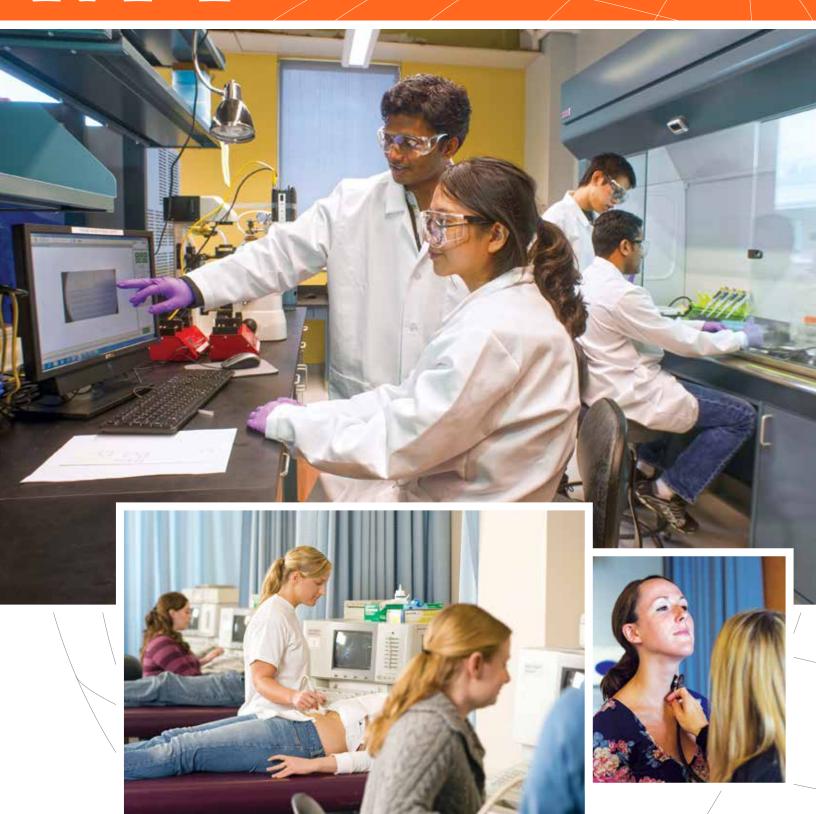
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COLLEGE OF

HEALTH SCIENCES & TECHNOLOGY

HEALTH SCIENCES AND TECHNOLOGY

College of Health Science and Technology

Undergraduate students: 579

Graduate students: 77

Faculty: 25

Outcomes Rate: 98%

Experiential learning:

Clinical internships required in diagnostic medical sonography and physician assistant, co-op required in dietetics and nutrition, optional in all other majors; study abroad and undergraduate research encouraged

Degrees offered: BS, MS, BS/MS, MFA

Rankings and Recognition:

U.S. News & World Report ranked the College of Health Sciences and Technology 40th in the nation for the physician assistant program.

The College Choice of the Best Ultrasound Technician Schools ranked RIT's BS in diagnostic medical sonography No. 10 on a list of the top 25 schools that offer four-year programs in ultrasound.

Research highlights:

· Psychophysiological self-regulation

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Bioinformatics
Biology
Biomedical Engineering
Biotechnology and Molecular Bioscience
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Photographic Sciences

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Welcome to RIT's College of Health Sciences and **Technology** (CHST). The college is part of the larger Institute of Health Sciences and Technology (IHST), which includes the IHST Research Center and the IHST Outreach Center. Together, they serve to merge technology and medicine to educate future health care professionals, meet workforce and community needs, and develop and apply innovative new technologies in health care delivery.

ur exceptional bachelor's and master's degree programs are designed to prepare students for exciting careers in the growing and ever-changing health care field. Our students combine their technical knowledge with their passion for helping others, and enter the workforce or graduate school committed to improv-

ing health care delivery and to making a difference in the lives of their patients and the entire community. They are truly a cut above, and I am continually amazed by their dedication and commitment.

You will meet the distinguished and talented faculty who teach and mentor these exceptional students. And you will learn about the many areas of research that are currently ongoing in infectious disease control, immunology, cancer, cardiovascular disease, behavioral health, health systems engineering, biotechnology, bioengineering, imaging science, deaf technologies, medical devices, and more.

In addition, we are fortunate in our affiliation with Rochester Regional Health, through the RIT & RRH Alliance, to be able to provide students with the added value of mentoring by real-world doctors, nurses, and technicians, while also providing the clinical, hands-on experience needed for the most complete and comprehensive educational experience.

While this college is at the heart of health and medical studies at RIT, it collaborates with other colleges within RIT to offer seven additional programs related to health and medicine. These partnerships offer an unequaled range of program options; committed, experienced faculty; and myriad co-op/internship and research opportunities. In short, CHST and its alliances with other colleges form a living/learning health and medical education powerhouse.

I encourage you to explore all that RIT and the College of Health Sciences and Technology have to offer. We would be delighted to welcome you into one of our exciting programs.

Daniel Ornt, MD, FACP

Vice President and Dean, Institute and College of Health Sciences and Technology



Career-oriented programs

RIT's focus on undergraduate education allows us to provide high-quality, innovative, and relevant degree programs that prepare you for challenging and exciting career and graduate study opportunities. Given the changing nature of the employment market, RIT aims to prepare you with lifelong career skills, and you'll find that our combination of teaching, research, and practical work experience ensures you receive an education that is comprehensive and up to date.

Wegmans School of Health and Nutrition

The Wegmans School of Health and Nutrition is dedicated to researching and addressing today's critical health issues, including obesity, sedentary lifestyles, smoking, and other risk behaviors. In addition to housing majors in exercise science, dietetics and nutrition, and nutritional sciences, the school seeks new ways to influence and advance the fields of health and nutrition through practical solutions that positively impact individuals and community health.

Institute of Health Sciences and Technology

The College of Health Sciences and Technology is part of the larger Institute

of Health Sciences and Technology. As a student in the college, you'll have access to the other two components of the Institute: the Health Sciences Research Center and the Health Sciences Outreach Center, The Research Center provides opportunities to gain experience through co-ops, internships, and research projects. The Outreach Center partners with regional workforce development agencies to support community health initiatives. These three entities serve to educate future health care professionals, meet workforce and community needs, and apply innovative technologies to health care delivery.

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RIT/Rochester Regional Health Alliance

Another advantage to studying health sciences and technology at RIT is the RIT/Rochester Regional Health (RRH) Alliance. Under this new strategic alliance, RIT is Rochester Regional Health's official academic affiliate and RRH is the university's official affiliated medical center. RIT and RRH collaborate on education and research programs in key areas of health sciences

and technology and provide mutual access to each institution's expertise and facilities. This alliance offers you broad opportunities in all areas related to health sciences and technology.

Experiential learning

Since 1912, the hallmark of an RIT education has been experiential learning. RIT was among the first universities in the world to offer cooperative education (co-op), which gives you the opportunity to apply your classroom learning to the workplace. Within the College of Health Sciences and Technology, experiential learning opportunities include co-op as well as clinical internships, undergraduate research, and study abroad. For more information, see pages 14-15.

The bottom line

The College of Health Sciences and Technology has an outstanding record of producing graduates capable of leading the convergence of medicine and technology. Consistently, 96 percent of our graduates are employed full time or enrolled in graduate school within six months of graduation.

Rochester Institute of Technology



Biomedical Sciences

A strong foundation

In the biomedical sciences major, you will learn the basics of human body structure and function and apply that knowledge to course work and research pursuits. You will learn the science behind normal and abnormal functions of the human body and how this knowledge is the essence to the diagnosis and treatment of disease. Your study begins with the life sciences core, a set of courses designed to provide you with a strong grounding in mathematics and science.

