



Computer Science and Information Technology  
<http://www.cs.usna.edu>

# Why major in CS or IT?

- **Fastest growing** segment of our economy
- **Military officers** well versed in computer systems can apply that knowledge to any mission
- **Huge demand** for people with a high level of computer systems knowledge
- **High paying and satisfying** careers after transition

## Recent highlights

- 2005 All Service Cyber Defense Exercise (CDX) Champion
- Rhodes, Marshall, VGEP & Trident Scholars
- Internships with NSA, NATO headquarters, DISA
- Many selections for **Aviation, Marines, SEALs, and Nuclear**

## Top 10 Best Jobs

Considering growth, pay, stress levels and other factors  
(CNNMoney.com, Dec 11, 2006)

1. Software Engineer	\$80,427
2. College Professor	\$81,491
3. Financial Advisor	\$122,460
4. Human Res. Manager	\$73,731
5. Physician Assistant	\$75,117
6. Market Res. Analyst	\$82,317
7. Computer IT Analyst	\$83,427
8. Real Estate Appraiser	\$66,216
9. Pharmacist	\$91,998
10. Psychologist	\$66,359

## Can I succeed with no prior programming experience?

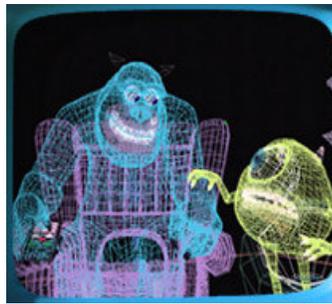
- **YES!** Look for some “positive indicators of success”:
  - MSAT  $\geq$  620
  - C or better in Calc I
  - CQPR  $\geq$  2.5

# What's the difference between CS & IT?

- **CS** is the traditional computing degree and encompasses algorithms, artificial intelligence, robotics, and graphics.
- **IT** is a more applied computing degree and encompasses web technology, databases, and computer security.
- **Both** majors provide a strong computing foundation for technical or management responsibilities and/or graduate study.
- **Both** majors allow electives from CS or IT (must satisfy pre-reqs).

## ➤ **CS & IT required courses:**

IC210 Intro to Computing  
IC211 Object-Oriented Prog.  
IC220 Computer Org. and Arch.  
IC221 Systems Programming  
IC312 Data Structures  
IC322 Computer Networks  
IC480 Capstone Project



## ➤ **CS required courses:**

SI335 Computer Algorithms  
SI336 Software Engineering  
SI340 Theory of Computing  
SI413 Programming Languages

## ➤ **CS electives (take 3 or more):**

Artificial Intelligence, Adv. Software Engineering, Operating Systems, Database Systems, Adv. Comp. Architecture, Adv. Comp. Networks, Computer Graphics, Advanced Graphics, Intelligent Robotics.  
Two can be an advanced IT course.

## ➤ **IT required courses:**

IT350 Web & Internet Computing  
IT360 Applied Database Systems  
IT430 Info Assurance & Net. Security  
IT440 Systems Analysis & Design

## ➤ **IT electives (take 3 or more):**

Advanced Information Assurance and Network Security, Adv. Web and Internet Systems, Adv. Database Systems, Human Computer Interaction, Enterprise Computing.  
Two can be an advanced CS course.  
Must take one of first three listed.

## Still not sure CS or IT?

**Stop in** and talk with our faculty (we rarely bite), or ask any CS or IT major in your company about our program.

**Email** Prof. Kay Schulze, [schulze@usna.edu](mailto:schulze@usna.edu), for info

**Pick either!** Same courses for 3/C year; easy to switch