CHANGING THE WORLD, DOWN TO A SCIENCE.

ACADEMIC GUIDE

PROVEN VALUE, ON CAMPUS AND ONLINE.
THE WORLD NEEDS LEADERS IN HEALTHCARE AND SCIENCE.

Uniquely focused on healthcare and the sciences, University of the Sciences builds the foundation for professional success by providing students with a concentrated curriculum, hands-on education, and real-world experiences.

Our graduates go on to prove themselves around the world—the proof is in their employment, research, innovation, leadership, and achievement. Let us prepare you to make your mark and be proven everywhere you go.
Benefit from a fixed tuition and general fee* for the course of your education.

You’ll know the full price to earn that degree from the day you begin—no hidden fees or annual tuition increases, unlike other institutions. And scholarships are available.

* This pricing does NOT include room and board, health insurance, or any professional, clinical, or transportation fees.

#1 in PA, NJ, & DE & TOP 10 IN U.S.

FOR RETURN ON INVESTMENT

40 years after enrollment among private four-year institutions

(A First Try at ROI: Ranking 4,500 Colleges, Georgetown University, 2019)

#1 FOR SOCIAL MOBILITY

Preparing students for health professions that rank among the

BEST HEALTHCARE JOBS IN THE U.S.

- Dentist
- Occupational therapist
- Pharmacist
- Physical therapist
- Physician
- Physician assistant
- Veterinarian

*Compared to 42 other Philadelphia-area institutions. (The Social Innovations Journal 2018 rankings on social mobility)
UNIQUELY FOCUSED ON HEALTHCARE AND SCIENCE.

Founded in 1821 as Philadelphia College of Pharmacy, the first college of pharmacy in North America, University of the Sciences offers a wealth of science- and healthcare-focused majors and degree options, successful pre-health professions preparation, and direct-entry admission into pharmacy, physical therapy, and occupational therapy programs.

Students from USciences also benefit from the flexibility of a range of articulation agreements, allowing entry into USciences programs or special admission consideration to USciences students seeking to earn advanced degrees from other institutions.
**LAB TESTED. REAL-WORLD PROVEN.**

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<th>QUALITY INTERNSHIP OPPORTUNITIES</th>
<th>100+LABS</th>
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<td>in a close-knit learning environment</td>
<td>Hands-on research as early as your first year.</td>
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**FOCUS ON PATIENT CARE**
Get out of the traditional classroom and into hospitals and laboratories

**11:1 STUDENT/FACULTY RATIO**

**WORK IN THE FIELD**
Work in the field, directly with patients in actual CLINIC SETTINGS

**INTEGRATED DEGREE PROGRAMS**
Begin graduate coursework while completing your undergraduate degree and earn a master’s or PhD in less time than a traditional program.

Refer to usciences.edu/programs for a full list including our graduate degree offerings.

**OUR STUDENTS MAJOR IN OUTCOMES.**

A wealth of EMPLOYMENT OPPORTUNITIES near our beautiful, green urban campus.
Take a tour at: usciences.edu/tour

Greater Philadelphia, home to:

- 800+ life sciences, pharmaceutical, and biotech companies
- 14 major health systems with 100+ hospitals
- 2,000+ medical technology companies
- 7 medical schools
BIOLOGY (BS, Minor)*: Discover the science of life as you gain the foundation to pursue professional studies in medicine, pharmacy, dentistry, and more. Specializations: animal, cellular/subcellular, clinical, interdisciplinary, plant, and population biology.

Career Opportunities: Gain admission to medical, veterinary, dental or other professional schools. Perform research and aid discovery in medicine and pharmaceuticals, microbiology, and biotechnology. Teach science in public or private schools, or with further education, at universities and colleges, or in public venues like zoos, museums, and nature centers. And, much more.

BIOMEDICAL SCIENCES (BS)*: Put your foundational scientific knowledge into practice as you learn to spur innovation in interventions, technology, and care. Specializations: neuroscience, clinical science, biotechnology, and physician assistant.

