



Computer Science

Computer Science is the study of how to use computers to solve problems, not only through the use of software, but also through the development of answers to the theoretical fundamental scientific questions about the nature of computation. The long-standing, core areas of computer science are, and have historically been, software engineering, graphics, networks, databases, multimedia, and artificial intelligence. However, as it is an ever-growing and ever-changing field, recent research has been focused on the overlap of computer science within other scientific fields.

Possible Immediate Job Titles with a Bachelor's Degree

[Software Developer](#)

Software developers are the creators of computer programs and applications that allow people to perform specific functions on a computer or other device. To become a software developer, one must take extensive coursework in computer science, as well as have a strong background in computer programming. If choosing to pursue a computing career related to a specific industry, one must be familiar with that industry.

[Computer Systems Analyst](#)

Computer systems analysts combine the areas of computer science and business to develop computer programs that allow a business to run more efficiently. To become a computer systems analyst, one must take extensive coursework in computer science, as well as being familiar with business or management information systems, as they generally work alongside the “business” side of their respective company.

Possible Job Titles with an Advanced Degree

[Systems Integration Engineer](#) – **Master's Degree Required**

Systems Integration Engineers design custom computer programs through the combination of multiple hardware and software systems that help clients to run their respective businesses more efficiently. To become a systems integration engineer, one must take extensive coursework in computer science, as well as have knowledge of several different hardware and software systems.

[Animation Programmer](#) – **Master's Degree Required**

Animation programmers are responsible for the creation of applications that allow animators to design their graphics and illustrations, generally regarding the creation of animated movies or game development. To become an animation programmer, one must take extensive coursework in computer science, as well as have a thorough background of computer graphics.

This is not an exhaustive list of occupations and it is highly recommended you conduct informational interviews and engage in experiential learning activities to help you broaden your interest areas within your major. Please contact the Career Design Center and speak to a Career Coach for further discussion; 512-471-6700 Painter Hall (PAI) 5.03.



Online Resources

[What can I do with this major?](#)

[What can you do with a computer science major?](#)

[What can you do with a Master's degree in computer science?](#)

[Is a profession in computer science right for you? Explore Focus2.](#)

Job Posting Websites

[Handshake](#)

Handshake is Career Services' primary job posting site, and all students should have an account to not only apply for jobs and internships, but also to stay current on upcoming events, employer information sessions and other opportunities. Create an account!

[Vault](#)

[Tech Web](#)

[Game Development Jobs](#)

[Going Global](#)

[Just Tech Jobs](#)

[Computing Research Association](#)

[Dice](#)

[Tech Engine](#)

[Indeed](#)

[Geek Austin](#)

Professional Associations

[Association for Computer Machinery*](#)

[IEEE Computer Society*](#)

[Association of Information Technology Professionals*](#)

[Association for Women in Computing](#)

Additional Resources

[Computer World](#)

[National Academy of Sciences](#)