

DIVISION OF BIOLOGY

Web Site: <http://www.twu.edu/biology>

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The Division of Biology offers many exciting options for students to select a curriculum that fits their choice of professions. These include a major in Biology, which provides excellent training and preparation for a variety of jobs in research, government, and industry, or for graduate school; and a major in Medical Laboratory Sciences, which prepares students for careers in clinical and diagnostic laboratories.

For students who plan to pursue admission to medical, dental, pharmacy, or veterinary school after they graduate, we offer a specific Biology Pre-Medical track that includes all the required prerequisites and provides excellent preparation for the Medical College Admission Test (MCAT), Dental Admission Test (DAT), or Graduate Record Examination (GRE). Another career that is growing in popularity is the physician assistant or physician associate (PA), and we offer a Biology Pre-Physician Assistant track that includes all the prerequisites and serves as outstanding preparation for entry to PA school.

An additional option is a major in Biology with preparation for a career in education, and we offer degree plans tailored for three different levels of teacher certification. Students with an emphasis in any of these areas are advised by a special advisor and should follow the specific recommendations outlined in the respective plan of study.

Finally, the Division of Biology is pleased to offer a degree in Medical Laboratory Sciences, which includes three years of Biology coursework followed by a year of specialized clinical training at an approved affiliate site. Please see more details in the section on the Medical Laboratory Sciences program.

The Division of Biology offers a minor in Biology and a Certificate in Biological Research. In cooperation with the Division of Chemistry and Biochemistry, we offer a minor in General Science, a minor in Pre-Medicine, and a minor in Pre-PA (for majors other than Biology or Chemistry/Biochemistry). In collaboration with the Division of Psychology and Philosophy, we offer a minor in Neuroscience. In collaboration with the Division of Visual Arts, we offer a minor in Scientific Illustration.

Academically advanced students seeking higher levels of training can apply to the accelerated B.S./P.S.M. program, a 5-year program

that enables students to earn a Bachelor of Science in Biology and a Professional Science Master's Degree in Biotechnology. We also have outstanding graduate programs that include a Master of Science in Biology (with Thesis or Professional Paper options), a Professional Science Master's degree in Biotechnology, and a Ph.D. in Molecular Biology. For more information on graduate offerings, please refer to the graduate catalog.

Undergraduate Degrees Offered

All bachelor's degrees in Biology require a minimum of 120 semester credit hours (SCH); and a minor of at least 18 SCH, of which a minimum of 6 SCH must be upper-division. Consult the minor department for any additional requirements.

- Minors (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/minors/>)
- Certificates (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/certificates/>)
- B.S. in Biology (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/biology-bs/>)
- B.S. in Biology (Pre-Med) (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/biology-bs-pre-med/>)
- B.S. in Biology (Pre-Physician Assistant) (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/biology-bs-pre-physician-assistant/>)
- B.S. in Biology (4-8 Science Certification) (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/biology-bs-teacher-certification-4-8-science/>)
- B.S. in Biology (7-12 Composite Science Certification) (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/biology-bs-teacher-certification-7-12-composite-science/>)
- B.S. in Biology (7-12 Life Science Certification) (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/biology-bs-certification-7-12-life-science/>)
- B.S. in Medical Laboratory Sciences (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/medical-laboratory-sciences-bs/>)
- Accelerated B.S. in Biology/P.S.M. in Biotechnology (<https://catalog.twu.edu/undergraduate/arts-sciences/biology/accelerated-biology-bs-professional-science-master-biotechnology/>)

For more information about the division, please visit the Division of Biology (<http://www.twu.edu/biology/>) webpage. For information about the teacher education program, please visit the Teacher Education (<https://twu.edu/teacher-education/>) webpage. For information about pre-health professions advising, please visit the Pre-Health Resources (<https://twu.edu/arts-sciences/student-resources/pre-health-resources/>) webpage.

Graduate Courses

Refer to the Graduate Catalog (<https://catalog.twu.edu/graduate/>) for information regarding graduate courses.