MATH, COMPUTER SCIENCE, & INFORMATION SYSTEMS

Bachelor of Arts or Bachelor of Science in Math | Bachelor of Arts or Bachelor of Science in Computer Science | Bachelor of Science in Information Systems
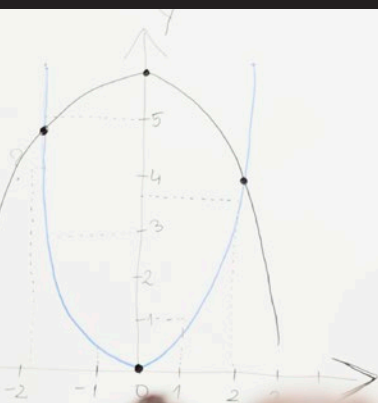
# Math & CS/IS Majors are in Demand

Math & CS/IS Degree Programs:
- B.A. or B.S. in Math
- B.A. or B.S. in Computer Science (CS)
- B.S. Information Systems (IS)

Many modern challenges are solved by math, computer science, and information systems majors. The programs at TLU offer an innovative approach to these highly technical fields.

Combining technical disciplines that promote critical thinking and analytical problem-solving skills with a liberal arts and sciences foundation ensures students graduate with the communication, leadership, and innovation skills that technology companies are looking for in future employees.

A liberal arts and sciences education provides the broad yet deep experience that math, computer science, and information systems graduates need to excel within an organization.
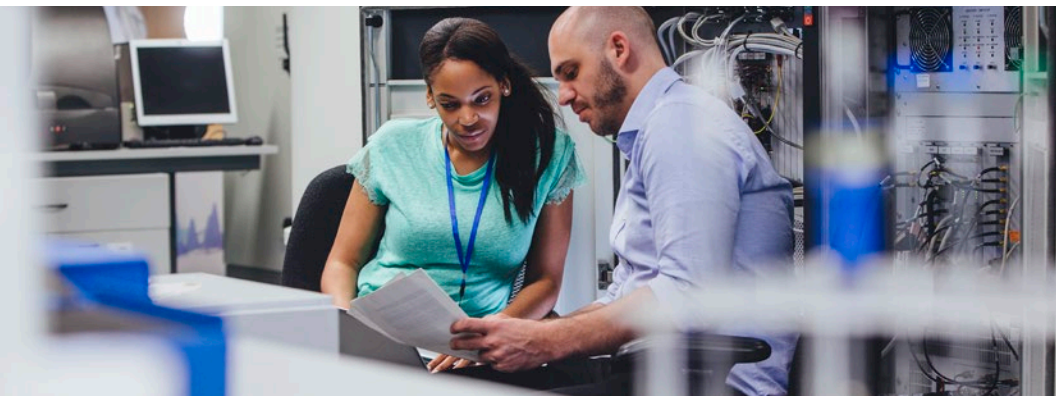
What is Computer Science (CS)?

CS covers a variety of topics like designing and building software, developing effective solutions to computing problems, user interface design, mobile applications, and network security issues.

What is Information Systems (IS)?

The field of IS uses computer systems to manage information used by companies or organizations to define and achieve goals. IS professionals analyze, manage, design, implement, and manage technology-based solutions to improve business processes.

What Will I Learn?

Python, Java, C-programming, creative thinking, calculus, computer networks, critical thinking, logical analysis, databases, statistics, numerical methods, advanced problem-solving skills, network security, operating systems, e-commerce, and much more. Math programs are becoming increasingly reliant on digital technology and are directly linked to computer science through areas like automated theorem proving, symbolic computations, and optimization techniques.

The Numbers Say It All

Senior presentations and research allow students to **explore specialized areas** like artificial intelligence, Android applications, computational mathematics, advanced data analysis, and modeling of physical systems.

more than **90%** of Math & CS/IS majors are **employed or accepted** to graduate school immediately after graduation.

Of the **6** industries **expected to grow the most by 2020,** the tech industry currently **PAYS THE HIGHEST**.

Within the **next 10 years**, there will be **1 million more computing jobs THAN EMPLOYEES TO FILL THEM**.

TLU's Master of Science in Data Analytics

Math, CS, and IS provides two of the three **main skills** for this program where students can earn a master's degree **IN JUST FIVE YEARS**.

San Antonio, located just **30** miles **from TLU**, is a national hub for the **fast-growing cybersecurity industry**.

Sources: Pew Research Center (pewresearch.org) January 2018, Computer Science Zone (computersciencezone.org) February 2017

What Can I Do With A Degree in Math, Computer Science, or Information Systems?

- Actuarial Science
- Computer and Information Research Science
- Data Analyst
- Data Scientist
- Statistician
- Computational Research Analyst
- Information Technology (IT)
- Software Development
- Computer Network Architecture
- Operations Research
- Biomathematics
- Software Engineering
- Information Security Analyst
- Computer Systems Analyst
- High school and university teaching
- Finance
- Cryptography

"Not a lot of people know this, but economics requires quite a bit of math. The department prepared me very well to continue my education, and the professors teach with so much enthusiasm and depth. I feel so ready to take on this next challenge. I would not be where I am today without them and I'm grateful for that."

Jillian Chase '18
Math and Education (7-12 Mathematics) Double Major
Master's Program in Economics *University of Texas at Austin*

Who's Hiring Math & CS/IS Graduates?

Microsoft
AT&T
APEX CAPITAL
GENERAL
MOTORS
HEB
PwC
U.S. DEPARTMENT OF ENERGY
BOEING
GOOGLE
SOUTHWEST RESEARCH INSTITUTE

For more information, contact Department Chair, Dr. Reza Abbasian, at **rabbasian@tlu.edu** or schedule a personalized campus tour at **tlu.edu/visit** and visit a class, talk to current students, and meet with your admissions representative and financial aid counselor.

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