



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

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

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.

BIOLOGY • HEALTH SCIENCES

These degrees introduce 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-PHYSICAL THERAPY *The bachelor of science with interdisciplinary studies major and concentration in pre-physical therapy allows you to incorporate studies specifically designed for physician assistant programs.*

average
CLASS
SIZE of

12

86% OF GRADUATES

were employed, enrolled in graduate school, or engaged in an internship within 6 months of graduation

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

**BEST IN all
of MICHIGAN!**

1,098

STUDENTS
from 19 states and 10 nations

Rochester Hills has been named one of the
100 SAFEST CITIES IN THE US

OUR CAMPUS IS **83 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

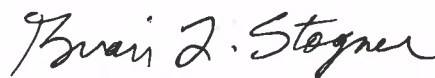
NATURAL BEAUTY, AND ALL KINDS OF OTHER FUN TO DISCOVER

We see you as a person created in the image of God. You're not just a name on a class roster or a number on an assessment report. You are a human being who belongs here!

We want you to come to RU to start discovering your life purpose and to envision how that purpose unfolds in your work life. Then, as you continue in these pursuits, we hope you will explore how all of those discoveries coincide with what God is doing in the world. We'll help you take your gifts and capabilities and use them productively for yourself and for your future. Equally important, we want you to use your degree to positively impact lives, communities and the world.

This approach to your future can also be described as "vocation." I encourage you to start thinking "vocation" in addition to "career." Why? Because employers are looking for individuals who have this holistic vision and who bring big-picture thinking and integrity to the workplace—every day.

Thus, our ultimate goal is to set you on a path where you have a vocation that allows you to support yourself and your family, brings positive energy to the workforce, and helps improve our world.



DR. BRIAN STOGNER, President



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
 B.A., University of Michigan
 M.S., Eastern Illinois University
 Ed.D., Wayne State University

KATHARYN COCHRANE

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

MICHAEL MUHITCH

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

GARY TURNER

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

VIVIAN TURNER

Assistant Professor of Biology
 B.S., Lipscomb University
 M.S., Middle Tennessee State 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/costcalc for an estimate on the cost of attending RU and your possible financial aid.

CONTACT US

248.218.2222 | RochesterU.edu

800 West Avon Road, Rochester Hills, MI 48307

