TRUMAN
STATE UNIVERSITY

QUICK FACTS

COMPUTER SCIENCE

DON'T FOLLOW. *Pursue.*

TRUMAN
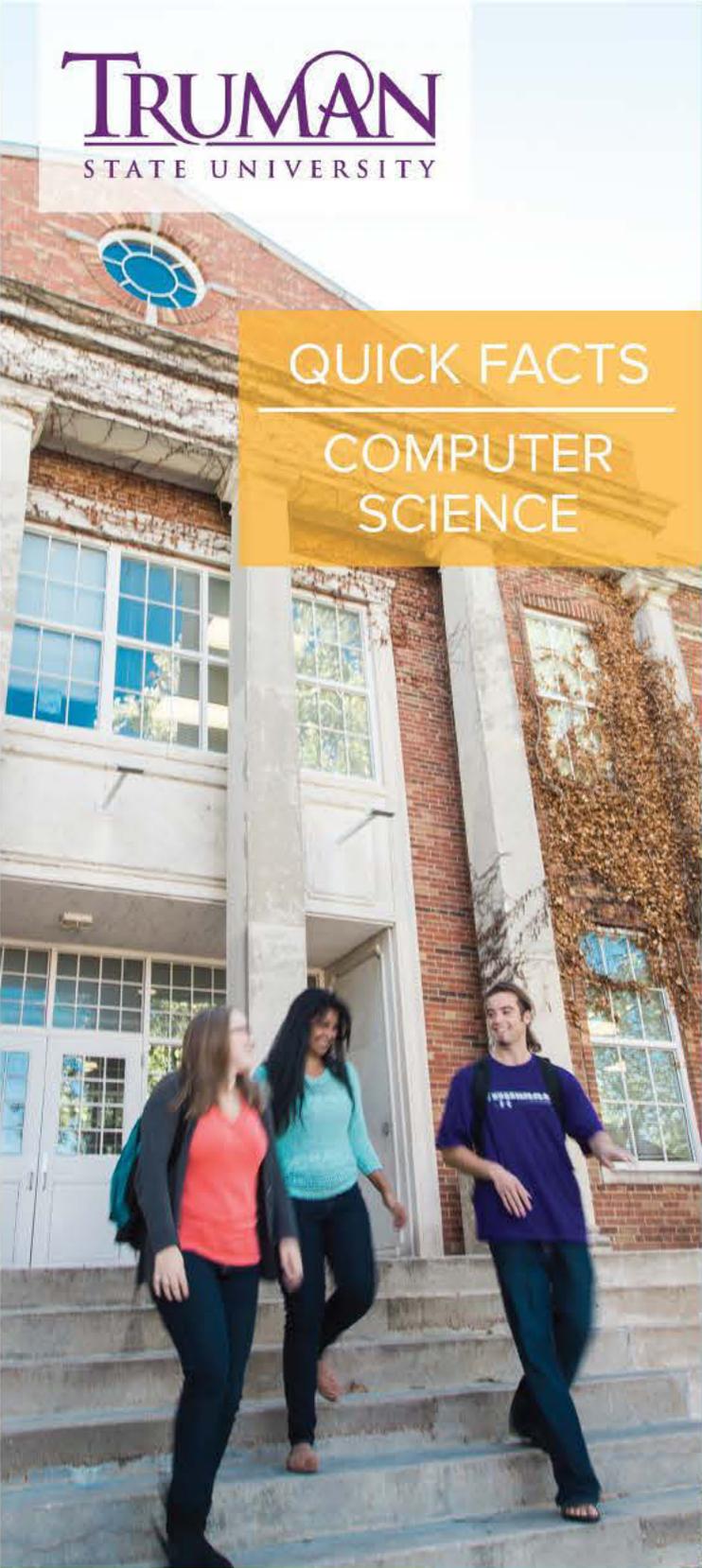## STATE UNIVERSITY

TRUMAN STATE UNIVERSITY

SCHOOL OF SCIENCE & MATHEMATICS

Engage in a lively community of friends, mentors, teachers, and fellow learners. Work collaboratively with professors and other curious students. Make connections across a wide range of endeavors.

Pursue the questions that intrigue you.

scienceandmath.truman.edu

DEPARTMENT OF
COMPUTER SCIENCE

"At Truman I am surrounded by independent thinkers who are motivated for their future."

Callie Federer, Class of 2015
Pursued at Truman: Computer Science, DJ for KTRM (Truman Media Network's radio station), Tsunami (ultimate frisbee team)
Internships: Express Scripts, The Genome Institute at Washington University in St. Louis (2014)
Study abroad: Auckland, New Zealand (2014)
Research: Wrote a research tool for the cancer analysis research team at The Genome Institute
Currently pursuing: Ph.D. at University of Colorado-Denver in Computational BioScience
Hometown: St. Louis, Missouri

Level Up for the 21st Century

Receive a broad intellectual base; well-developed interpersonal, analytical and problem-solving skills; and a basic mastery of the discipline of computer science, the theory of computation, and the design of computational systems.