Flexibility and choice

In addition to core courses, you will select a concentration of study to further develop your skills and knowledge. Concentrations include focused courses in genetics, professional studies (premedical, predental, or preveterinary), exercise science, or pathology (the study of disease). A large number of electives allow you to customize your education. Endocrinology, genetics, histology, diagnostic medical imaging, patient care, virology, diagnosing the criminal mind, gross anatomy, biochemistry—these are just a few of the electives you can select to complement your studies in biomedical sciences. You may also choose from more than 90 minors to gain another area of expertise or pursue a personal interest. Many of your courses will be held in the Center for Bioscience Education and Technology, which provides you with access to sophisticated equipment in cutting-edge teaching and research laboratories. With access to a wide variety of faculty, courses, facilities, and research opportunities across the life science and medical science disciplines, you'll be well prepared for professional success.

Careers

Advances in biotechnology and an increase in staff needed in new medical research industries has led to rapid growth in the field of biomedical sciences. The need is great for more research in many areas of health care, including AIDS, diabetes, cancer, and neurological disorders such as Parkinson's and Alzheimer's disease.

What you'll study

First and Second Years

General Biology I, II General and Analytical Chemistry I. II Cellular and Molecular Biology Applied Calculus Statistics Anatomy and Physiology I, II Liberal Arts Writing Seminar Foundational Elective Wellness Education **Flectives** General Education— Liberal Arts and Sciences Year One: College Experience

Third and Fourth Years

Liberal Arts
Biomedical Science
Electives
Concentration Courses
General Education—
Liberal Arts and Sciences
Focus Electives in
Medical Foundations
Medicine and Disease
Medicine and Health

Select Biomedical Sciences Electives

Immunology Premedical Studies Medical Genetics Endocrinology Organic Chemistry I, II Patient Care **Biochemistry** Infectious Disease Sports Physiology and Life Fitness Physics I, II Undergraduate Research Sports Nutrition Clinical Microbiology Histology Medical Pathophysiology Human Gross Anatomy Neuroscience Parasitology Virology Pharmacology **Evolutionary Biology** Language of Medicine Diagnosing the Criminal Mind Epidemiology and Public Health Addiction Pharmacology



Ashley Bonney

Hometown: Beltsville, MD **Major:** Biomedical Sciences

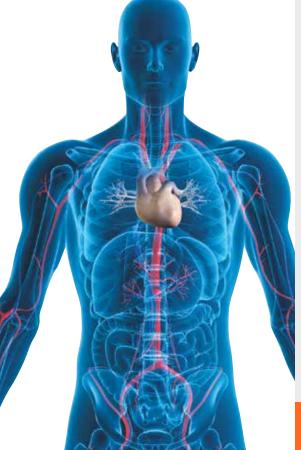
Immersion: Psychology

Clubs and Activities: president and founder, Women of Excellence Supporting STEM; member, Organization of African Students; scholar, Multicultural Center for Academic Success; college representative, Multicultural Center for Academic Success; member, DIVAS; member, Caribbean Student Organization

Undergraduate Research:

Bacterial causes of middle-ear infections in children

Ashley Bonney's first encounter with medicine occurred as a child, when her younger sister was ill. Bonney and her family spent a lot of time in and out of hospitals and Bonney was impressed with the care and compassion her sister's doctors had for her entire family. Fast forward several years and you'll find Bonney not only excelling in her biomedical sciences major, but she's helping to shape the college experience for women pursuing degrees in the STEM (science, technology, engineering, and math) fields. She is the founder and president of Women of Excellence Supporting STEM, an organization that unifies and empowers women studying in the STEM disciplines at RIT. "It's important to encourage women to pursue these goals. We're the minority in STEM fields, and providing that connection to other women can be really powerful," she said. Inspired by her sister, Bonney plans to apply for medical school, where she can continue to explore her love of science. "Medicine is me getting to use science to help other people," she said. "I want to make a difference in someone else's life."



Diagnostic Medical Sonography Ultrasound





Preparing for the field

RIT's diagnostic medical sonography major is one of only a few baccalaureate degree programs of its type in the nation and has graduated leaders in the field since its inception. The curriculum has been developed to meet and exceed national standards and combines a strong science and liberal arts education with practical experience to prepare you for a career in ultrasound, medical or dental schools, or graduate study. The curriculum also emphasizes skills in administration and research in addition to the development of scanning and diagnostic abilities, with a focus on relevancy to clinical practice.

Clinical internship experience

In addition to the extensive hands-on experience in the on-campus, state-of-the-art ultrasound scanning suite, you'll put your new skills and techniques to use in a clinical internship at two or more medical facilities. You'll gain experience in abdominal, obstetrical, and gynecological ultrasound and be introduced to vascular ultrasound and other specialties such as neurosonography (the brain) and echocardiography (the heart). An internship allows you to apply learned knowledge in a real-world setting.

National qualifying exam and career opportunities

Upon successful completion of the program, you will be eligible to sit for a national qualifying exam administered by the American Registry of Diagnostic Medical Sonography (ARDMS). Passing this exam denotes entry into the field and allows you to work anywhere in the United States and around the world. Employment opportunities are expected to continue to grow well into the future. RIT graduates work as sonographers in hospitals, clinics, private physician offices, and other medical facilities. Some work freelance for mobile services. The field attracts people who enjoy working in a vibrant health care environment and who are interested in using the latest technologies to help care for others. With attractive salaries and flexible work hours, sonography is an exciting career path. Opportunities also exist in industry as education specialists, sales representatives, administrators, and researchers.

Certificate options available

Students also can earn a certificate in diagnostic medical sonography or in echocardiography. These are designed for individuals with an allied health background or an undergraduate or advanced degree in the life sciences. Certificates require one year of full-time study in the clinical internship after completion of prerequisite courses.

What you'll study

First and Second Years

General Biology I, II Pre-Calculus Introduction to Statistics Computers in Medicine Human Anatomy & Physiology I, II Language of Medicine Medical Genetics General Education— Liberal Arts and Sciences Wellness Education Writing Seminar Foundational Elective Year One: College Experience

Third and Fourth Years

Human Cross-Sectional Anatomy Sonography Physics and Instrumentation I, II Sonographic Scanning Skills and Techniques I, II Medical Pathophysiology Patient Care Obstetrical Sonography I, II Gynecological Sonography Abdominal and Small Parts Sonography I, II Administration and Research in Sonography Sonographic Vascular Evaluation Clinical Sonography I, II General Education-Liberal Arts and Sciences Electives

Required clinical internship at affiliated hospitals



Dietetics and Nutrition





Foundation in nutrition and dietetics

The dietetics and nutrition major. accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND), provides you with the knowledge necessary to become a registered dietitian/nutritionist (RDN). Courses in chemistry, anatomy and physiology, and food science expand your scientific knowledge by teaching you how food is used by the human body. You'll study business, information technology, and the liberal arts as well.

The program requires three blocks (400 hours each) of cooperative education—paid, professional work experience—in the food and nutrition field. The dietetics and nutrition major has specific course requirements necessary to meet the core knowledge requirements of ACEND. Upon completion of the degree program and a required post-baccalaureate dietetic internship, students are eligible to take the National Registration Exam for Dietitians. Effective 2024, an MS degree in any discipline will be required for entry-level practice as a Registered Dietitian. Students completing BS degree programs prior to that date will be grandfathered.

