High school computer science classes are the gateway to studying any of the college computing majors outlined in this brochure. For more detailed descriptions of options in computing, please talk with your guidance counselor and your school’s computing teachers to learn more about the opportunities available to you now and in the future, or visit our website.

Computing Degrees & Careers

INFORMATION TECHNOLOGY (IT) professionals engage in creating, installing, supporting, troubleshooting, and designing elements of the IT system that form the basis of a wide array of contexts, from websites to databases and networks. IT professionals are in organizations ranging from business and government to schools, health care, and more. IT specialists process the ideal combination of knowledge and practical, hands-on experience to become experts in organizations’ technology infrastructure and the people who use it. They’re responsible for selecting and implementing the best software and hardware products appropriate for an organization. This means that IT professionals need to manage resources and requirements to provide a secure, efficient, and productive workplace for everyone.

Directors, composers, and architects all see the big picture. Do you? Creating software involves a lot more than just writing code. Software engineers combine experience in computer science, engineering, and many other aspects of a complex software product. Software engineering courses are offered both online and on campus. These courses study and design, develop, and organize many aspects of a complex software product. Software engineering courses are taught by faculty with expertise in managing software projects. These courses are divided into many small building blocks. Software engineers need to complete these courses in order to manage software projects. This means that software engineers need to manage resources and requirements to provide a secure, efficient, and productive workplace for everyone.

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Mobile Devices/Social Media

With more than seven billion subscriptions worldwide – covering more than 95% of the world’s population – mobile technology is still growing. You probably spend more time looking at Facebook, recording videos, and Instagramming photos than dialing friends. Today’s smartphone apps can turn any person into an instant news source you can never remember, play graphics games, and locate friends’ addresses. Mobile technology is now scratching the surface of wearable computing’s potential. And with the “Internet of Things” and “big data” revolution, your body’s every movement can now be tracked and reported. Devices like Fuelband and FitBit track how far you run, how many calories you burn, and your overall health. Of course, adults not only play today’s video games, they create them, too – as 3D modelers, animators,Effects artists, graphics programmers, level designers, and more. At the heart of these virtual reality platforms are gaming designers, and that mobile networks are secure.

Information systems specialists design the logic that keeps track of customer interests and provides recommendations. Computer engineers design and build the mobile devices on which we download and stream media. Computer scientists build the huge databases that store music, TV shows, and movies. How many computing professionals does the technology need to be able to cope with immense quantities of data.

Medical Imaging

Doctors today can clear the arteries of a patient’s heart, perform a brain scan, or operate on patients half a world away using remote cameras and robotic arms. Modern medical imaging can reveal a detailed view ofTo cope with immense quantities of data.

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