



COMPUTER SCIENCE (CS)

BACHELOR OF SCIENCE (B.S.)

Just about every facet of your day has been influenced by computer systems, from your phone, smartwatch, car, and the devices and technology you use.

Computer science is the study of computer systems and their rapidly expanding role in households, businesses, and government agencies around the world. As computers have expanded into all aspects of daily life, computer scientists are needed to improve user interfaces, digital networks, data storage, cybersecurity, and web design.

OPPORTUNITIES AT KING'S COLLEGE

Our program is designed to help you develop the analytical skills and computer expertise vital to both private and public employers. Our curriculum teaches you to understand computing as an intellectual discipline and how to use your knowledge to solve technical problems and drive innovation in a variety of fields.

We focus on understanding the diverse properties of computer systems used in medical diagnosis, scientific visualization, biological simulation, artificial intelligence, and engineering design. Here is what else makes our program different:

CORE Curriculum: students will enhance their technical skills by learning important professional skills, such as written and oral communication, moral reasoning, and critical thinking.

Small class sizes: our small classes offer the opportunity for students to get one-on-one feedback and guidance from professors.

Valuable real-world experience and job readiness: through our strong network of corporate connections, whether it's through an internship or working for King's IITS department, you'll get the chance to apply classroom knowledge in real technology settings.



**KING'S
COLLEGE**
TRANSFORMATION. COMMUNITY. HOLY CROSS.

CAREER OPPORTUNITIES

Earning a B.S. in Computer Science is a worthwhile investment for professional growth and future employment with faster than average anticipated job growth and generous starting salaries. Many students with a computer science degree go on to attend graduate school part time with the support of their employers.

Some of the companies that employ King's graduates include Prudential Asset Management, Keane Inc., EDS, Sanchez Computer Associates, Phillip Morris, and Hughes Defense Industries. Possible careers include:

- data scientist
- cybersecurity analyst
- software developer
- UX designer
- network administrator

DEGREE REQUIREMENTS

Below is a sample of courses offered in this program. For a complete list of programs and courses, see our Degree Requirements online.

CS 112	Introduction to Computer Programming
CS 120	Object Oriented Software Development (Lab)
CS 232	Data Structures (Lab)
CS 233	Advanced Data Structures (Lab)
CS 256	Database Management (Lab)
CS 270	Computer Organization (Lab)
MATH 127	Logic & Axiomatics
MATH 129	Analytical Geometry and Calculus I
MATH 235	Discrete Mathematics
CS 480	Software Engineering
CS 481	Applied Software Engineering
CS 499	CS Internship
CIS 385	Data Communications I
CIS 487	Network Security
CS 305	Compiler Design
CS 315	Programming Paradigms
CS 328	Theory of Algorithms
CS 336	Theory of Computation
CS 364	Operating Systems
CS 375	Computer Graphics
CS 420	Advanced Programming
CS 448	Artificial Intelligence

WHAT'S THE DIFFERENCE BETWEEN CS AND CIS?

A CIS major typically focuses on the **application of technology in business settings**, with an emphasis on how to effectively manage information systems to support organizational goals.

On the other hand, a CS major focuses more on the **theoretical and technical aspects of computing**, including algorithms, data structures, software engineering, and programming languages.



\$112,590

MEDIAN ANNUAL SALARY FOR
DATA SCIENTISTS

36%

OVERALL EMPLOYMENT GROWTH
FROM 2023-33

*Statistics provided by U.S. Bureau of
Labor Statistics*

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