

# Information Technology

*Learn how to map your career and find path to success!*

## Building a smart career in Information Technology....



Network administrators, software engineers, programmers and database developers are essential to many businesses — and these jobs are expected to grow in the future. These are also high wage jobs, starting at \$16 an hour and ranging all the way up to six figures a year.

### Video Gaming and Cyber Security:

Exciting occupations in the IT profession that have been growing steadily are games development, digital media and cyber security.

Because of the gaming industry, Nevada has a natural predisposition to develop a talented and skilled workforce on the video-gaming scene. Artists, animators, and game developers are occupations in demand, and companies will compete for the top talent in the future.

Following the recent news about cyber activities, and hacking into most secured systems, cyber security and jobs associated with it are becoming increasingly important for Nevada's companies as well as those globally.

Everyone knows about Microsoft, Intuit, Take - Two Interactive, Petroglyph, IGT, Switch, Amazon and Zappos, etc., big names both locally and worldwide in IT Industry.

Jobs in computers reach into every industry. The more complex the business, the more staff it needs to keep servers, databases, accounting systems, websites and more running smoothly.

**How to learn more:**

- Explore this and other industries at [www.nvcis.intocareer.org](http://www.nvcis.intocareer.org)
- Find out if a job will pay your bills using the Reality Check at [www.nvcis.intocareers.org](http://www.nvcis.intocareers.org)
- Search for all the training programs in Nevada, schools and other information regarding career or education options in Nevada by exploring <http://www.nevadayouth.org/>

### How do I get started in IT?

- » IT jobs typically require a combination of training and on-the-job experience.
- » Keep your grades up in high school. Take math, computer and English classes.
- » Learn all the software programs you can. If you are interested in interactive media, focus on programs used by graphic designers and web developers.
- » Explore careers you might be interested in at [www.nvcis.intocareers.org](http://www.nvcis.intocareers.org)
- » Explore careers and employment possibilities at [www.NevadaYouth.org](http://www.NevadaYouth.org). If you know someone in IT, interview him/her and ask if you can visit his/her workplace.
- » Make a plan based on your interests. How much training do different jobs require? Where can you find the training you need? How will you pay for it? What steps can you take to get you closer to your goal?

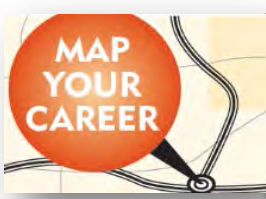
## Career Paths in Information Technology

Education Level	Hourly Wage Ranges* (25 <sup>th</sup> – 75 <sup>th</sup> percentile)	Database Design & Development	Software Development	Networking & Technical Support	Video Games, Internet, Digital Media
HIGH LEVEL	Computer Engineer, System Software \$36.55 - \$56.43	Database Developer, Database Administrator, Project Manager, Data Architect	Information System Manager, System Software Engineer	Computer Hardware Engineer, Network Infrastructure Engineer, Network System Analyst	Studio Head, Executive Producer, Web Developer, Virtualization Engineer
MID LEVEL	Computer Programmer \$28.66 – \$42.65	System Analyst, Data Analyst, Compliance Analyst	Software Applications Developer, Programmer, Programmer Analyst	Network Server Administrator, Security Specialist, Network Support	Multi-media Artist, Audio/Video Designer, Web Designer, Game Designer
ENTRY LEVEL	Comp. Support Specialist \$16.26 – \$25.93	Database Technician, Business Database Specialist	Business Software Specialist, Software QA and Tester	Computer Support Technician, Help Desk Technician	Desktop Publisher, QA Tester, Business Publication Specialist

\*For info on wage ranges visit – Nevada Workforce Informer at <http://www.nevadaworkforce.com/>

**Note:** the colors for career path aligns with the CTE classes available in the school.

*Our mission is to provide Nevada's businesses with access to a qualified workforce and encourage equal employment opportunities.*



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## Classes to take for different Programs of Study in Information Technology:

High School	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade	Post Secondary
» Base course schedule that students will take in high school:	English I	English II	English III	English IV	College of Southern Nevada Great Basin College Nevada State College Truckee Meadows Community College University of Nevada, Las Vegas University of Nevada, Reno Western Nevada College
	Algebra I	Geometry	Algebra II	Senior Level Math Course	
	Biology	Chemistry or Geoscience	Junior Level Science Course	Elective	
	Health / Computer Literacy	World History	US History	US Government	
	Physical Education	Physical Education	Foreign Language or Elective	Foreign Language or Elective	

### » Recommended classes for selected career paths in IT :

Industry Recognized Certifications:

<b>Computer Science:</b>	Computer Science I	Computer Science II	Computer Science III or AP Computer Science A	Computer Science Advance Study	
<b>Digital Game Development:</b>	Digital Game Development I	Digital Game Develop. II	Digital Game Develop. III	Digital Game Adv. Study	<b>Adobe Certifications</b>
<b>Information Technology Networking:</b>	IT Networking I	IT Networking II	IT Networking III	IT Networking Advance Study	<b>Network + (CompTIA), CISCO Certification Microsoft Certification</b>
<b>Information Technology Services &amp; Support:</b>	IT Essentials I	IT Essentials II	IT Essentials Advanced Studies or Networking I	Elective or Networking II	<b>A+ (CompTIA) CISCO Certification</b>
<b>Web Design &amp; Development:</b>	Web Design & Develop. I	Web Design & Develop. II	Web Design & Develop. III	Web Design & Develop Adv. Study	
<b>Graphic Design:</b>	Graphic Design I	Graphic Design II	Graphic Design III	Graphic Design Advance Study	<b>Adobe Certifications</b>
<b>Digital Video &amp; Broadcasting Production:</b>	Video Production I	Video Production II	Video Production III	Video Production Advanced Study	<b>Adobe Certifications Apple Certifications</b>
<b>Animation:</b>	Animation I	Animation II	Animation III	Animation Advanced Study	<b>Adobe Certifications</b>
<b>Photography:</b>	Photography I	Photography II	Photography III	Photography Advanced Studies	<b>Adobe Certifications</b>

This program of study is based upon the requirements needed for an Advanced Diploma. Academic course names may vary among school districts. For detail information please visit: <http://ctae.nv.gov/>

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