Information Technology

What is Information Technology?

Because technology is constantly evolving, information technologists need a strong background in the technical fundamentals of computing and creativity and drive to stay updated on the newest advances in the field. That's because there's never one way to solve a problem.

The Information technology and business are becoming inextricably interwoven. I don't think anybody can talk meaningfully about one without the talking about the other. - Bill Gates

What kind of jobs will the Information Technology concentration lead to?

Potential career options for Information Technology are:
IT Project Manager, Computer Support Specialist, and Technical Support Specialist.

What classes make up the Information Technology concentration?

All students in the Information Technology concentration MUST take the following classes:

I INF 302 Human-Computer Interactive Design
This course examines human factors, Human-Computer Interaction aspects of application domains, human-centered evaluation, developing effective interfaces, accessibility, emerging technologies, and human-centered computing. Students learn several techniques for rapid prototyping and evaluating multiple interface alternatives and principles of visual design. Information visualization, user interface software architecture, and formal methods in HCI will be explored. Prerequisite(s): I INF 301

I INF 303 Intermediate Networking
This course is designed to convey the essentials of data communication networks. It will cover concepts, technologies and architectures. There will be practical lessons built into the semester’s topics and assignments whenever possible. This course will build on the networking knowledge gained in I INF 203, covering the major conceptual areas balanced with practical discussions and exercises. It will also discuss important network management topics such as domain management and security. Prerequisite(s): I INF 203. Students who have taken INF/IST 423 may not take I INF 203 for credit.

I INF 306 Information Security and Assurance
Technical aspects of Cyber-security in computer and network systems. The nature of attacks and defense in digital systems; models of vulnerabilities, threats and security; cryptography; forensics; security policies and procedures; software and network security. Prerequisite(s): I INF 202.

I INF 308 Programming for Informatics
Computer Programming in an Informatics environment. The fundamentals of programming, including introduction to algorithms, object-oriented design, and data structures. Additional topics include basic interface design, security, networking, use of data bases, and mobile and other non-traditional computing platforms. Prerequisite(s): I CSI 105 and I INF 100.

http://www.brainyquote.com/quotes/authors/b/bill_gates.html