

UNDERGRADUATE PROGRAMS

choose how you want to explore and discover

cst.temple.edu



College of Science
and Technology

THE COLLEGE OF SCIENCE AND TECHNOLOGY

At CST, our focus is building community, opportunity and a culture of discovery. CST offers more than 30 majors, so you can choose how you want to explore and discover. With world-class faculty, caring advisors and dozens of student organizations, you will have the support to thrive during your time at Temple University. CST prepares you for careers, top graduate and professional programs or wherever science and tech take you.

community

Feel supported every step of the way

CST's First-Year Advising Team sets students up for success right from the start, with tips on how to achieve academic goals. And discipline-specific advising starts sophomore year right through to graduation. Our First Gen Initiative offers resources for students who are the first in their families to attend college.

Join a club or student organization

Temple and CST are home to many science-related student clubs and organizations. Each has a different goal and offers unique opportunities such as service hours, shadowing or internships, career information, guest speakers and leadership opportunities.

Connect to alumni and the city

Part of the university's 360,000 alumni, CST's Alumni Board and its Owl to Owl Mentoring Program are great resources for current students and young graduates. Students can also network with Philadelphia's thriving business community and hub for biotechnology, healthcare and pharmaceuticals. Or connect to additional research opportunities through the region's hospitals, universities and research institutes.

opportunity

Work with experienced faculty

Across disciplines, CST's internationally recognized scientists—who helped power Temple University's rise to R1 status and increased scientific impact as measured by Google Scholar citations—are advancing research on materials, energy, genomics, molecular science, data science and biodiversity.

Gain real-world research experience

There are many options for working in a lab or in the field, such as CST's Science Scholars, which gives qualifying incoming students and sophomores the opportunity to participate in paid summer research and professional development experiences. There is also the college's Research Scholars Program and research opportunities available through CST's six academic departments, international research and Temple's Diamond Research Scholars.

Get the skills to launch your career

Professional development staff help you build skills—like interviewing and resume writing—needed to reach career goals. Students connect to internships and full-time employment at fall and spring job fairs, focused exclusively on science and tech opportunities.

discovery

Dive into the CST experience

The college connects you to the people and experiences that will make your first year at Temple extraordinary. Our Connections Seminars bring together faculty and students to explore emerging areas of science, like the impact of climate change, advances in materials science and exploring the human genome.

Build a strong academic foundation

CST's First-Year Seminar, taught by specially trained advisors and faculty includes interactive workshops to develop skills you need to succeed at Temple, from test-taking strategies to setting goals. Our data science course builds those strong analytical skills necessary for graduate school and tomorrow's careers.

Learn about research at the start

Beginning in the first year, you will explore research options through events and faculty talks. That gets you ready for CST's research experiences where upper-level students work with international scientific leaders on advanced research, from exploring the impact of dysfunctional mitochondria on Parkinson's to studying the environmental impact of invasive species.

Undergraduate Majors and Programs

APPLIED MATHEMATICS

Develop the mathematical and computational methods needed to solve complex problems across the sciences, engineering, healthcare and business.

BIOCHEMISTRY

Explore the chemical processes that occur in living matter, which are the basis for research in physiology, nutrition, the environment and human health.

BIOLOGY

The study of the principles governing living organisms, from the molecule to the human body to the biome.

BIOPHYSICS

An interdisciplinary program that equips students with the knowledge and skills needed to solve biological problems, from the molecular level to complex ecosystems.

CHEMISTRY

Understand the basic properties of matter to predict and explain how they change and react to form new substances.

COMPUTER SCIENCE

From software, networks and operating systems to algorithms, data structures and artificial intelligence, become a creator technology, not just consumers of it.

COMPUTER SCIENCE & PHYSICS

Master the fundamentals of computer science and physics. Build a solid foundation in data structures, algorithms, and programming and systems design as well as classical, modern, and mathematical physics, and quantum mechanics.

DATA SCIENCE

Delve into data, spot trends and uncover truths hidden in its complexity using principles of database systems, cloud computing, machine learning and more.

ECOLOGY, EVOLUTION & BIODIVERSITY

From habitat loss to climate change, understand how to solve society's most pressing challenges.



ENVIRONMENTAL SCIENCE

Gain a fundamental understanding of the natural processes forming the earth system and how societal demands alter them. Investigate in the field, lab or through simulations to develop solutions to sustain society.

GENOMIC MEDICINE

Develop a deep understanding of DNA and its role in the development, prevention and treatment of disease.

GEOLOGY

Understand the physical, chemical, and biological processes that shape the earth today and throughout its history using field, lab and computation research.

