

## DEGREES OFFERED

Bachelor of Science in Chemistry

*Optional concentrations offered:* American Chemical Society Certified, Biochemistry



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

CHEMISTRY

## MAJOR COURSE REQUIREMENTS FOR ALL CONCENTRATIONS

- CHEM 121 (General Chemistry I)
- CHEM 122 (General Chemistry II)
- CHEM 221 (Organic Chemistry I)
- CHEM 222 (Organic Chemistry II)
- CHEM 320 (Analytical Chemistry)
- CHEM 321 (Physical Chemistry I)
- CHEM 450 (Instrumental Analysis)
- CHEM 490 (Chemistry Seminar I)
- CHEM 491 (Chemistry Seminar II)
- PHYS 202 *or* 242 (College Physics II *or* University Physics II)

\*additional courses required based on desired concentration



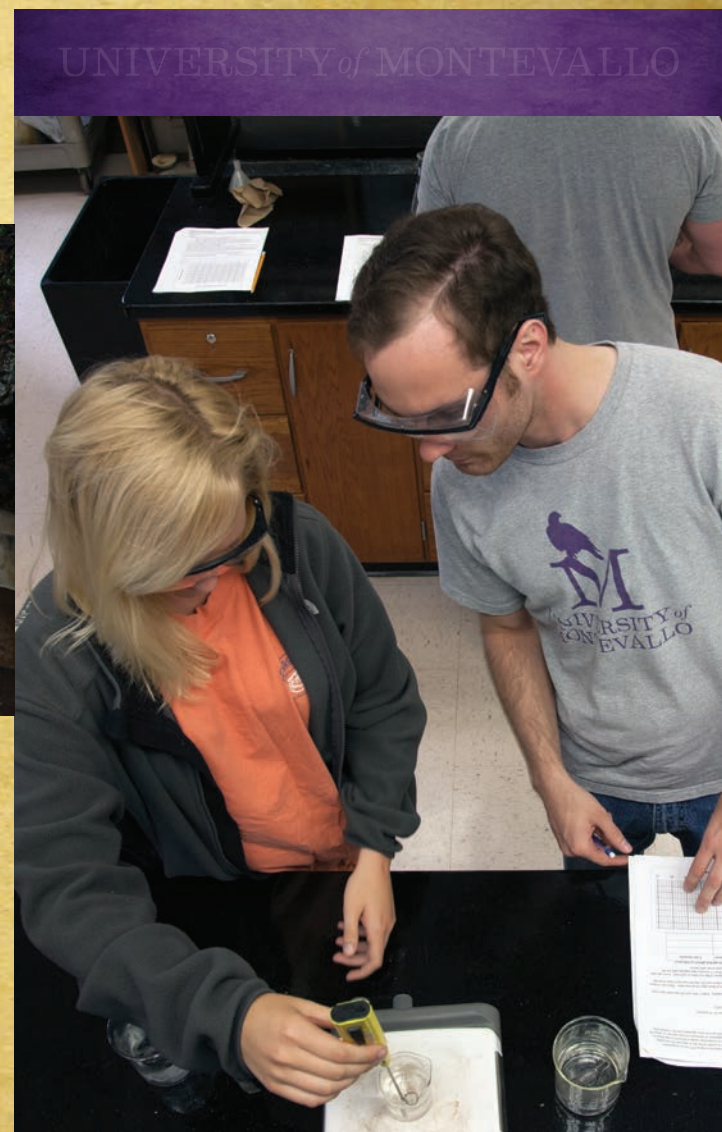
205-665-6480



montevallo.edu/chemistry



/BioChemMathUM



## FACULTY

Prakash Bharara, Professor, Ph.D. Chemistry,  
University of Rajasthan

Houston Byrd, Professor, Ph.D. Chemistry,  
University of Florida

Dalila Mathews, Assistant Professor, Ph.D. Chemistry,  
University of Georgia

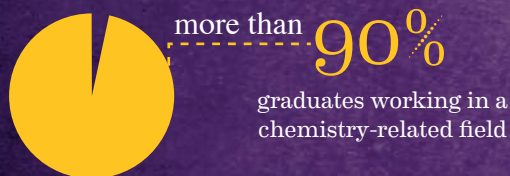
Cynthia Tidwell, Professor, Ph.D. Chemistry,  
University of Alabama

## FAST FACTS

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

85% acceptance rate to Tier 1  
health professional schools

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Since 1995 more than 70% of all chemistry graduates were accepted to graduate programs or health professional schools.

## STUDENT RESEARCH

“Synthesis of 5,10,15,20-Tetrakis-(3,4-bis-benzyloxy-phenyl) porphyrin and Two of its Metal Complexes”

“Fabrication, Characterization, and Optimization of Dye Sensitized Solar Cells”

“Prussian Blue Coated Electrode as a Sensor for Electroinactive Cations in Aqueous Solutions”

“Synthesis of a Novel Porphyrin”

“X-ray Crystallographic Studies of a Bimetallic Molybdenum Copper Complex and the Reaction Intermediates”

## GRADUATES

**Joshua Headley, B.S. Chemistry, 2012**  
DMD candidate, UAB School of Dentistry

“Thanks to the UM science department I was extremely prepared for dental school. The personal manner in which this department operates is highly beneficial to students.”

**Caroline Karanja, B.S. Chemistry, 2013**  
Ph.D. student, Purdue University

“I had the experience of a lifetime at the University of Montevallo! The education was superb. The professors in the Chemistry department really cared for their students and were passionate about ensuring that we were adequately prepared to succeed in life and in our further studies.”

**Alan Evans, B.S. Chemistry, 2013**  
Graduate student, University of Alabama

“The University of Montevallo helped prepare me for a future in chemistry. With personalized learning, open office hours and continued alumni support, I have been blessed to have such a strong foundation for my future.”

**Katherine Savell, B.S. Chemistry, 2014**  
Graduate student, UAB GBS Genetics, Genomics and Bioinformatics

“I found that the professors in UM’s chemistry program were truly invested in my success. Inside the classroom, they were the most devoted professors willing to spend as much time as it would take for me to grasp a concept. On top of that, they were never hesitant to provide guidance for my goals and wrote endless letters of recommendation for me. I confidently walked into the next stage of my education thanks to the training I received from the chemistry department.”



## STUDENT SUCCESS

Our students have been accepted to the following schools.

**Dental school:** Tufts University, University of Alabama at Birmingham

**Medical school:** Alabama College of Osteopathic Medicine, University of Alabama at Birmingham, University of South Alabama

**Nursing school:** Samford University, University of Alabama at Birmingham

**Optometry school:** University of Alabama at Birmingham

**Pharmacy school:** Auburn University, Samford University, University of Tennessee Health Science Center

**Physical Assistant school:** Kettering College

**Veterinary school:** Auburn University

**Ph.D. programs:** Auburn University, Clemson University, Emory University, Michigan State University, Purdue University, University of Alabama, University of Alabama at Birmingham, University of Florida, University of Georgia, University of North Carolina at Chapel Hill, University of Tennessee, Vanderbilt University

**Master’s programs:** Arizona State University, University of Alabama at Birmingham, University of Alabama in Huntsville, University of Florida, University of Montevallo