The program offers a challenging curriculum that prepares you for diverse professional opportunities. Possible career paths may be developed in private practice; community nutrition and public health; wellness; sports fitness programs; education and corporations; clinical dietetics, hospital, or long-term-care food management facilities; research for clinical, educational, or food manufacturing operations; restaurant consulting; and health media, among others.

Students enrolled in other RIT majors may study nutrition by earning a nutritional sciences minor.

What you'll study

First and Second Years General, Organic, and

Biochemistry I. II Contemporary Nutrition Principles of Food Production Principles of Marketing Sanitation and Safety Introduction to Psychology Foundations of Sociology Microbiology in Health and Disease Introduction to Statistics College Algebra Principles of Microeconomics Financial Accounting Anatomy and Physiology I, II Food and Beverage Management **Flectives**

Wellness Education Cooperative Education Writing Seminar Foundational Elective General Education-

Liberal Arts and Sciences Year One: College Experience

Third and **Fourth Years**

Assessing and Improving Service Quality Life Cycle Nutrition Food Innovation and Development Dietetic Environment Human Resources Development Nutrition and Integrative Medicine Techniques of Dietetic Education Leadership Innovation in Service Industries Medical Nutrition Therapy I, II Dietetic Internship Seminar Community Nutrition Senior Project Flectives General Education-Liberal Arts and Sciences Cooperative Education



Brianna Williams

Hometown: Penfield, NY Major: Dietetics and Nutrition

Minor: Spanish

Co-ops/Internships: Diet Office Assistant, Highland Hospital; Dietary Intern, Gates-Chili School District; Dietary Aide, Heathwood Assisted Living

Awards: recipient, Outstanding Undergraduate Scholar Award

Clubs and Activities: member, Student Dietetic Association; member, Wegmans School of Health and Nutrition Student Advisory Board; member, Student Wellness Ambassador Team; member/ choreographer, Vis Viva Dance Team

Study Abroad: Guadalajara, Spain

Brianna Williams has always loved nutrition. "Food, exercise, and science have always been huge components of my life," she said. Williams loves learning about nutrition from a molecular perspective, understanding vitamins and minerals, carbohydrates, fats, and proteins, and how they impact the body. "I also love the visual of seeing these elements in food, and finding foods that I can eat that provide me with all of these things that I learned about," she said.

Williams has been accepted to the Dietetic Internship Program at Johns Hopkins Bayview Medical Center. The 10-month program is among the most competitive in the nation and is designed to prepare students to sit for the Commission on Dietetics Registration Exam for Dietitians, which leads to the registered dietitian credential. "I'm hoping I would have been able to succeed wherever I ended up going to school, but I don't think I would have done quite as well as I have at RIT," she said.

Exercise Science





Exercise specialists

Students majoring in exercise science develop the knowledge, skills, and abilities necessary to succeed as an exercise specialist. Students learn to conduct medical screenings, perform fitness assessments, and prescribe appropriate exercise programs. The major provides students a solid foundation in the sciences with course work that includes physics, chemistry, math, and human anatomy and physiology. The major's core curriculum includes the fundamentals and principles behind exercise physiology, sports psychology, fitness prescription, kinesiology, and biomechanics.

Achieve competency in three career tracks In the clinical track, students learn to utilize exercise as a therapeutic treatment modality for individuals with high-risk health issues or those diagnosed with disease. This track prepares students for professional certification as a Certified Exercise Physiologist through the American College of Sports Medicine (ACSM).

The athletic track develops students' abilities to work with a wide variety of athletes to enhance their overall performance while reducing the risk of injuries. Courses fulfill the educational requirement to sit for the Certified Strength and Conditioning Specialist exam offered through the National Strength and Conditioning Association (NSCA).

The **research track** offers opportunities for students to engage in independent and

faculty-supported research to study problems in exercise physiology and biomechanics. Students work under the mentorship of a faculty member in a wide range of areas, from identifying new methods of fitness and strength testing, to examining biomechanical principles of human form and function, to determining the efficacy of biomechanical devices, robotics, and the measurement of cardiovascular function.

Career opportunities abound

Exercise professionals can find work in corporate, community, and commercial fitness facilities as well as medical rehabilitative settings and a growing number of athletic teams and sports performance clinics.

What you'll study

First and Second Years

General Biology I, II
General and Analytical
Chemistry I, II
Seminar in Exercise Science
Introduction to Exercise
Science
Applied Calculus
First Year Writing
General Education—
Liberal Arts and Sciences

Liberal Arts and Sciences
Year One: College Experience
Anatomy and Physiology I, II
College Physics I, II
Introduction to Statistics
Cell and Molecular Biology
Fitness Prescription
Human Motor Development
Wellness Education

Third and Fourth Years

Exercise Physiology
Kinesiology
Sports Nutrition
Biomechanics
Exercise Science Research
Group Exercise Design
Worksite Health Promotion
Coaching Healthy Behavior
Sports Psychology
Professional Electives
General Education—

Liberal Arts and Sciences Open Electives



Nutritional Sciences



Well-being requires nutrition

Understanding nutrition, especially nutritional content, can have a remarkable impact on our health. Educating the public about the benefits of nutrition, and the various ways healthy living can improve our well-being, is the focus of the BS degree in nutritional sciences.

The nutritional sciences major blends biological, chemical, and behavioral sciences to help health professionals, administrators of nutrition and health promotion programs, and the general public better understand and translate the science of food into policy and practice. Nutritionists and nutrition scientists apply their knowledge to help businesses offer employee wellness programs; assist food systems administrators and engineers involved in food innovation and technology; and oversee government programs addressing food insecurity and population health issues.

The major offers a challenging curriculum that prepares students with an in-depth understanding of nutrition as an important moderator of health. Students are well prepared to apply to professional programs, such as medical school, enter graduate school for further biomedical studies, or provide expertise in nutrition to the general public in a range of diverse settings (e.g., sports fitness programs, hospitality industry, nutrition writing, and federal nutrition programs).

An effective nutritional scientist is skilled

in working with people to address behavioral issues, teach clients about nutrition and health properties in food, and offer nutrition supervision. The major offers a comprehensive curriculum that provides a solid foundation in nutritional sciences as well as leadership skills that include communication, problem solving, team dynamics, and interaction with the community.

Gain experience with cooperative education

Two required blocks of cooperative education give you hands-on experience in the nutrition field. You'll alternate periods of full-time, paid experience with full-time study on campus. Through co-op you'll gain a fuller understanding of the roles nutritionists and nutrition scientists play in various professional environments.

Opportunities abound

Careers in nutrition are diverse, ranging from policy development, communications, and social and community services. You can choose to select electives to become eligible to sit for the Certified Health Education Specialist (CHES), a respected credential in health care education. You will also be well prepared to pursue graduate study for a career in medicine, allied health, or research.

Note: The nutritional sciences program does not meet the educational requirements of the Academy of Nutrition and Dietetics that lead to eligibility to become a Registered Dietitian Nutritionist.