INFORMATION SCIENCE & TECHNOLOGY

The design, development, testing and documentation of information systems, using the study of networks, programming, software systems analysis and more.

MATERIALS SCIENCE

Understand the far-reaching capabilities of material science at the interface of applied mathematics, chemistry, computation, information science and physics.

MATHEMATICAL ECONOMICS

Learn how mathematical principles and economic data are used to solve complex challenges in business.

MATHEMATICS

Attain lucrative algebraic, analytic and numerical skills. Graduates of this degree program can serve in a number of professional roles, including actuary, business analyst, database administrator, researcher and statistician.

MATHEMATICS & COMPUTER SCIENCE

Study the connections between mathematics and computer science that give rise to innovations in artificial intelligence, machine learning and computer software and hardware.

MATHEMATICS & PHYSICS

An interdisciplinary program combining problem solving and trained observational skills with a strong theoretical background for careers in advanced research and the tech industry.

NEUROSCIENCE: CELLULAR AND MOLECULAR

Explore the nervous system from genes to cells to the organism through hands-on research.

NATURAL SCIENCES

Study the sciences through a program that combines foundations in biology, chemistry, computer science, geology, mathematics and more.

PHYSICS

Study the natural world—from the subatomic to the galactic—at its most fundamental level, and learn how physics applies to communications, scientific and medical research and many other fields.

PHARMACEUTICAL SCIENCE

As a pathway to pharmacy school, students can combine courses from different disciplines to satisfy the requirements for specific pharmacy programs, while using Temple's tools and regional connections to gain pre-professional experience.

TUTEACH

Be a STEM leader. "With teaching" majors combine a science, mathematics or technology major with hands-on teaching experience. Enter the teaching field with invaluable experience or go into medicine, law, business and many other areas.

KEY

■ Available as a minor

▲ Available as a certificate

● Available as a Tuteach major

Turn the page to find out about

STELLAR



STELLAR

At the College of Science and Technology, we are all in on STELLAR.

STELLAR is how we engage with students and support them on their academic journey. It's how we see you. And how you'll feel about yourself as a science and tech student. It's how future employers will look at your knowledge and experience. You are STELLAR.

STELLAR is a variety of programs, initiatives and opportunities that support students in the classroom and beyond. It's about giving you opportunities to succeed and to lead. It's staying ahead of the latest tech roll out. It's research experience that leads to success at Temple and beyond. It's student clubs, health and wellness and building a learning community that soars.

SCIENCE

It's the pursuit—systematic and evidence-based—of knowledge. It's discovery and innovation. And then it's using what you learn to solve tomorrow's toughest challenges. With more than 30 majors, you can choose how you want to explore. Experiment. Investigate. In the lab and in the field. Then take what you learn at Temple University and change the world.

TECHNOLOGY

It's more than a phone. It's the application of scientific knowledge for practical purposes. It's hardware and software combined, and the mathematics that underpins it all. It's dynamic. Changing. CST's research centers and renowned faculty give you an edge in the fast-paced world of tech. Here, you'll never be left behind in your field. You'll be out front, leading the way.

SEE A LIST OF STELLAR RESOURCES AT
cst.temple.edu/stellar

ENGAGEMENT

It's more than making connections on LinkedIn, it's digging in to find your passion and the partners who can help you reach your goals. Volunteer at a summer science camp, help organize a STEM event for high schoolers in Philadelphia. Start your own campus club or form a study group with your peers in the First-Year Seminar. It's being a part of the CST community, one that will support you every step of the way.

LIFE

You're a student, but also so much more. That's why Temple and CST offer so many opportunities to build new skills, explore new interests and grow as person. Join a learning community or build new skills to enhance your career or life. Stay healthy, physically, mentally and emotionally. Then take your new superpowers to the next level.

LEADERSHIP

It's about taking chances. Learning from your missteps. And always, always moving forward. From STEM Leadership Fellows, Peer Leaders and Peer Advisors to being a mentor, classroom assistant and STEM volunteers, at CST you'll find so many opportunities to lead, set an example and inspire others.

ACHIEVEMENT

You want to succeed, but you don't have to do it alone. CST offers so many resources that help you reach your potential, like the Math Consulting Center, the Student Success Center and the CHEMZone. Meet with our professional development staff and plan your future in industry or in professional or graduate school. It's your dream, but we'll be there for you every day.

RESEARCH

At CST, we know that meaningful research experiences engage students and help them achieve in the classroom and out. It's working with others and working with data. It's 'lab hands' and digging in the earth. In your first year, you'll learn the basics of the research process. Then you'll have opportunities to join a research team through the CST-Research Scholars Program or through an academic course in your department, summer and international research opportunities or through university programs and outside fellowships.

CONTACT US

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