Career Opportunities: Become a science and health writer, creating industry materials or informing the public. Gain admission to medical, veterinary, dental or other professional schools. Pursue a law degree with a scientific foundation to handle biological/medical patent laws, ethically sensitive, complex cases or advise lawmakers at all levels of government.

ENVIRONMENTAL SCIENCE (BS, Minor): Take on all aspects of the complex environmental issues facing society as you pursue research, community awareness, education about health issues, and administration and enforcement of laws.

Career Opportunities: A degree in environmental science will prepare you for entry-level positions in private industry, the nonprofit sector and governmental agencies. Graduates of the program will also be well prepared to pursue further academic training in environmental planning, law, management, and sciences.
MEDICAL HUMANITIES (BS)*: Ground your studies in the natural sciences while you explore the humanities including history, philosophy, literature, and ethics.

Career Opportunities: This major offers excellent preparation for advanced study, research, and professional growth. Graduates of this curriculum are prepared for employment and success in many fields including, environmental law and policy, public health service, public administration, clinical research, and more.

MEDICAL LABORATORY SCIENCE (BS with certification; three years of academic study and one year of clinical rotations in a hospital setting): Become a healthcare detective as you analyze blood, urine, tissue, or other body specimens, and use these test results to play an important role in the detection, diagnosis, and treatment of disease.

Career Opportunities: Medical laboratory scientists are in high demand, and government economists expect job growth for medical scientists, to be much faster than the average for all careers through 2020. Upon completion of the program, you have a wealth of career options. Potential worksites include forensic laboratories, hospitals, research clinics, and pharmaceutical companies.

MICROBIOLOGY (BS, Minor)*: Study life that cannot be seen with the naked eye as you examine how these microorganisms live, affect us, and affect the environment. Search for answers to practical problems in health and medicine, food production and preservation, alternative energy, and infectious disease control. Specializations: applied microbiology and biotechnology & medical microbiology and immunology.

Career Opportunities: You will have many career opportunities available to you upon graduation. These include positions in clinical, government, academic, and industrial settings. Additionally, a bachelor’s degree in microbiology is an excellent background for continuing studies leading to degrees in medicine, dentistry or veterinary science or other advanced academic degrees based in research or public health.

NEUROSCIENCE (BS, Minor)*: Unlock the secrets behind what we do, how we think, and what affects us as you examine the nervous system across theoretical and clinical contexts. Specializations: molecular and medicinal, clinical, and theoretical neuroscience.

Career Opportunities: A Neuroscience degree will position you to thrive in graduate, medical, or health professional school. Conduct research in areas such as theoretical modeling of the nervous system, neurobiology, or neuropsychology. Or Serve the public as a healthcare provider.

*Pre-Health Professions Option: The pre-health professions curriculum is built into these programs, allowing students to prepare for medical, dental, optometry, or veterinary school while completing their bachelor’s degree program.
EXERCISE PHYSIOLOGY (BS, Minor): Understand the structure, function, and processes of the body and the multidimensional nature of wellness. Opportunity to become certified as an exercise physiologist or a strength and conditioning specialist.

Career Opportunities: Clinical exercise physiologist, cardiovascular rehabilitation specialist, corporate wellness director, fitness trainer, health educator, strength and conditioning specialist. Some of our graduates also choose to further their studies and enter a variety of healthcare professions including athletic training, clinical exercise physiology, physical therapy, occupational therapy, public health, or health-related research.

HEALTH SCIENCE (BS): Ensure a patient receives the vital care they need as you master the chemistry behind medicine and delivery mechanisms in a blend of science and patient care.

Career Opportunities: Health advocate, health educator, community outreach specialist, community services director, worksite wellness coordinator, case manager, pharmaceutical sales, social services, and research.

OCCUPATIONAL THERAPY (DrOT, direct-entry**, 6 years): Can be completed in 6 years with no GRE required, no reapplication necessary, seat reserved for entire length of program as long as progression standards are met. Help patients with physical, developmental, and behavioral disabilities as you build their skills and promote independence.

