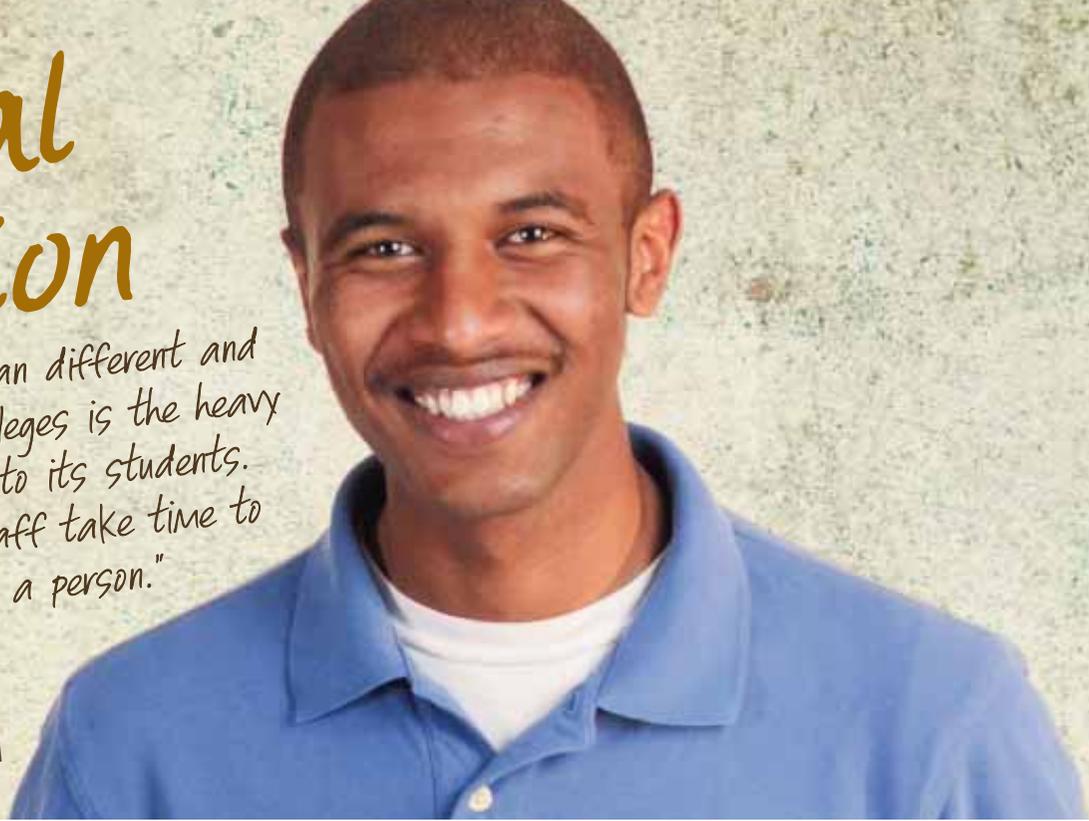


personal attention

"What makes Milligan different and unique from other colleges is the heavy investment it puts into its students. The faculty and staff take time to get to know you as a person."

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NASHVILLE, TENNESSEE
Biology/Pre-Med
[wants to become a pediatrician]



[ALLIED HEALTH]

Pre-Pharmacy or Optometry

The allied health major is designed for the student planning to pursue a career in pharmacy or optometry. Students can complete three years at Milligan and four years at a pharmacy or optometry school to earn both a bachelor's and doctorate degree in as few as seven years. Milligan has affiliation agreements with the pharmacy schools at East Tennessee State, Mercer, and Union universities, and with the Southern College of Optometry in Memphis. Students can receive a guaranteed interview at these schools by meeting the conditions of the specific agreements. See the website or ask to speak to our allied health advisor.

Curriculum

Allied health science majors at Milligan take courses that provide foundational knowledge required for the PCAT (Pharmacy College Admission Test) or Optometry Admission Test (OAT) and admission to pharmacy or optometry school. This includes coursework in biology, chemistry, and math.

