# Computer Science

## Degree Program
Bachelor of Science in Computer Science

## Minors
Computer Science
Information Systems
Cognitive Science
Mathematical Biology

## Students
150 Computer Science Majors
   125 Male, 25 Female
    62 Freshmen and Sophomores
    88 Juniors and Seniors

## Student Organizations
❖ Association for Computing Machinery
❖ Free Software Club of Kirksville
❖ Tru Women in Computer Science
❖ Computer Gaming Association

## Research Opportunities
❖ Senior Capstone Experience
❖ Science, Technology, Engineering & Mathematics
  Talent Expansion Program (STEP)
❖ Mathematical Biology Program
❖ Research Experiences for Undergraduates (REUs)
❖ Internships

## Capstone Projects
❖ Extended Logo Programming Language
❖ Functional Annotation of Maize Genes
❖ Shape Shift Java Game
❖ Caching Using Spatial Locality of Reference
❖ Fair Mutual Exclusion in Concurrent Programming
❖ Development and Collaboration on the Drupal CMS
❖ Linear Sorting Algorithms
❖ Graphical Projections of Odd-Dimension Hypercubes
  onto a Plane
❖ Modeling a College Football Season
❖ Image Analysis for the Evaluation of Manipulative
  Treatment Techniques

## Internship Placement
❖ Boeing
❖ Cerner
❖ Enterspy
❖ IBM
❖ Monsanto
❖ National Information Solutions Cooperative
❖ Stiefel Nicolaus
❖ Union Pacific

## Graduate School Placement
❖ Baylor University
❖ Carnegie Mellon University
❖ Iowa State University
❖ Massachusetts Institute of Technology
❖ Missouri University of Science and Technology
❖ Northwestern University
❖ Oxford University
❖ Purdue University
❖ Rochester Institute of Technology
❖ Royal Swedish Institute of Technology
❖ University of Missouri
❖ Washington University of St. Louis

## Job Placement
❖ AT&T
❖ Boeing
❖ Caterpillar
❖ Cerner
❖ Dish Network
❖ Las Vegas New Horizons
❖ Lockheed Martin
❖ Monsanto
❖ Moore Fans
❖ Motorola
❖ National Information Solutions Cooperative
❖ Peace Corps
❖ Sogeti
❖ Shelter Insurance
❖ State Farm Insurance

## Faculty
*Professors*

### Wayne P. Bailey
*Ph.D. University of Missouri-Rolla*
  **computer architecture**
  **computer networks**

### Jon Beck
*Recipient of the Educator of the Year Award*
*Ph.D. West Virginia University*
  **bioinformatics**
  **software engineering**

### Alan Garvey
*Ph.D. University of Massachusetts-Amherst*
  **artificial intelligence**
  **cognitive science**
  **web programming**

### Ruthie Dare-Halma
*Ph.D. University of Missouri-Rolla*
  **artificial intelligence**
  **cyberethics**

### John J. Neitzke
*Ph.D. Michigan State University*
  **automata theory**
  **computer graphics**

*Associate Professor*

### Robert Matthews
*Ph.D. The College of William and Mary*
  **distributed systems**
  **operating systems**



## Visit Truman
The best way to get to know us is to see us for yourself. We invite you to tour the campus, attend a class, and visit with the people of the Truman community. We encourage you to contact the Office of Admissions if you have any questions.
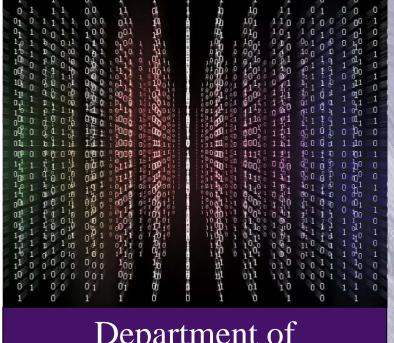


**COMPUTER SCIENCE AT TRUMAN**
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(660) 785-4547
computerscience@truman.edu

**GENERAL INFORMATION**
Office of Admission
Ruth W. Towne Museum & Visitors Center
1-800-892-7792
(660) 785-4114
admissions@truman.edu

## Thriving Minds at Truman

At Truman State University, you will have an honors college experience in every classroom. You will enjoy smaller classes taught by professors instead of graduate students. You will participate in class discussion, work on group projects, and talk with professors after class. You will learn from the people who sit next to you in class and the people who live down the hall.

With a 16:1 student-faculty ratio, you will get the personal attention you need from a world-class faculty. All of our professors have an open-door policy, meaning you can stop by their office during their office hours to discuss class, get extra help on an assignment, or just chat about the day's events. Many professors will even provide their home phone numbers in case you need unexpected help with an assignment. In an age when most colleges put a premium on faculty research, at Truman, your success is our top priority.

As an undergraduate student, you will gain the hands-on experience that will prepare you for graduate school or for any leading company. Truman students have had exciting internships as early as their freshman year working with government leaders, business executives, broadcast and print media professionals, accountants, archeologists, marine biologists, advertising agents, doctors, musicians and artists. Truman also participates in the Truman in Washington Program and sponsors the Missouri Government Internship Program.

Along with internships, you will discover real opportunities for research. Research at Truman spans all disciplines, and each year Truman awards approximately 40 institutional grants to undergraduates pursuing research projects. Last year, more than 1,200 students participated in undergraduate research. These types of real life experiences can open windows of opportunity and provide a link between the classroom and the world beyond campus.

## Liberal Studies Program

Truman's Liberal Studies Program (LSP) offers a strong liberal arts education that provides the foundation for all academic majors. Breadth of knowledge with an emphasis on interdisciplinary connections and experiences enhances majors and provides skills essential for lifelong learning. Whether you are a student firmly settled on a major or seeking to find your way, Truman's LSP offers the broad background and preparation to master a discipline and be nationally competitive in the field, ready to enter the best graduate and professional schools or to pursue a challenging career immediately after graduation.

Come and define what your Truman experience will be!

## Department of

# Mathematics & Computer Science

## Truman State University

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