

DEGREES OFFERED

Bachelor of Science in Biology



UNIVERSITY of
MONTEVALLO

Department of Biology, Chemistry
& Mathematics

Harman Hall, Station 6480

Montevallo, AL 35115

For more information please contact:

Dr. Houston Byrd, Chair
byrdh@montevallo.edu

BIOLOGY

UNIVERSITY of MONTEVALLO

MAJOR COURSE REQUIREMENTS

- BIO 105 (Introductory Biology I) *or* BIO 107 (Honors Introductory Biology I)
- BIO 106 (Introductory Biology II)
- BIO 205 (Ecology)
- BIO 206 (Genetics)
- BIO 307 (Molecular Cell Biology)
- BIO 310 (Plant Systematics), BIO 380 (Invertebrate Zoology), BIO 390 (Animal Behavior), BIO 460 (Field Botany) *or* BIO 470 (Vertebrate Field Zoology)
- 12 credit hours of BIO 300/400 electives
- CHEM 122 (General Chemistry II)
- CHEM 221 (Organic Chemistry I)
- CHEM 222 (Organic Chemistry II) *or* CHEM 370 (Biochemistry I)
- MATH 150 (Pre-Calculus Algebra & Trigonometry) *or* MATH 144 (Pre-Calculus Algebra) *and* MATH 149 (Pre-Calculus Trigonometry)
- PHYS 202 (College Physics II) *or* PHYS 242 (University Physics II)



205-665-6480



montevallo.edu/biology



/BioChemMathUM



FACULTY

Mike Hardig, Professor, Ph.D. Botany,
Washington State University

Brett Noerager, Associate Professor, Ph.D. Physiology,
University of Alabama at Birmingham

Christine Sestero, Assistant Professor, Ph.D.
Microbiology, Idaho State University

Heather Tinsley, Assistant Professor, Ph.D.
Pharmacology and Toxicology, University of Alabama at
Birmingham

Jill Wicknick, Associate Professor, Ph.D. Ecology and
Zoology, University of Louisiana at Lafayette

FAST FACTS

Undergraduate students have published national peer-
reviewed papers with faculty.



Over 45% of all of our Biology graduates since 2006
have been accepted to graduate programs or health
professional schools.

STUDENT RESEARCH

“Characterization of TGF β R3 Signaling Pathways in
Autoimmune Disease”

“Potential Allelopathic Effects of Invasive Species
Ligustrum sinense Lour. Chinese Privet and *Triadica
sebifera* L. Small Chinese Tallow Tree on the
Germination of *Raphanus sativum* L. (Radish) Seeds”

“The Significance of PDGIB in cGMP Induced Death of
Breast Cancer Cells”

“Illumination of Bacteriophage Populations in
Montevallo, AL Aquatic Environments”

“Acrolein Exposure Influences Neutrophil Function”

“In Search of an Environmentally Friendly Disinfectant”

“A Survey of Chytrid Fungus, *Batrachochytrium
dendrobatidis*, Infection of Amphibians in the
Montevallo area of Alabama”

GRADUATES

Rachel L. Burt, B.S. Biology, 2014
DVM candidate, Auburn University

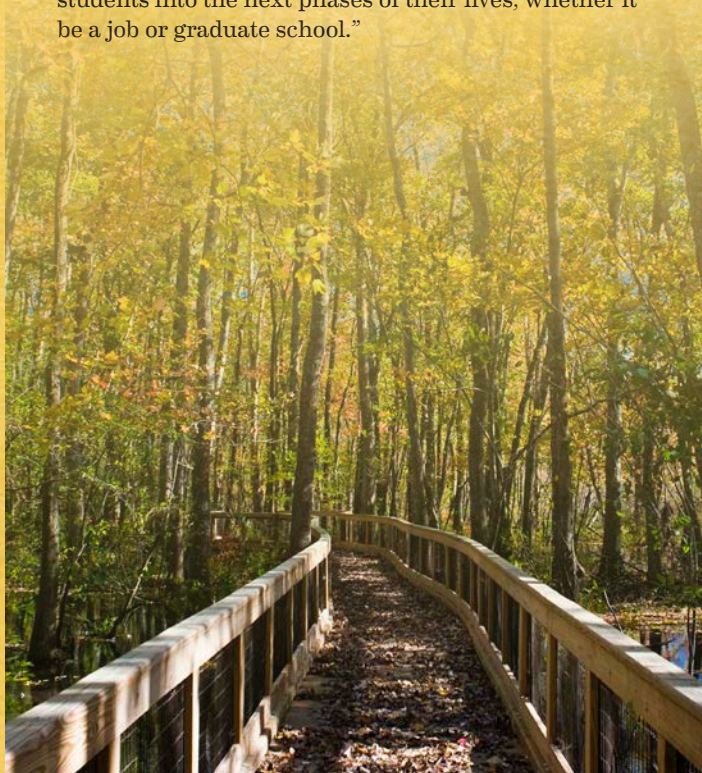
“The experience that UM is able to provide to its
students is one to be admired. Your professors will
know you by name and encourage your success every
step of the way.”

Elijah Fox, B.S. Biology, 2013
D.O. candidate, Alabama College of
Osteopathic Medicine

“UM offers professors who will not only teach the
material for their class, but also mentor students to help
them accomplish their goals. I believe it is through the
guidance of the science and math faculty at Montevallo,
that I was able to achieve my post-UM endeavors.”

Betsy Stevenson, B.S. Biology, 2013
O.D. candidate, UAB School of Optometry

“The science and math departments at UM offer a top
level education that prepares students for their future
endeavors. The student to professor ratio is unique in
that it allows for not only one on one attention, but a
personal relationship with professors who help guide
students into the next phases of their lives, whether it
be a job or graduate school.”



STUDENT SUCCESS

Our students have been accepted to the following
schools.

Dental school: University of Alabama at
Birmingham

Medical school: Alabama College of Osteopathic
Medicine, Southern Illinois University Carbondale,
University of Alabama at Birmingham, University
of South Alabama, University of Würzburg

Nursing school: University of Alabama, University
of Alabama at Birmingham, University of
Alabama in Huntsville

Optometry school: University of Alabama at
Birmingham

Pharmacy school: Auburn University, Samford
University

Physical Therapy school: University of Alabama at
Birmingham

Veterinary school: Auburn University, Mississippi
State University

Ph.D. programs: Auburn University, Clemson
University, Louisiana State University,
University of Alabama, University of Alabama at
Birmingham, University of Memphis, University
of Tennessee, University of Texas at Dallas,
Vanderbilt University

Masters programs: Auburn University, Bemidji
State University, Columbia Southern University,
New York University, Southern Illinois University
Carbondale, University of Alabama, University of
Alabama at Birmingham, University of Florida,
University of Montevallo, University of Southern
Denmark, University of Wisconsin