What you'll study

First and Second Years Third and

Principles of Food Production Contemporary Nutrition Introduction to Psychology College Algebra General Organic and Biochemistry I. II Anatomy and Physiology I, II with Labs Foundations of Sociology Introduction to Statistics Electives First Year Writing Cooperative Education General Education-Liberal Arts and Sciences Wellness Education

Third and Fourth Years

Techniques of
Dietetic Education
Life Cycle Nutrition
Nutrition and
Integrative Medicine
Medical Nutrition Therapy I
Senior Project
Cooperative Education
Electives
General Education—
Liberal Arts and Sciences
Wellness Education





Matthew Noll

Hometown: Baldwinsville, NY **Major:** Physician Assistant

Minor: Deaf Cultural Studies and ASL

Co-ops/Internships: Patient Care Technician, Rochester Regional Health

Undergraduate Research: Summer Undergraduate Research Fellowship 2015, 2016; presented his research at the national conference of the American Academy of Physician Assistants and had his research published in its journal, *JAAPA*

Clubs and Organizations:

Honors Program; founding president, Global Health Association; past president, Physician Assistant Student Association; member, Phi Sigma Pi National Honor Fraternity

When Matthew Noll stepped on campus for his interview at RIT, he knew immediately it was the place he should be. "I liked that RIT has smaller colleges within a larger university. You have that small college feel with all the advantages of a large university," he said.

He chose the physician assistant major for two reasons: his love of medicine and the flexibility for an evolving career path. "I like that physician assistants can change fields. I can start off in a very heavy schedule like surgery and if I ever have a family I can very easily go into out-patient care that has a more nine-to five schedule," he said. Plus, his interests are varied and he likes the idea of pursuing a new direction in medicine if an opportunity arises.

Noll is leaning toward a career in critical care while continuing to conduct clinical research. He is also interested in pursuing a doctorate in epidemiology, biostatistics, or public health.

Physician Assistant

A focus on patient care

The physician assistant major is a five-year combined BS/MS program. Each entering class is limited to approximately 36 students to ensure individual attention and mentoring. From the onset, your studies will be centered on the health care environment and patient care. The pre-professional phase (years 1 and 2) involves courses in basic sciences, mathematics, and the liberal arts. Years 3, 4, and 5 make up the program's professional phase, which provides 18 months of intensive medical science course work in areas such as clinical diagnostic skills, physical diagnosis, pharmacology, and clinical medicine topics from pediatrics to geriatrics.

A full year of clinical experience

The fifth year includes 12 months of supervised clinical rotations in various health care settings. Your studies take on new meaning when you're working with patients on a daily basis. You'll get handson patient care experience in clinical areas such as internal medicine, pediatrics, women's health, orthopedics, emergency medicine, surgery, family practice, behavioral health, geriatrics, and one elective rotation. You'll use your skills and knowledge on the front lines of health care.

National certifying exam

The National Commission on Certification of Physician Assistants (NCCPA) administers the national board examination. Certification is required to practice in most states, including New York. In addition, a practicing physician assistant must retake the national board exam every 10 years and complete continuing medical education throughout his or her career to maintain certification.

Careers that make a difference

In general, physician assistants provide approximately 80 percent of the services typically provided by a family physician. Upon graduation, you'll have your choice of specialties and health care environments for employment, including hospitals, public health clinics, academic medical centers, schools, and private physician offices. Physician assistants can be found in all communities from small rural to large urban areas. Some physician assistants choose to continue their education in public health, health care administration, business, law, and a number of related areas.

Accreditation

The professional phase of the program is fully accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA). At its September 2017 meeting, the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA) placed the Rochester Institute of Technology Physician Assistant Program sponsored by the Rochester Institute of Technology on Accreditation-Probation status until its next review in September 2019. Probation is a temporary status of accreditation conferred when a program does not meet the Standards and when the capability of the program to provide an acceptable educational experience for its students is threatened. Once placed on probation, programs that still fail to comply with accreditation requirements in a timely manner, as specified by the ARC-PA, may be scheduled for a focused site visit and/or risk having their accreditation withdrawn. Specific questions regarding the Program and its plans should be directed to the Program Director, Heidi Miller, PA-C, MPH at hbmscl@rit.edu and/or Vice President and Dean, Daniel Ornt, MD at dboihst@rit.edu.

What you'll study

First and Second Years (PRE-PROFESSIONAL)

Year One: College Experience Foundational Elective Writing Seminar General Biology and Lab I, II General and Analytical Chemistry and Lab I, II Applied Calculus Anatomy and Physiology I, II Biochemistry for Health Sciences Medical Microbiology Introduction to Statistics General Education— Liberal Arts and Sciences Flectives Wellness Education

Fifth Year (PROFESSIONAL)

Pediatrics Internal Medicine Women's Health Emergency Medicine Surgery Orthopedics

Third and Fourth Years (PROFESSIONAL)

Pathophysiology I, II History and Physical Diagnosis I, Íl Advanced Gross Anatomy Clinical Medicine I, II, III PA Seminar Pharmacology I, II, III Clinical Lab Medicine Clinical Genetics Hospital Practice Society and Behavioral Medicine Diagnostic Imaging Procedural Clinical Skills Clinical Integration Healthcare Policy and Law Clinical Epidemiology Research Methods Flective

Geriatrics
Behavioral Health
Family Medicine
Elective Rotation
Professional Practice I, II, III
Graduate Project I, II

ADDITIONAL ACADEMIC OPTIONS

Premedical and Health Professions Advising

How it works

If you are interested in a career in the health professions that requires a graduate degree (e.g., physician, dentist, pharmacist, physical therapist, physician assistant, occupational therapist, etc.), RIT's Premedical and Health Professions Advising Program is available to you regardless of your academic major. This advisory program provides you with the guidance, assistance, and information you will need to complete the admissions requirements for graduate programs in all of the various health professions.

Admissions requirements

These vary from program to program and from school to school. However, all require applicants to complete specific science and non-science courses. In addition, all health professions schools require the completion of a standardized examination (e.g., MCAT, DAT) so students are encouraged to communicate regularly with their advisers for test information, updates on prerequisites, and planning and course selection. For more information on RIT's Premedical and Health Professions Advising Program, please visit rit.edu/premedical.

What you'll study These are the core requirements for students applying to medical school Biology two semesters with lab General Chemistry two semesters with lab Organic Chemistry two semesters with lab Biochemistry one or two courses **Physics** two semesters with lab English two courses Psychology one or two courses Sociology one course



Lake Erie College of Osteopathic Medicine (LECOM) Early Acceptance Programs

RIT students interested in medicine, pharmacy, and dentistry are able to gain provisional early acceptance to LECOM, and in some cases, begin their studies at LECOM prior to completing their bachelor's degrees. The LECOM's Early Acceptance Program agreements with RIT are as follows:

- College of Medicine, "3+4" and "4+4"—
 Students will attend RIT for either three or
 four years, and then complete four years of
 study at LECOM to earn the Doctor of
 Osteopathic Medicine (D.O.) degree.
- School of Pharmacy, "3+3 (4)" and "4+3 (4)"—
 Students will attend RIT for either three or
 four years, and then complete three years at
 LECOM's School of Pharmacy in Erie, or four
 years at its School of Pharmacy in Bradenton,
 Fla. LECOM's Erie campus is one of the few
 nationally to offer an accelerated, three-year
 Doctor of Pharmacy (Pharm.D.) degree. The
 School of Pharmacy at the Bradenton campus
 offers a more traditional, four-year program.
- School of Dental Medicine, "4+4"—Students will attend RIT for four years and then complete four years at LECOM. The Early Acceptance Program for the DMD degree is offered only at LECOM's campus in Bradenton, Fla.

The affiliation program is administered through RIT's Office of the Director of Premedical and Health Professions Advising in the College of Health Sciences and Technology. For more information, go to http://lecom.edu/entrance-requirements and follow the link for LECOM Undergraduate Affiliated Colleges.



Exploring Academic Options

Many students will enroll at RIT still deciding on the direction of their academic pursuits. If you are a student with multiple interests and would like to take time to explore before committing to a major, here are two options for you to consider.