[BIOLOGY]

Careers

The biology major is designed for students interested in careers in the biomedical sciences, education, research, healthcare, wildlife management or forestry, forensic science, and government services.

Curriculum

Biology majors at Milligan are exposed to a broad spectrum of life science disciplines. In addition to core biology classes, advanced courses include microbiology and immunology, molecular biology, neuroanatomy, embryology, ecology, animal histology, genetics, flora and fauna of the Southern Appalachians, environmental science, and anatomy and physiology.

[CHEMISTRY]

Careers

The chemistry major is designed for students interested in careers in industry, research, engineering, technical sales, environmental sciences, public health, teaching, or the biomedical sciences.

Curriculum

Chemistry majors at Milligan gain knowledge, skills, and experience in lab practices and instrumental techniques, and they learn how to interpret, evaluate, and communicate scientific information. Foundational knowledge of physics and mathematics are gained as students concentrate in organic, inorganic, analytical, and physical chemistry. In addition to core chemistry classes, advanced courses include biochemistry, quantitative analysis, quantum chemistry, and computational chemistry.

[MATH]

Careers

The math major is designed for students interested in careers in math, teaching, government, industry, or for graduate study.

Curriculum

Math majors at Milligan gain knowledge and skills in calculus (analysis), algebra, and logic, as they become analytical thinkers who can analyze abstract mathematical ideas and applied mathematical problems. In addition to core math classes, advanced courses include discrete mathematics, math logic, multivariable calculus, modern geometry, differential equations, topology, mathematical modeling, numerical analysis, and real and complex analysis.

MILLIGAN

A premier Christian liberal arts college in Northeast Tennessee
PO Box 210, Milligan, TN 37682 :: 423.461.8730 :: admissions@milligan.edu



[SCIENCE @ MILLIGAN]

Facilities & Equipment

The Science Building is devoted to biological, physical, and chemical sciences at Milligan. It contains five 24-station labs, multiple classrooms, and a gross anatomy lab. Chemistry instrumentation includes a Buck Model 500 Infrared Spectrophotometer, Libra S32-PC Ultraviolet-Visible Spectrophotometer, and Agilent Model 1120 Compact High Performance Liquid Chromatography.

Science at Milligan

Superior training is what students interested in the medical, science, math, or technical fields will find in Milligan's Scientific Learning Area. Through classroom and lab experiences, various research and internship opportunities, and use of online tools, students can explore new technology and become critical thinkers who can successfully comprehend and communicate scientific knowledge.

Internships

We like our science students to gain research and internship experience in addition to classroom and lab learning. Our faculty help arrange and oversee internships and shadowing opportunities at locations such as Eastman, Delray/Crown Labs, and Mountain States Health Alliance. Students can also gain valuable experience as lab assistants in the science courses.

Real Science

We take science seriously, but we enjoy learning and we like our students to experience science on many levels. Hands-on learning is provided in every area, from building a trebuchet in math modeling class, to annual science trips to the Outer Banks, the Smithsonian in Washington, D.C., the national parks, and local field studies throughout the Southern Appalachians, an area rich in bio-diversity and beauty. Explore and enjoy nature through courses in birdwatching, ecology, flora and fauna of the Appalachians.



Faculty

Small classes and one-on-one personal attention from professors provide an excellent education and a close-knit community of student and faculty scholars. Milligan's science and math faculty have doctoral degrees from Tennessee, UCLA, Michigan State, Iowa State, University of



Pittsburgh, Lehigh University, and

Penn State. They are recognized and published

scholars, and most importantly, they are excellent teachers and caring mentors.

Successful Graduates

Graduates are working in biomedical and biological sciences, education, industry, engineering, healthcare, research, and government services, including the FBI, DEA, and CDC. Our graduates perform very competitively in post-baccalaureate programs (such as medical, dental, pharmacy, and other graduate schools) throughout the country. Many are serving as physicians and medical missionaries throughout the world.



A PREMIER CHRISTIAN LIBERAL ARTS COLLEGE

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