantage.

Prerequisites vary by graduate and professional school, and students are encouraged to meet with an advisor to determine the best degree path to meet their individual career goals and to ensure that they take the courses they will need to compete for admission.

Possible career paths for ISCI majors include physicians and medical researchers, neuroscientists, psychologists, physical or occupational therapists, academic researchers, physician's assistants, science writers, educators, and many others.

THE CURRICULUM

There are two options for ISCI majors: a B.A. and a B.S. The B.A. has more flexibility within the major area coursework, and in the number of available elective hours. The B.S. degree plan includes significant coursework in natural science, but adds enough social and behavioral science to round out perspectives when applying for graduate or medical school. The courses listed are to be completed in addition to TLU's general education requirements.

CORE COURSES (30 HOURS)

- Biological Systems I & II or Anatomy & Physiology I & II
- General Chemistry I & II
- General College Physics I & II
- Introduction to Psychology
- Cognitive Neuroscience or Behavioral Neuroscience or Animal Learning (B.A. only)
- Senior Capstone

BACHELOR OF ARTS (B.A.) CURRICULUM

61 hours including 30 hours from Core Courses plus:

- Biology elective
- Chemistry elective with a lab
- Computer Science
- Quantitative Methods for Psychology I & II
- 6 hours of electives in one of the following: biology, chemistry, physics, or psychology
- 6 hours of *upper division* electives in one of the following: biology, chemistry, physics, or psychology

SUPPORTING COURSES (12 HOURS)

- College Algebra
- Principles of Economics
- Professional Writing
- Introduction to Sociology

BACHELOR OF SCIENCE (B.S.) CURRICULUM

72 hours including 30 from Core Courses plus:

- Microbiology
- Genetics
- Biochemistry Lab
- General Physiology
- Introduction to Sociology
- Introduction to Social Psychology
- Developmental Psychology
- Metabolic Biochemistry
- Immunology
- Molecular Biology
- Organic Chemistry I & II

SUPPORTING COURSES (6-9 HOURS)

- Calculus I
- Statistics or Quantitative Methods for Psychology I & II



For more information about the integrated science program and how to apply, contact the TLU Office of Admissions at admissions@tlu.edu or 830-372-8050. For more information about TLU, visit www.tlu.edu.