



ROCHESTER
UNIVERSITY

MATH & SCIENCE



Degree Options

Biology

Tracks available in:
Cellular/Molecular Biology • Environmental Biology

Health Sciences

Tracks available in:
Pre-Pharmacy • Pre-Physical Therapy

A BIOLOGY OR HEALTH SCIENCES DEGREE

introduces you to the elements of the physical world in which you live and the tremendous complexity and diversity found in all of God's creation. You will acquire mathematical knowledge and reasoning skills, be equipped to participate in the responsible stewardship of natural resources on a professional level, and prepare for participation in graduate programs of study. In addition to obtaining a comprehensive knowledge base of the biology and chemistry of organisms, you will develop critical thinking and effective communication skills, safe and ethical lab practices, and experimental research savvy with attention to design, methodology, validity, and interpretation of results.

Pre-Med *The bachelor of science degree with an interdisciplinary studies major and concentration in pre-med allows you to incorporate studies specifically designed for medical school and MCAT preparation. Admission requirements to the pre-med program include a cumulative GPA of 3.40, as well as a 3.40 GPA in all science and mathematics coursework.*

Pre-Physician Assistant *The bachelor of science with interdisciplinary studies major and concentration in pre-physician assistant allows you to incorporate studies specifically designed for physician assistant programs.*

Course Highlights

Biology

- Microbiology
- Biochemistry
- Elementary Statistics
- Human Anatomy and Physiology
- Genetics
- Cell Biology
- Natural Science Internship
- Senior Seminar in Science

Health Sciences

- Organic Chemistry
- Life Span Development
- Exercise Physiology
- Elementary Statistics
- Calculus and Analytic Geometry
- Microbiology
- Biochemistry
- Genetics
- Human Anatomy and Physiology
- Natural Science Internship
- Senior Seminar in Science

by the numbers

1,014
students

from 22 states & 16 nations

Rochester Hills has
been named one of the
100 SAFEST CITIES
in the United States

CNN's Money Magazine
recognized Rochester as one of
the top places to live and the very

BEST IN all
of MICHIGAN!

average
CLASS
SIZE of

16

97%

of Rochester University
graduates are employed
or continuing their
education within
a year of graduation

OUR CAMPUS IS **68 PRISTINE ACRES**
LOCATED A SHORT WALK FROM DOWNTOWN ROCHESTER

and no
more than
30 miles
from...

MUSEUMS • MARKETS • MALLS • CONCERTS
PRO SPORTS • THE AUTOMOTIVE SCENE • OUTDOOR ADVENTURE
FOOD TRUCKS + FINE DINING • WORLD CLASS ENTERTAINMENT
natural beauty, and all kinds of other fun to discover

THE RU ADVANTAGE

We analyze. We identify. We serve.

As you begin your studies at RU, you will start making connections between your past experiences and present opportunities for the purpose of discovering and shaping your identity. Throughout your academic journey, you will continually engage with the world around you and create a plan to use your experiences, knowledge and skills to discover and develop pathways to purpose and meaning. As a student at RU, you will be introduced to the story of God in order to reflect on how you can participate in God's mission in the world. As you approach graduation, you will apply your accumulated knowledge and experiences to a specific project and share the results with RU's academic community. The result of this work is well-educated and compassionate graduates who can change their lives and the world for the better.

Rise Together. Stand Apart.

This tagline represents who we are; the following core distinctives show how we deliver on this identity.



INSIDE THE CLASSROOM

Academic Philosophy | EPIC

Exploring. Preparing. Integrating. Calling.

We believe every student has a unique story worth telling. In fact, we think your story can be epic. Our courses are designed to help you explore, prepare, integrate (connect and apply knowledge) and find your calling – while helping you succeed.

RochesterU.edu/epic



OUTSIDE THE CLASSROOM

Mentoring Program | RISE

Relationship. Inspiration. Support. Engagement.

RISE begins during your freshman year and helps you build meaningful relationships with alumni, friends of the institution, faculty and staff. Mentors serve as positive role models who provide valuable guidance, support and encouragement as you navigate the challenges of transitioning from high school to college, then academic to professional life.

RochesterU.edu/rise



BEYOND THE CLASSROOM

Loan Repayment Assistance Program | RU Pledge

Pursue your passions without the burden of debt.

All incoming RU freshmen are eligible for the RU Pledge, our innovative loan repayment assistance program (LRAP) that provides quarterly reimbursement of federal, private and parent PLUS loan payments if you earn less than \$50,000 per year after graduation.

RochesterU.edu/pledge



Alumni Profile

JENNA ORR

Naturalist, Chattahoochee Nature Center
Claims Resolution Analyst, Triage Consulting Group

“ My degree provided a solid foundation for employment in both the healthcare industry and field of environmental education. A highlight of my time in the program was the natural science field study out west. Observing all that nature has to offer and learning through hands-on examination with my peers and professor, while fulfilling a class requirement, was an opportunity I am grateful for.”

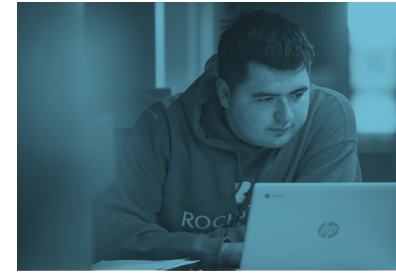


Alumni Profile

KATY PEACOCK

Medical student • Michigan State University

“ Although RU's science program is not traditionally based, I highly recommend it. The small class sizes offer access to professors that you don't get at larger schools. This allowed me to learn according to my individual interests, strengths and weaknesses. It also meant I was able to pursue research opportunities that ultimately helped me achieve my goal of attending medical school and has given me a knowledge base that has served me well.”



FACULTY



DAVID BRACKNEY
Chair—Department of Science
and Mathematics
Professor of Physical Science
Ed.D., Wayne State University
M.S., Eastern Illinois University
B.A., University of Michigan

KATHARYN COCHRANE
Associate Professor of Biology
Ph.D., University of Michigan
M.Ed., Texas A&M University
B.S., Texas A&M University
B.A., Texas A&M University

MICHAEL MUHITCH
Associate Professor of Chemistry
Ph.D., Miami University
M.S., Miami University
B.S., Baldwin-Wallace College

GARY TURNER
Assistant Professor of Mathematics
M.S., Oakland University
B.S., Harding University

VIVIAN TURNER
Assistant Professor of Biology
M.S., Middle Tennessee State University
B.S., Lipscomb University

A degree is just the beginning.

Here's how you can use your degree to positively impact lives, communities and the world.

BIOLOGY This degree can be used to pursue careers such as technical/science writer, wildlife or environmental specialist, conservation scientist, agriculture/park services worker, water treatment operator, lobbyist, quality control inspector, or laboratory (police, hospital, academic, etc.) technician. It also offers preparation for biology-related graduate school, such as medical, dental, veterinarian or physician's assistant.

HEALTH SCIENCES This bachelor of science degree is designed for students interested in pursuing studies at a pharmacy or physical therapy school. This degree will provide the essential background and requirements to enter these health-related programs. Students should consult the requirements of the specific programs to which they plan to apply. The degree may also be used for a general background for other health sciences-related pursuits.

take the next step

Apply online at RochesterU.edu/apply



» Visit RochesterU.edu/cost for an estimate on the cost of attending RU and your possible financial aid.

CONTACT US

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