University Exploration

University Exploration is for students with multiple interests that span two or more colleges and allows them to enroll at RIT before identifying a specific academic program of study. Through introductory courses, seminars, and with the help of informed advisers, students have an opportunity to explore their interests, values, and career goals in order to make an informed decision regarding a major at RIT. Students may remain in the program for up to one year before deciding upon a major.

Science Exploration

The science exploration option is a year-long sequence of courses built around a single project aimed at designing, building, and conducting scientific research to achieve a goal. The goal will be presented to students on the first day of class. This approach to interdisciplinary technical education emphasizes real-world, handson problem-solving by student-led teams. It offers participating students a degree of autonomy and responsibility rarely found at the freshman level.

Students in the exploration option will develop an in-depth appreciation for the specific field in which their team was involved while also learning about majors in RIT's College of Health Sciences and Technology and College of Science.

RELATED DEGREE PROGRAMS



Biochemistry

College of Science



Bioinformatics

College of Science



Biology

College of Science

An Education Powerhouse

Collaboration with other colleges within RIT expands the number of degree options for students—you are offered an unequaled range of program options; a unique blending of technology, science, art, and design; and a breadth and depth of faculty not found at other universities. The following pages provide overviews of additional degree programs related to health sciences and technology.

By blending the classic disciplines of biology and chemistry, biochemistry offers opportunities if you're seeking an exciting career in the life and health sciences.

Combine your interests

In the biochemistry major, you will learn about the study of biological questions using the quantitative tools and molecular principles that lie at the heart of chemistry. Traditional chemistry course work will be supplemented with introductory and advanced courses in biological sciences, including cellular and molecular biology. The rigorous biochemistry curriculum can be completed in four years. Research and cooperative education experiences are highly recommended. The biochemistry major prepares you for a co-op as early as the summer of your first year. Ongoing research opportunities at RIT cover a wide range of topics including bacterial metabolism, protein structure and function, and molecular visualization and modeling.

Preparing for your next step

The biochemistry major is certified by the American Chemical Society (ACS). By studying biological systems at the molecular level the students are prepared for direct entry into graduate-level chemistry, biochemistry, and biomolecular science programs and health related fields including medical school.

Bioinformatics helps reduce the cost of drug and vaccine development, permits unprecedented biological image analysis, and provides an understanding of biological processes that was unimaginable as recently as one decade ago.

Exploring the human genome

Biotechnology research is creating an exploding demand for welltrained bioinformatics professionals. RIT has responded to this need by offering BS and MS programs in bioinformatics. Courses are taught by faculty who are experts in biotechnology, computer science, and information technology. In laboratory exercises and assignments, you'll learn how to sequence DNA, then use sophisticated computer programs to analyze that sequence and predict molecular models. You will learn how to interpret vast amounts of data, predict targets for new drugs, and determine routes to gene therapy.

Get hands-on experience through co-op

A valuable aspect of an RIT education is the opportunity to integrate cooperative education experiences into your degree program. These short-term, full-time, paid jobs allow you to enhance your education in real-world situations. Bioinformatics students are prepared for cooperative work experience upon completion of their second year of the program.

BS/MS option available

Differentiate yourself in the job market by pursuing a combined BS/MS program in bioinformatics. This option can enrich your research experiences and better prepare you for further graduate education as well. Biologists conduct research to advance our knowledge of life and create solutions to medical, environmental, and agricultural challenges.

A flexible major

You'll start with foundation courses in biology, math, chemistry, and liberal arts and then submerge yourself in the biological sciences, studying animals, micro-organisms, and plants at the levels of molecules, cells, tissues, organisms, and populations. You will acquire a comprehensive set of practical skills, from the proper way to prepare cultures in the lab to the proper way to gather and analyze ecological data in the field. Undergraduate research is strongly encouraged and further strengthens your preparation for graduate study or employment.

Co-op is the difference

What sets RIT's biology major apart from the rest is the opportunity to participate in cooperative education. Co-op jobs are typically in research, laboratory support, or data analysis in private businesses, government agencies, and nonprofit organizations. RIT biology students have worked for hospitals, wildlife centers, veterinary clinics, and food and pharmaceutical companies.



Biomedical Engineering

Kate Gleason College of Engineering

Biomedical engineering applies the principles and theories of engineering to solve problems in the widely varied field of medicine.

A comprehensive curriculum

It is essential that biomedical engineers develop an intimate and precise understanding of the human body—the living system for which they will develop devices and procedures. Our curriculum stresses the development of a solid set of quantitative, analytical, and design skills that are specifically targeted toward biomedical endeavors. Throughout their studies, students will consistently correlate their engineering skills to human physiology and learn how engineering analysis and problem-solving methodologies can be leveraged toward the successful creation of devices, systems, and treatments related to biomedical applications.

Students can also develop a deeper understanding of an area within biomedical engineering by choosing a concentration of study involving areas such as biomedical device and system design; biomedical signal processing; physiological modeling, dynamics, and control; biomedical imaging; or biomaterials. One of the things that sets RIT's biomedical engineering major apart from other programs is approximately one year of cooperative education that allows students to apply the skills they learn in the classroom to the development of real medical solutions that make a difference in the lives of individuals.



Biotechnology and Molecular Bioscience

College of Science

Through biotechnology, we can improve a crop's resistance to natural enemies or engineer organisms to clean up the environment.

The nation's first biotech program

If you're fascinated by genetics and genetic engineering and interested in research, you'll want to take a close look at our biotechnology and molecular bioscience major. In addition to core biology, chemistry, math, and liberal arts courses, the curriculum focuses on the exciting and rapidly expanding field of genetic engineering and the almost unlimited potential that controlled genetic experiments have for improving the quality of life. Specialized areas of emphasis include recombinant DNA, mammalian and plant tissue culture, monoclonal antibody production and purification, large-scale fermentation techniques, and methods for characterization and separation of proteins and nucleic acids.

Leading-edge facilities

Performing experiments using modern equipment that is equal to that found in industry will help set you apart. You will gain an array of professional laboratory skills and build experience through lab work using state-of-the-art equipment used in the nation's leading labs and companies.



Medical Illustration

College of Art and Design

Combining art and science, medical illustrators provide visual support for the health sciences and medical instruction fields.

Combine your interests

From traditional carbon dust renderings to 3D animated digital imagery, medical illustration spans the full range of artistic media. Building on a foundation of drawing and design, you will learn how to translate anatomical and surgical sketches into instructional illustrations, courtroom exhibitions, computer graphics, and more.

The program combines the studies of the visual arts and science, including gross anatomy. Through collaboration with area hospitals, you will be able to draw from direct observation of operations in progress. Digital technology integrated into the studio environment enables you to create sophisticated images and well-designed, interactive, educational media presentations that include motion graphics and sound.

Our medical illustration major is one of the few in the world. As a medical illustrator, you can find career opportunities in medical research centers, textbook publishers, medical associations, pharmaceutical firms, and many other allied health companies.



Photographic Sciences

College of Art and Design

The photographic sciences major, with its options in biomedical photographic communications and imaging and photographic technology, prepares you for a career providing for scientific information via imagery.

Two options

Biomedical photographers are at the forefront of advances in medicine and science, whether photographing landmark surgery in an operating room or the rainbow of colors in a butterfly wing. You are prepared for a photographic career in forensics, research, hospitals, and other biological settings such as ophthalmic (eye) clinics, veterinary centers, and other life science situations. Lasers, computer-controlled cameras, high-speed film, stroboscopes, digital editing equipment—all these powerful tools are altering the face of photography, and at the forefront of these changes is the imaging and photographic technology option. This unique, applications-oriented program prepares you for careers in a technical, industrial, or scientific environment.

