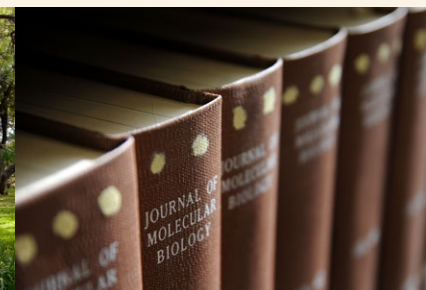


UNIVERSITY OF DALLAS



Biology Department

At the University of Dallas, we divide the biology curriculum into three levels: Molecules to Cells, Cells to Organisms, and Organisms to Populations. Students majoring in biology complete coursework at each of these levels while also having the opportunity to go into greater depth at a specific level. Through your courses you will gain valuable skills and experiences, including the ability to **make critical observations and decisions, engage in problem solving and creative thinking, conduct and explain research, collect and analyze data and organize and maintain accurate records.**

Below is a tentative four-year plan for a Bachelor of Arts degree in biology. Your own plan may vary. Additional courses may be required for some pre-medical and allied health programs.

Internships & Research

Start pursuing internships in biology and health sciences as early as you can. Your first internship may be more informal than the

one in your junior year, but it will provide valuable experience. You should strive to complete a full-time internship/research experience during your junior year. You may be able to receive up to six credits to apply toward your graduation requirement.

Preparing for MCAT/GRE & Compiling Applications

During your junior year, you will need to take the exams necessary for admission to graduate and pre-health programs. The department can provide you with study resources and advice for success on these exams. You will generally apply during the summer prior to your senior year or in the fall semester.

Comprehensive Examinations

All biology majors are required to complete a comprehensive exam during their senior year. The biology comps ask you to demonstrate content knowledge and skills, an understanding of the process of biology, and a mature scientific literacy. The biology comprehensive is an oral presentation to the faculty, generally given in the fall semester of your senior year.

Biology Four-Year Plan:

Freshman Year

Biology 1311, 1111	4	Biology 1312, 1112	4
Chemistry 1303, 1103	4	Chemistry 1304, 1104	4
English 1301	3	Theology 1310	3
Philosophy 1301/Lang. 2311	3	English 1302	3
		Economics 1311/Lang. 2312	3
Fall Semester Credits	14	Spring Semester Credits	17

Junior Year

Biology elective	3	Biology elective	4
Chemistry 3321, 3121	4	Chemistry elective	4
Physics 2311/2111 or 2305/2105	4	Physics 2312,2112 or 2306,2106	4
Math 1411/Elective	3/4	Philosophy 3311	3
Language 1301/Elective	3	Language 1302/elective	3
Fall Semester Credits	17/18	Spring Semester Credits	18

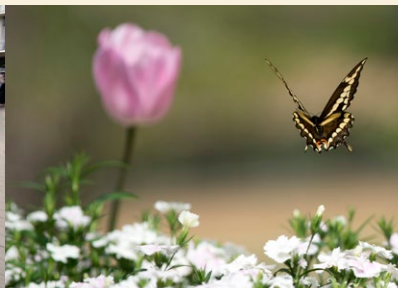
Sophomore Year (Spring semester spent in Rome.)

Biology elective	4	English 2311	3
Econ. 1311/Philosophy 1301	3	Philosophy 2323	3
Mathematics 1404	4	Art 2311	3
History 2302	3	History 2301	3
Politics 1311	3	Theology 2311	3
Fall Semester Credits	17	Spring Semester Credits	15

Senior Year

Biology 4360	3	Biology 3345/elective	3
Biology elective	4	Biology elective	4
History 1311(or 1312 in Spring)	3	Elective(or History 1312)	3
Economics 1311/elective	3	Language 2312/elective	3
Language 2311/elective	3	Elective	3
Fall Semester Credits	16	Spring Semester Credits	16

UNIVERSITY OF DALLAS



Bachelor of Arts or Bachelor of Science?

The BA is best if you have a general interest in the biological sciences but no plans to pursue advanced work in graduate school. The BA requires 30 credits in biology. You should consider the BS degree if you are looking for employment as a biologist or are interested in advanced work in biology in graduate school. The BS requires 12 biology credits beyond the 30 required for the BA and typically includes up to 6 credits of research or internship in a laboratory, the field, or a clinical setting.

Concentrations

The Biology Department offers three concentrations. The Environmental Science Concentration incorporates the study of problems caused by human use of the natural world with analysis of remedies through social, economic, or political change. The Molecular Biology Concentration incorporates the study of cell biology, genetics, and biochemistry and seeks to understand the issues related to the development and application of DNA technology. The Biopsychology Concentration addresses the study of psychology and biology as complementary disciplines that are both enhanced when combined.

Action Items for Biology Majors:

- Join campus clubs and organizations that support your interests, like the **American Society for Microbiology** at the University of Dallas. Explore what various organizations have to offer and what skills you can offer in return.
- **Visit the pre-health adviser** early if you are thinking of attending a health-related professional school.
- **Explore electives beyond your biology coursework.** While the Core curriculum will teach you to present complex ideas clearly and persuasively, electives from other departments – such as business, classics, or philosophy – could also benefit your career.
- Work with your academic adviser and the Office of Personal Career Development to explore **internship, field work or research opportunities** that will complement your study.
- **Present your research to the wider community.** Work with your academic adviser to find opportunities to present at an academic conference or other appropriate venue.

Applying your interests, skills, and values in a changing world

A few examples of experiential learning in which current and recent UD Biology students engage include:

Research Intern, Retina Foundation

Educational Aid, Group Excellence

A few examples of the ways recent Biology graduates serve are listed below. You'll find that professional interests of UD graduates are diverse:

Volunteer, Peace Corps

Quality Assurance Analyst, CenseoHealth

Patient Care Technician, Home Health Care Agency

Researcher, Baylor College of Medicine

Immunology Intern, Sanford Burnham Research Institute, San Diego

Laboratory Research Analyst, Pepsico/Frito Lay

Operations Brokerage Representative, Fidelity

Medical Missionary, Volunteers of Mercy

Medical Interpreter, Parkland Hospital

Risk Management Intern, NCH

Physical Therapy Technician, Southwest Sports & Spine - Katy Trail

Research Assistant, Retina Foundation

Staff Assistant. US House of Representatives, Capitol Hill

Below are examples of the institutions where recent Biology graduates pursued graduate level degrees:

Baylor College of Medicine

Texas Woman's University School of Nursing

George Washington School of Medicine

Marymount College School of Nursing

UT Southwest Medical Center

University of East Anglia - England (Fulbright)