Career Opportunities: Occupational therapist. Our graduates work in a variety of fields including in-patient, out-patient, acute rehabilitation, skilled nursing facilities, hospitals, schools, and in the community—after passing the NBCOT—the occupational therapy licensing exam.

HEALTH SCIENCES

Health sciences is a multidisciplinary field that actively combines bio-medical, psycho-social, organizational, and societal aspects of health, disease, and healthcare. Our programs take a hands-on approach to learning, using state-of-the-art tools in real-world settings.
**PHYSICAL THERAPY** (DPT, direct-entry**, 6 years): Can be completed in 6 years with no GRE required, no reapplication necessary, seat reserved for entire length of program as long as progression standards are met. Learn how you can help patients recover from injury, reduce pain, increase mobility, and improve the quality of life.

**Career Opportunities:** Physical therapist. Our graduates go on to work in a variety of settings including hospitals, clinics, home health, in-patient, out-patient, schools, and sports medicine. PTs are required to pass the NPTE—the licensing exam.

**PHYSICIAN ASSISTANT** (Pre-Professional): Prepare for graduate studies as you combine foundational coursework with patient contact and shadowing hours in this pre-professional program.

**Career Opportunities:** Opportunity to apply to University of the Sciences’ Masters in Physician Assistant Studies (MSPAS) program after either three or four years of pre-professional study, or opportunity to apply to Salus University’s MSPAS program or other MSPAS programs across the country after four years of pre-professional study. Physician assistants are employed in almost every type of health care setting alongside physicians.

**PSYCHOLOGY** (BS, Minor)*: Examine the biological basis of behavior as you study the relationship between physical health, mental well-being, and other aspects of thought, emotion, and motivation.

**Career Opportunities:** Psychologists work in a variety of settings including hospitals, clinics, and private practices; colleges and universities; and across businesses, government agencies, and other organizations. Some graduates may choose to pursue an advanced degree in psychology, attend law school or medical school, or enter another health professions program.

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*Pre-Health Professions Option: The pre-health professions curriculum is built into these programs, allowing students to prepare for medical, dental, optometry, or veterinary school while completing their bachelor’s degree program.

**Direct-Entry:** No PCAT/GRE required, no reapplication necessary, seat reserved for entire length of program as long as progression standards are met.
PHARMACEUTICAL SCIENCES

The pharmaceutical sciences improve patient care and health, and also impact how drugs are created, evaluated, delivered, tested, manufactured, distributed, and sold.

PHARMACEUTICAL CHEMISTRY (BS)*: Understand drug development, from design to delivery, as you learn to fight disease and promote healthier, more active lives.

PHARMACEUTICAL SCIENCES (BS)*: Explore how drugs act in the body, how they interact with other materials, and how they are transformed into finished products as you focus on delivery, development, manufacture, and evaluation of drug products.

PHARMACOLOGY AND TOXICOLOGY (BS, MS, PhD)*: Identify new cures through advanced study as you explore the beneficial and adverse effects of drugs and chemicals on the body.

Career Opportunities: Quality control and assurance, technical services, regulatory affairs, packaging, drug safety and compliance, research, regulation, product development, production and manufacturing.

Industries: Pharmaceuticals, cosmetics, government, specialty laboratories, biotechnology companies; community, hospital, and clinical pharmacies.
PHARMACEUTICAL AND HEALTHCARE BUSINESS (BS, Minor, MBA, Certificate): Merge marketing, consulting, sales, and advertising with science as you gain a unique angle into the business of pharmaceuticals and healthcare.

Career Opportunities: Advertising, brand management, clinical trials management, consulting, entrepreneurship, managed markets, marketing, marketing research, medical communications, medical education, nonprofit management, project management, public health, public relations, regulatory compliance, sales of pharmaceuticals/biologics/medical devices/diagnostics, and supply chain and logistics.

PHARMACY (PharmD, direct-entry**, six years): Can be completed in six years with no PCAT/GRE required, seat reserved for entire length of program as long as progression standards are met, graduates must pass the NAPLEX—the licensure exam for pharmacy—before being able to practice. Blend science and patient care as you master the chemistry behind medicine and delivery mechanisms to ensure a patient receives the vital care they need.