Certification

The biomedical photographic communications option provides the educational background for the registered biomedical photographer (RBP) certification after you enter the profession. Your course work also can be tailored to assist you in preparing for the certified retinal angiographer (CRA) exam.

Faculty at RIT are engaged.

They are committed. They will facilitate and mentor your learning experience. RIT is a place where you enjoy interaction with faculty—not only in class or during office hours, but in the hallways after class, in the Wallace Library, or over coffee. You get to know your professors and often build relationships that last a lifetime.



William Brewer is an American College of Sports Medicine certified Exercise Specialist and an adjunct faculty member of the worldrenowned Cooper Clinic. He

holds a bachelor's degree in health education and a master's degree in exercise science and health promotion. Brewer is developing an exercise science program to enhance the utilization of exercise as a therapeutic modality within the health care system. His experience includes corporate, commercial, and medical rehabilitative settings where he has worked as a health promoter and fitness specialist.



Cory Crane, an assistant professor in the biomedical science program, specializes in forensics, focusing primarily on the intersection of substance use and violent or

aggressive behavior. With the belief that you cannot treat medical issues without addressing mental health, Crane's research with fellow professor Caroline Easton is helping to shape proposed legislation in the treatment and prevention of domestic violence. Crane, who is also affiliated with the Canandaigua Veterans Affairs Medical Center, teaches courses on addiction pharmacology.



Caroline Easton is a forensic clinical psychologist. She is working to establish a clinical psychology program with a forensic emphasis and will collaborate with external

partners at Rochester Regional Health/ Behavioral Health Network, University of Rochester Medical Center Department of Psychiatry, Monroe County Criminal Justice System, and Monroe County Office of Mental Health. Easton's work in alternative therapy has attracted international attention. Based on her research on drug addiction, violence, and crime she has created therapies producing positive outcomes in reducing clients' aggression and helping them to manage their anger and abstain from drug use.



Hamad Ghazle, professor, advanced practice sonographer, and director of the diagnostic medical sonography program, sees teaching as more than an

eight-to-five job. "We can't just educate students to help them get jobs. I believe we have to teach them about what life is all about and prepare them to become leaders," he says. Ghazle has been honored for his teaching, having received the Eisenhart Award for Outstanding Teaching, the Student Affairs Award for Promoting Learning Outside the Classroom, and the Alpha Sigma Lambda Honorary Society Mentor Award.



Elizabeth Kmiecinski,

professor and co-chair of the nutrition management program, uses her extensive experience from her time as a Registered

Dietitian in the food and health care industries to help shape her lectures and classes. She received the 2009 – 2010 Outstanding Dietetic Educator Award for her work preparing undergraduate students for careers in the dietetic field.



Barbara Lohse, a leading researcher in community nutrition, leads the Wegmans School of Health and Nutrition. In her role, she defines the research

agenda for the school, which addresses critical health issues such as obesity, and promotes healthy lifestyles. Lohse's research centers on attitudes and behaviors pertaining to food, community nutrition, and nutrition education for low-income populations.



Robert Osgood, associate professor of biomedical sciences, is a vital part of the RIT-Rochester Regional Health Alliance through the research he conducts. He

joined forces with a Rochester General Hospital pediatrician in research of middle-ear and catheter-related infections. He brings this experience into the classroom to provide his students real examples of how biomedical sciences can make an impact on people's lives.

Elizabeth Perry is an assistant professor. She received her master's and doctoral degrees in neuroscience from the University of Rochester School of Medicine & Dentistry and teaches a variety of upper-level electives in endocrinology, neuroscience, and human development. Perry also serves as course instructor for the incoming biomedical sciences students and places a strong emphasis on active, interventional, and supportive faculty advising throughout the undergraduate career. She has been nominated for several teaching awards and is passionate about student-centered pedagogy and mentoring.



Laurence Sugarman,

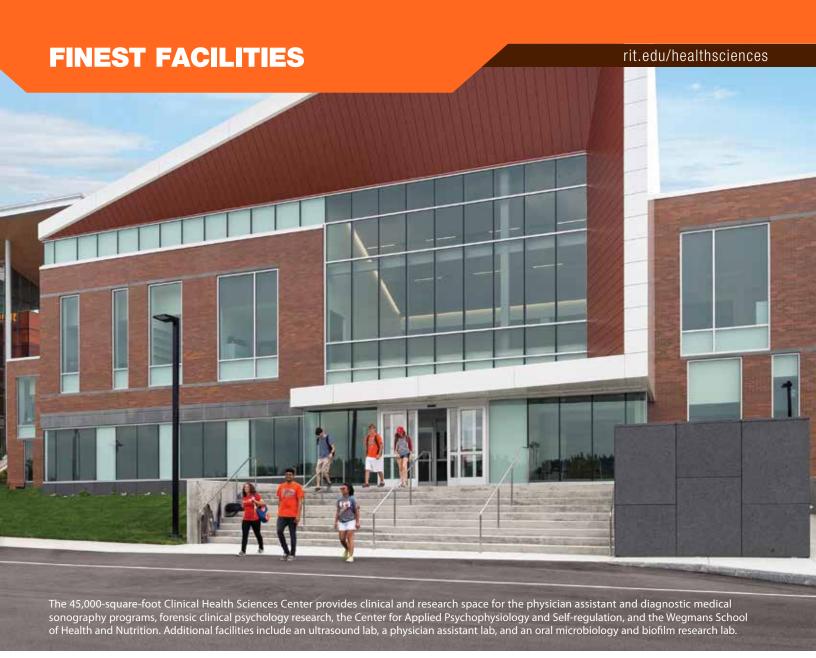
a research professor in the College of Health Sciences and Technology, was recently elected clinical editor of the peer-

reviewed American Journal of Clinical Hypnosis. He is the director of the Center for Applied Psychophysiology and Self-Regulation in RIT's Institute for Health Sciences and Technology, and a general and behavioral pediatrician at Easter Seals Diagnostic and Treatment Center. Sugarman also sits on the board of directors of AutismUp, the leading autism organization in Rochester with more than 2,000 members.



Bolaji Thomas, an associate professor of molecular biology, focuses his current research on infectious diseases, population genetics, and immunology.

He has received recognition for his academic and research endeavors from such world-renowned organizations as the American Association of Immunologists, The Wellcome Trust, Marine Biological Laboratories Fellowship, and UNDP/World Bank/WHO Special Program for Research and Training in Tropical Medicine.



The College of Health Sciences and Technology facilities provide a comprehensive environment to support academic, community, and career-training programs in the emerging life and medical sciences. The facilities consist of multipurpose, high-tech laboratories and classrooms for academic programs, research, K–12 student workshops, secondary school training programs, and workforce development.

In addition to the Clinical Health Sciences Center (pictured above), the college's facilities include the Center for Bioscience Education and Technology, a suite of laboratories equipped with state-of-the-art technology, which hosts:

- High-Tech Bioscience Classroom— This 1,050-square-foot "smart classroom" accommodates approximately 40 students with wireless access and a podium equipped for multimedia presentations.
- High-Tech Bioscience Teaching Laboratory—This 1,650-square-foot multipurpose teaching laboratory accommodates 20 students.
- Anatomical Studies Laboratory— This 1,450-square-foot laboratory is dedicated to teaching human anatomy through cadaver dissection to 24

students at a time enrolled in biomedical science, premedical/predental studies, diagnostic medical sonography, echocardiography, biomedical engineering, medical illustration, and physician assistant programs. The lab includes six cadaver tables, and displays of computer-based images or video sequences to assist dissection.

