COLLEGE OF ARTS & SCIENCES

BIOLOGICAL SCIENCES

Biological Sciences comprises the study of life from single-celled organisms to complex plants and animals. Students in this department are exposed to **foundational coursework in biology**, **chemistry**, **physics** and **mathematics**, preparing them for careers in science and science-related fields.

DEPARTMENT STRENGTHS

- Interdisciplinary Approach. Through research, faculty members provide specializations that foster interdisciplinary relationships.
- Esteemed Research. Nationally and internationally recognized research is conducted in numerous centers within the department.
- Hands-On Learning. Students are encouraged to participate in undergraduate research opportunities for academic credit.

SAMPLE CURRICULUM

Core Courses

- BIOL 1110/1111 General Biology I & Lab
- BIOL 1120/1121 General Biology II & Lab
- BIOL 3072/3073 Genetics & Lab
- BIOL 3130 Cell Biology
- BIOL 4100 Evolution

Additional Required Courses*

- CHEM 1110/1111 General Chemistry I & Lab
- CHEM 1120/1121 General Chemistry II & Lab
- MATH 1830 Elementary Calculus
- PHYS 2020/2021 General Physics II & Lab

DEGREE OPTIONS

- BS in Biology
  - Environmental Science
  - Honors in Biology
- Accelerated BS/MS in Biology
- MS in Biological Sciences
- PhD in Biological Sciences

MINORS & CERTIFICATES

- Biology Minor
- Environmental Science Minor
- Bioinformatics Graduate Certificate

FOCUS AREAS & RESEARCH

- Program Focus Areas
  - Cellular & Molecular Biology
  - Ecology, Evolution & Conservation Biology
  - Genetics, Genomics & Bioinformatics
  - Physiology & Behavior
- Research Centers
  - The ACRE Institute
  - Center for Biodiversity Search
  - Edward J. Meeman Biological Station
  - Integrated Microscopy Center
  - The University of Memphis Herbarium

THE UNIVERSITY OF MEMPHIS
College of Arts & Sciences

BIOLOGICAL SCIENCES
MAJOR FACT SHEET

BY THE NUMBERS (Spring 2024)

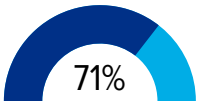
Student Enrollment

602	562	42
Total	Undergraduate	Graduate

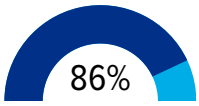
Number of Minors

33
Total

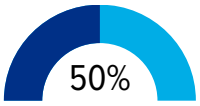
Student Demographics



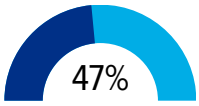
Female



Under 25



Pell Grant



First Gen

Faculty Employed

17:1
Student-Faculty Ratio†

36	3
Full-Time	Part-Time
33	72
Grad Asst	Total

Degrees Awarded

77
Total

70	0
Bachelor's	GRCT
3	4
Master's	Doctorate

Career Outcomes‡

$34K	$50K
Avg Expected Salary First Destination	Avg Annual Salary 1-3 Years Post-Grad
74%	72%
Employed in TN	Employed in Memphis

TN Employment Outlook

16.5%	280
10-Year Job Growth	Avg Annual Job Openings

CAREER OPTIONS

Job Titles

- Biochemist
- Cytotechnologist
- Dentist
- Epidemiologist
- Environmental Scientist
- Food Scientist
- Microbiologist
- Research Scientist
- Pharmacologist
- Veterinarian

Industries

- Biotechnology
- Education
- Environment
- Healthcare
- Research

WHO YOU ARE

Personality

- Adaptable
- Creative
- Inquisitive
- Methodical
- Perceptive
- Practical

Interests & Hobbies

- Collecting
- Gardening
- Gems & Minerals
- Hiking
- Microscopy
- Photography

WHAT YOU'LL LEARN

Core Skills

- Data & Statistical Analysis
- Lab Equipment & Techniques
- Experimental Design
- Sample Collection
- Scientific Ethics & Research
- Technical Report Writing

Transferable Skills

- Attention to Detail
- Collaboration
- Critical Thinking
- Ethical Reasoning
- Time Management
- Written & Oral Communication

* *The specified courses are for example purposes only. It is not a complete list of additional required courses.*

† *Calculated based on the number of student majors and the number of full-time faculty.*

‡ *Based on self-reported post-graduation outcomes of UofM students who have earned a Bachelor's degree in the last ten years.*