Obtain the foundation you need in the competitive, fast-growing field of software development. Study the latest theories of computation and design from within the practical problem-solving framework of programming applications. Whether you're interested in gaming, database management, business systems or the booming field of mobile apps, there's a place for you here.

Not majoring in computer science but still want training in computer-related skills and concepts? Choose from four minors that are a good complement to any major.

Acquire an understanding of computing. Prepare for a life that matters.

CS.TRUMAN.EDU

PURSUING COMPUTER SCIENCE

BS DEGREE OFFERED

MAJOR OFFERED
Computer Science

MINORS OFFERED
Computer Science,
Cognitive Science,
Information Systems,
Mathematical Biology

190 approximate number of students pursuing this major

5 full-time faculty members | **50%** of majors do an internship

100% of faculty members have a terminal degree in the field

DEPARTMENTAL STUDENT ORGANIZATIONS
Association for Computing Machinery (ACM), Computer Gaming Association (CGA), Tru Women in Computer Science (TWiCS)

Minors

- **Computer Science**: No matter your major, you can get secondary training in basic foundations of computer science by declaring a computer science minor. It's a great way to introduce yourself to programming, too, which is a useful skill across a variety of professional fields.
- **Cognitive Science**: Study the processes underlying the acquisition and use of knowledge. Learn how the human mind works by combining classes from Psychology, Philosophy, Linguistics, Computer Science and several other disciplines. Classes in Artificial Intelligence, and Automata and Formal Languages also round out this interdisciplinary minor.
- **Information Systems**: Learn how information technology affects organizations, including systems analysis, databases, and internet programming.
- **Mathematical Biology**: Prepare to work at the intersection of the life and mathematical sciences through a combination of courses in Mathematics, Computer Science, and Biology. Participate in research on open-ended problems in the biological sciences. Begin by building your own personalized learning plan!

Student Organizations

- **Association for Computing Machinery (ACM)**: Join the First Society in Computing. Founded in 1947, ACM is the oldest and largest professional organization for computer scientists. ACM at Truman features guest speakers, capstone presentations, scholarship opportunities, tutoring for computer science students, service projects, and lots of fun. If you're a computer science major or minor, ACM is for you.
- **Computer Gaming Association (CGA)**: Enrich the gaming community at Truman. CGA administers a gaming league and various gaming ladders every semester, and hosts at least one LAN Gaming Convention event a year. Want hands-on experience? Help provide servers for popular multiplayer computer games on the Truman LAN.
- **Tru Women in Computer Science (TWiCS)**: Are you aspiring to be a woman professional in computer science? You don't need to be a CS major or minor to participate; you just need to be enthusiastic about computing. Sponsored by the both the Mathematics and Computer Science Departments and partially supported by a grant from the Boeing Company, the focus of the organization is for members to support each other and to have fun through hands-on activities, discussions, outside speakers, tutoring sessions, field trips, and social events.

Internships

- Join the 50% of Computer Science students that find a well-paid internship position. The majority of interns in our program receive job offers during their internship experience!

Capstone: The Culminating Experience

- Choose what type of transformative opportunity meets your interests and needs for your final semesters on campus.
- In order of frequency, Computer Science students pursue the following options for their Capstone:
  - Paid corporate internships
  - Individual software development projects
  - Organized research experiences through on-campus programs like Mathematical Biology or through nation-wide programs like Research Experiences for Undergraduates (REUs), and beyond!
  - Personalized research experiences with one-on-one faculty mentorship

Study Abroad

- Truman grants you access to over 500 study abroad opportunities in more than 60 countries.
- Participate in a faculty-led study abroad program to gain cultural understanding while completing Truman courses!
- Monetary assistance is available, including Truman State University Foundation Scholarships.
- Cultural loans are also available for all programs.

After the Degree

- Computer Science students are among the most sought-after graduates in the global workforce today. After graduation, you'll be well-qualified to begin a career in industry or pursue advanced study in competitive graduate programs.
- Recent students have pursued graduate degrees at the following schools: Washington University, Iowa State University, University of Missouri-Columbia, Purdue and Carnegie Mellon.
- Follow Computer Science alumni into positions at: Cerner Corporation, Boeing, Monsanto, AT&T, IBM, Garmin and CarFax.

"Truman offers you a challenging experience with a clear path to a successful career."

Jon Beck
Professor of Computer Science