 Histopathology and Forensic Medicine Laboratory—This 968-square-foot laboratory supports a variety of bioscience curricula pertaining to cell and tissue structure. New upper-division classes in forensic medicine and microbiology teach students cutting-edge science.
 This laboratory has a 16-student capacity.

EXPERIENTIAL LEARNING







RIT offers extraordinary oppor-

tunities beyond the structure of your program to enhance your resume and deepen your experience and knowledge in the field of your choice. With undergraduate research and our Study Abroad program, as well as the experiential learning opportunities reviewed on the previous page, you have options that will put you far ahead of the crowd upon graduation.

Cooperative education

Cooperative education (co-op) provides an opportunity to put classroom lectures, textbook theories, and your personal initiative to the ultimate test—performance in the work place. RIT has the fourth oldest and one of the largest cooperative education programs in the world. Hundreds of companies—from Fortune 500 firms to smaller, privately owned companies—come to campus each semester to recruit students for co-op positions. There's no question that RIT's cooperative education program provides you with a competitive advantage over science graduates from other colleges and universities.

Clinical internships

Many of the academic majors in the college offer students the opportunity to gain work

experience through cooperative education, while other programs require some type of internship. Students in the physician assistant major have mandatory rotations in fields of general clinical practice that build a solid, basic understanding of their field. These required rotations are family medicine, geriatrics, orthopedics, emergency medicine, OB/GYN, pediatrics, surgery, general medicine, and psychiatry. Students also are able to select one elective rotation, which allows students to individualize their experiences according to their own areas of interest. For the diagnostic medical sonography major, a clinical internship year is required. This provides hands-on experience at two or more medical facilities in upstate New York or at approved regional and national medical ultrasound facilities. All students begin the internship by attending an intensive, five-week experience on campus. During this time, they learn how to perform complete sonographic examinations and to recognize anatomy and disease states using equipment in the state-of-the-art ultrasound laboratory. Students also learn about hospital departmental and administrative operations. After completing the requirements, candidates are assigned to a medical training site for clinical experience in various ultrasound specialties.





Undergraduate research

Undergraduate students can engage in research as early as their freshman year, working alongside faculty to conduct original research. You'll carry out all of the experiments, and analyze and interpret the results. You can earn credit toward your degree while you gain valuable, hands-on experience. Our students regularly present their findings at national and international scientific meetings and conferences, or publish their work in professional science journals.

Study abroad

There's no better way to gain an understanding of another culture than to experience it firsthand. To prepare you for success in our global society, RIT offers a range of exciting study abroad opportunities that expand your horizons in every sense. You can immerse yourself in another culture through our Study Abroad programs offered in cooperation with RIT Croatia, RIT Dubai, Queens University (England), University of Osnabruck (Germany), or Kanazawa Institute of Technology (Japan). In programs affiliated with other institutions, RIT students also have the opportunity to study in Italy, Spain, France, Ireland, Australia, China, Kenya, New Zealand, Germany, Greece, and other international locations.

Graduate School

Our students enjoy a high rate of acceptance into top-tier graduate programs. Here is a list of the institutions attended by recent College of Health Sciences and Technology graduates.

Appalachian State University Binghamton University Columbia University Cornell University Drexel University Keene State University Lake Erie College of Osteopathic Medicine Massachusetts College of Pharmacy and Health Sciences Massachusetts General Hospital Meredith College Miami Valley Hospital Morrison Chartwells National College of Natural Medicine Nazareth College New York Chiropractic Northern Illinois University Rochester Institute of Technology The Sage College— Sage Graduate School St. John Fisher College Seton Hall University Sodexho South Coast Health System Soma Institute Southern California University of Health Sciences Stony Brook University SUNY Oneonta SUNY Upstate Syracuse University Temple University Thomas Jefferson University University at Buffalo University at Buffalo School of Dental Medicine University of Albany University of California-Fresno University of California, San Diego University of Cincinnati University of Connecticut University of Maryland Medical Center University of Massachusetts University of Michigan University of Minnesota Medical Center University of Missouri University of Pennsylvania University of Rochester Villanova University West Va. School of Osteopathic Medicine

Co-op and Permanent Placement

Examples of co-op and permanent employers of College of Health Sciences and Technology students and graduates.

The Advisory Board Company Bako Pathology Services Borg and Ide Imaging Broad Reach Healthcare at Liberty Commons Certified Medical Illustrations Children's Hospital at Montefiore Cleveland Clinic Columbia University Duke University Medical Center eHealth Technologies Epic Georgetown University Healthcare Services Group Inc. iCardiac Technologies Jewish Community Center of Greater Rochester Johns Hopkins School of Medicine Lab Synergy Ludwig Maximilian University of Munich Massachusetts Eye and Ear Infirmary McNeil Consumer Healthcare— Johnson & Johnson The Mount Sinai Hospital National Institutes of Health OncoPlex Diagnostics Rochester Eye & Human Parts Bank Rochester Regional Health Rogers Science's Inc. Rutgers University ScribeAmerica Sodexo St. Ann's Community St. John's Home **UNC Health Care** Unity Health Services University of Colorado Health System University of Connecticut University of Georgia— Department of Microbiology University of Kansas University of Michigan University of Rochester University of Virginia Health System Walter Reed National

Military Medical Center

The College of Health Sciences and Technology

has a wide range of academic options for students who want to expand their educational experience. You can pursue a minor in a second area of science and mathematics, add a liberal arts or business minor to complement your studies, or enroll in a study abroad, BS/MS, or Honors program.

Accelerated dual-degree programs

If you're looking for a way to further distinguish yourself from the crowd, you may want to combine undergraduate and graduate studies in accelerated options such as BS/MS or 4+1 MBA programs. These options allow you to earn both a bachelor's and a master's degree in less time than it would normally take to complete each degree separately. Most accelerated programs require students to complete freshman and sophomore course work at RIT before being considered for entry into a dual-degree program. With careful scheduling, you can still complete several blocks of co-op and even study abroad while earning two degrees.

Honors Program

The Honors Program admits approximately 150 entering freshmen each year. The Honors Program features several distinctive and complementary components:

- · Honors courses
- Research and professional development
- Complementary learning experiences (annual volunteering and community service projects)
- · Honors advising and mentoring
- Honors residence

Outstanding upperclass students who have distinguished themselves academically and as contributing members of the campus community also may apply for sophomore or junior admission to the Honors Program.



Minors and immersions

Minors and immersions can give you a secondary area of expertise or the chance to explore other areas of interest to you. They may complement your major, broaden your career options, or expand your personal interests. For the most current list of minors and immersions please visit rit.edu/minors and rit.edu/immersions.