Career Opportunities: Our graduates go on to become pharmacists in a variety of fields including hospitals, clinics, regulatory agencies, managed care organizations, pharmaceutical companies, and community pharmacies. Some graduates may choose to open up their own pharmacies, and some pursue residencies and fellowships.

*Pre-Health Professions Option: The pre-health professions curriculum is built into these programs, allowing students to prepare for medical, dental, optometry, or veterinary school while completing their bachelor’s degree program.

**Direct-Entry: No PCAT/GRE required, seat reserved for entire length of program as long as progression standards are met.
PHYSICAL SCIENCES

The physical sciences help to answer questions about the underlying laws of nature. Our chemistry, biochemistry, and pharmaceutical chemistry programs are certified by the American Chemical Society. Our biochemistry program is also accredited by the American Society For Biochemistry And Molecular Biology.

BIOCHEMISTRY (BS, Minor, MS, PhD)*: Explore the fabric of life itself as you study the dynamics and reactions of the molecules that comprise all cells.

Career Opportunities: Work or continue your education in chemical aspects of health, environment, forensics, materials, food, cosmetics, production of chemicals and pharmaceuticals, and many more science and technology fields. Gain admission to medical, dental or other professional schools. Or pursue an advanced degree in science or engineering.

CHEMISTRY (BS, Minor, MS, PhD)*: Study “the central science” and examine the basic building blocks of matter that make up the world around us.

Career Opportunities: Your chemistry major positions you to work or continue your education in chemical aspects of health, environment, forensics, materials, food, cosmetics, production of chemicals and pharmaceuticals, and many more science and technology fields.
PHARMACEUTICAL CHEMISTRY (BS)*: Drive the design and production of new drugs that enable you to fight disease and promote healthier, more active lives.

Career Opportunities: A Pharmaceutical Chemistry degree leads to graduate or medical, dental or other professional schools. You may pursue an advanced degree in science or engineering. You may choose to enter fields such as government regulations, research and development, or quality control—employment sectors that have traditionally been in demand. Or you may gravitate to growing areas such as data science, intellectual property, and technology transfer.

PHYSICS (BS, Minor)*: Discover the deepest mysteries of science at all levels, from subatomic particles to galaxies, as you prepare for a myriad of career paths. Specializations: astrophysics, biophysics, general physics, materials science, medical physics, and pre-health.

Career Opportunities: Your physics training gives you the ability to work as an engineer, medical physicist, materials scientist in universities, national laboratories such as NASA, NIH, NIST, DOE, and FDA, semi-conductor companies like Intel, AMD, biomedical firms, defense contractors such as Boeing and Raytheon, or as a financial analyst at Wall Street. Your programming skills allow you to work as a software engineer. You can also work as a program manager or technical writer.

DATA SCIENCE (BS): Get the knowledge, skills, and technical foundation to make sense of an avalanche of data, unlock scientific insights, and tackle multidisciplinary problems. Work with data from a variety of sources/formats, to solve real-world problems. Learn to evaluate data quality and maintain data integrity, security, and privacy, and effectively communicate results of data analyses.

Career Opportunities: As more industries recognize the impact data can have on their return on investment, doors will open to professionals with backgrounds in data science, including data scientist, data analyst, business analyst, data mining specialist, and data manager. Relevant industries include healthcare, automation, artificial intelligence, gaming, meteorology, insurance, agriculture, and sports.

*Pre-Health Professions Option: The pre-health professions curriculum is built into these programs, allowing students to prepare for medical, dental, optometry, or veterinary school while completing their bachelor's degree program.
**FIRST YEAR STUDENTS**

- **FREE application via Common App:** [commonapp.org](http://commonapp.org)
- Submit official transcripts from all high schools attended, including a list of senior year coursework.
- **SAT or ACT Scores are not required for Admission.** If you have scores that you would like to submit, we superscore the SAT, and use the best composite score on the ACT.
  
