Career Path

<http://www.boeing.com/careers/collegecareers/ITCFP.html>

Students in information technology learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and two-year college programs to four-year college and graduate programs.

CTE classes in this cluster will introduce you to a variety of interesting careers including:

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| --- | --- |
| * Web designer or webmaster * Network administrator or technician * Telecommunications technician * Data communications analyst * Security or database administrator * Application integrator | * Computer or game programmer * Software applications architect * 3D animator * Virtual reality specialist * Graphic artist * Help desk specialist * Technical writer |

**Skills You’ll Learn if You Study Computing**

You will learn two types of skills:

1. Technical computing skills  
2. General professional skills

In addition, depending on your interests you will acquire specialized domain knowledge such as business, medicine, or biology.

 1. Technical computing skills

* Problem-solving ability, recognizing levels of abstraction in software, hardware systems, and multimedia
* Practical skills such as building and using database management systems and other sophisticated software tools
* Programming
* Using existing software libraries to carry out a variety of computing tasks, such as creating a user interface
* Being aware of the uses to which computers are put, recognizing issues to do with security, safety, etc.
* Looking at innovative ways of using computers, creating tools, providing tools support, etc.

 2. General professional skills

* Communicating in writing, giving effective presentations and product demonstrations, and being a good negotiator (both in traditional environments and electronically)
* Preparing for a job search; this involves building an impressive curriculum vitae and basing this confidently on technical and other skills
* Being an effective team member
* Understanding the special requirements of a globally distributed project with participants from multiple cultures
* Recognizing the challenges and opportunities of keeping skills up-to-date and understand how to do so
* Literacy/fluency in computing; organizing all your professional information effectively