Accounting • Advertising and Public Relations African Studies A American Art American Politics American Sign Language and Deaf Cultural Studies Anthropology and Sociology • Applied Statistics Archaeological Science Archaeology A Art History ●▲ Astronomy • Bioinformatics Analysis • Biology A Biology: Cellular and Molecular • Biology: Ecology and Evolution • Black Studies • Business Administration • Chemical Engineering Systems Analysis • Chemistry • Communication • Computer Engineering • Computer Science Computing Security • Construction Management • Creative Writing Criminal Justice Cultural Anthropology A Database Design and Development • Digital Business • Digital Literatures and Comparative Media Diversity in the U.S. A Economics •

Electrical Engineering •

Entrepreneurship •

English •

F.thics

Engineering Management •

Environmental Modeling •

Environmental Science

Environmental Studies

Exercise Science Film Studies Finance • Flexible Packaging • Free and Open Source Software and Free Culture Game Design • Game Design and Development • Geographic Information Systems • Global Justice A Global Literatures and Cultures • Globalization • Globalization Theory A Health Communication • Health and Culture • Health IT • History • Hospitality Management • Human Language Technology and Computational Linguistics A Imaging Science Imaging Systems • Industrial Engineering • Innovation International Business International Relations Journalism Language Science Latino/Latina/Latin American Studies • Legal Studies • Linguistic Anthropology A Management • Management Information Systems • Marketing • Mathematics • Mechanical Engineering • Media Arts and Technology • Microelectronic Engineering • Military Studies and Leadership • Mobile Design and Development •

Mobile Development • Modern Language (Arabic, Chinese, French, German, Italian, Japanese, Portuguese, Russian, Spanish) Modern Languages and Cultures (Arabic, Chinese, French, German, Italian, Japanese, Portuguese, Russian, Spanish) A Museum Studies • Music 🔺 Music Performance Music and Technology • Native American and Indigenous Studies A Networking and Systems Administration • Nutritional Sciences Optical Science Packaging Science Philosophy Physics • Political Science Public Policy ●▲ Religious Studies A Renaissance Studies A Science of Film, Photography and Imaging A Science, Technology, and Society • Science and Technology Studies A Social Inequalities A Software Engineering • Structural Design • Supply Chain Management • Sustainable Product Development • Theater Arts Urban Studies A Visual Culture Water Resources • Web Design and Development Web Development • Women's and Gender Studies •



Aerial image courtesy of Stratus Imaging

RIT in Brief

COLLEGES AND DEGREE-GRANTING UNITS:

College of Art and Design

School for American Crafts

School of Art

chool of Desi

School of Film and Animation

School of Photographic Arts and Science

Saunders College of Business

B. Thomas Golisano College of Computing and Information Sciences

Kate Gleason College of Engineering

College of Engineering TechnologySchool of Media Sciences

College of Health Sciences and Technology Wegmans School of Health and Nutrition

College of Liberal Arts

National Technical Institute for the Deaf

College of Science

Chester F. Carlson Center for Imaging Science Thomas H. Gosnell School of Life Sciences School of Mathematical Sciences School of Chemistry and Materials Science School of Physics and Attronomy

Golisano Institute for Sustainability

School of Individualized Study

FOUNDED IN 1829, Rochester Institute of Technology is a privately endowed, coeducational university with nine colleges and two degregranting units emphasizing career-focused education and experiential learning.

THE CAMPUS occupies 1,300 acres in suburban Rochester, the third-largest city in New York state. RIT also has international campuses in China, Croatia, Dubai, and Kosovo.

DEGREES: RIT offers the following degrees: doctoral (Ph.D.) programs in astrophysical sciences and technology, color science, computing and information sciences, engineering, imaging science, mathematical modeling, microsystems engineering, and sustainability; master's degree programs: master of architecture (M.Arch.), master of business administration (MBA), master of engineering (ME), master of fine arts (MFA), master of science (MS), and master of science for teachers (MST); bachelor's degree programs: bachelor of fine arts (BFA) and bachelor of science (BS); and associate degree programs: AS, AOS, AAS.

THE RIT STUDENT BODY consists of approximately 15,700 undergraduate and 3,250 graduate students. Enrolled students represent all 50 states and more than 100 countries. More than 3,400 students from diverse racial and ethnic backgrounds are enrolled on the main campus along with nearly 2,700

international students. An additional 2,188 students are enrolled at RIT's international campuses.

RIT is an internationally recognized leader in preparing deaf and hard-of-hearing students for successful careers in professional and technical fields. The university provides unparalleled access and support services for the more than 1,100 deaf and hard-of-hearing students who live, study, and work with hearing students on the RIT campus.

RIT ALUMNI number nearly 125,000 worldwide.

COOPERATIVE EDUCATION provides paid careerrelated work experience in many degree programs. RIT has the fourth-oldest and one of the largest cooperative education programs in the world, annually placing more than 4,400 students in nearly 6,300 co-op assignments with nearly 2,300 employers across the United States and overseas.

The RIT LIBRARIES consist of Wallace Library, the RIT Archive Collections, and the Cary Graphic Arts Collection. Wallace Library provides a vast array of resource materials, both print and online, and is open 24/5 during the academic year. Librarians associated with each college are ready to assist with research and class assignments. The RIT Archive Collections serves as the official repository for RIT's historically valuable records and artifacts. The Cary Collection is one of the country's premier libraries on graphic communication history and practices, and has a policy of liberal access for all students. For more information: http://library.rit.edu.

HOUSING: Many of RIT's full-time students live in RIT residence halls, apartments, or townhouses on campus. On-campus fraternities, sororities, and special-interest houses are also available. Freshmen are guaranteed housing.

STUDENT ACTIVITIES: Major social events and activities are sponsored by the College Activities Board, Residence Halls Association, sororities, fraternities, and special-interest clubs of many kinds. There are more than 300 clubs and student organizations on campus.

ATHLETICS: Men's Teams—baseball, basketball, crew, cross country, ice hockey (Division I), lacrosse, soccer, swimming, tennis, track, and wrestling Women's Teams—basketball, crew, cross country, ice hockey (Division I), lacrosse, soccer, softball, swimming, tennis, track, and volleyball

RIT offers a wide variety of activities for students at all levels of ability. More than 50 percent of our undergraduate students participate in intramural sports ranging from flag football to golf to indoor soccer. Facilities include the Gene Polisseni Center, which houses RIT's hockey arena and

accommodates 4,300; the Gordon Field House, featuring two swimming pools, a fitness center, indoor track, and an event venue with seating for 8,500; the Hale-Andrews Student Life Center, with five multipurpose courts, eight racquetball courts, and a dance/aerobics studio; the Ritter Ice Arena; and outdoor facilities including an all-weather track, tennis courts, and several athletic fields.

EXPENSES: Full-time students enrolling for the first time and living in an RIT residence hall have the following 2018-19 academic year expenses. We estimate that the typical student also spends an average of \$2,054 per year for books, transportation, and personal expenses.

Charges	2018-2019 Academic Year (two semesters)	NTID*
Tuition	\$43,546	\$16,518
Room (double)	7,598	7,598
Board (standard plan)	5,448	5,448
Fees	584	584
Total	\$57,176	\$30,148

*Deaf and hard-of-hearing students who are U.S. citizens enrolled in any undergraduate program and students enrolled in the ASL-English interpretation major will pay these charges instead of the regular academic year charges.

VISITS TO CAMPUS are encouraged and may be arranged in advance by calling 585-475-6631. Deaf and hard-of-hearing students may arrange campus visits by calling 585-475-6700, toll free in the U.S. and Canada at 866-644-6843, or by videophone at 585-743-1366.

HOME PAGE: www.rit.edu
EMAIL: admissions@rit.edu
UNIVERSITY COLORS: Orange

UNIVERSITY COLORS: Orange and brown UNIVERSITY MASCOT: Bengal tiger "Ritchie" UNIVERSITY ATHLETIC TEAMS: Tigers

RIT does not discriminate. RIT promotes and values diversity within its workforce and provides equal opportunity to all qualified individuals regardless of race, color, creed, age, marital status, sex, gender, religion, sexual orientation, gender identity, gender expression, national origin, veteran status, or disability.

The Advisory Committee on Campus Safety will provide, upon request, all campus crime statistics as reported to the United States Department of Education. RIT crime statistics can be found at the Department of Education website, http://ope.ed.gov/security, and by contacting RIT's Public Safety Department at 585-475-6620 (v/tty).

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