  USciences test codes: ACT: 3671, SAT: 2663
- Complete one of the Common Application essay prompts.
- Submit a letter of recommendation. Up to two additional letters may be submitted. You can use our recommendation form: usciences.edu/UGLetter
- Transcripts and letters of recommendation can be emailed to admit@usciences.edu or mailed to: 
  
  Admission Office, University of the Sciences, 600 South 43rd St., Philadelphia, PA 19104
- Be sure to file for the Free Application for Federal Student Aid (FAFSA). Opens October 1 (FAFSA code 003353)

**TRANSFER STUDENTS**

**Traditional Bachelor Degree Programs**

- We require a 2.5 GPA for general admission, and a 2.7 GPA for those students applying to: biology, biomedical sciences, neuroscience, medical laboratory science, environmental science, microbiology, and the Pre-Professional phase of the doctor of pharmacy program.
- You may transfer into either Spring or Fall term
- Deadline to receive materials for Spring term is November 1, Fall term is July 1
- Students are automatically considered for a merit scholarship award at the time of application review.

To apply:

- Apply via Common App for Transfer (applications are free)
- Submit official transcripts from all colleges and/or universities attended
- Submit official high school transcripts or an official copy of a General Equivalency Diploma (GED). (Waived if you have an Associate’s degree or 30+ college credits prior to enrollment at USciences.)
- Submit official SAT or ACT scores (if you have 24+ credits you do not have to submit)

**Professional Degree Programs**

The application process for transferring into a professional program varies by program. Visit usciences.edu/TransferApply for more information.
**PROGRAMS**

Biochemistry*: BS | Minor | MS | PhD
Bioinformatics: Minor | MS
Biology*: BS | Minor
Biomedical Sciences*: BS
Biophysics: Minor
Biostatistical Methods with SAS Programming: Certificate
Biotechnology: Certificate
Brewing Science: Certificate
Business, Pharmaceutical and Healthcare:
  BS | Minor | MBA | Certificate
Business of Medical Marijuana and the Cannabis Industry, The: Certificate (Online)
Cancer Biology: PhD
Cell Biology and Biotechnology: MS
Cell and Molecular Biology: PhD
Chemistry*: BS | Minor | MS | PhD
Communication: Minor
Data Science: BS | Minor
Environmental Science: BS | Minor
Exercise Physiology: BS | Minor
Genomics: MS (Online) | Certificate (Online)
Health Administration: BS (Online) | MS (Online) | Certificate (Online)
Health Education and Communication: Certificate
Health Informatics: MS (Online) | Certificate (Online)
Health Psychology: MS
Health Science: BS
Humanities: Minor
Marketing: Minor
Mathematics: Minor
Medical Cannabis for Health Professionals: Certificate (Online)
Medical Cannabis Retail Operations and Sales: Certificate (Online)
Medical Humanities*: BS
Medical Laboratory Science: BS
Medical Marijuana and the Cannabis Industry, The Business of: Certificate (Online)
Microbiology*: BS | Minor
Neuroscience*: BS | Minor
Occupational Therapy**: DrOT | MOT
Pharmaceutical Chemistry*: BS
Pharmaceutical Sciences*: BS
Pharmacuetics: MS, PhD
Pharmacognosy: MS, PhD
Pharmacology and Toxicology*: BS | MS | PhD
Pharmacy**: PharmD
Physical Therapy**: DPT
Physician Assistant: Pre-Professional Program | MSPAS
Physics*: BS | Minor | Integrated BS/MS
Pre-Health Professions (Pre-Medicine, Pre-Veterinary Medicine,
  Pre-Dentistry, Pre-Optometry): Program
Pre-Med: Program
Psychology: BS | Minor
Public Health: BS (Online)
Social Sciences: Minor
Spanish: Minor
Spanish for Healthcare Professionals: Certificate
Statistics: Minor
Undeclared: Program

*PRE-HEALTH PROFESSIONS OPTION
The pre-health professions curriculum is built into these programs, allowing students to prepare for medical, dental, optometry, or veterinary school while completing their bachelor's degree program.

**DIRECT-ENTRY
No PCAT/GRE required, seat reserved for entire length of program as long as progression standards are met.