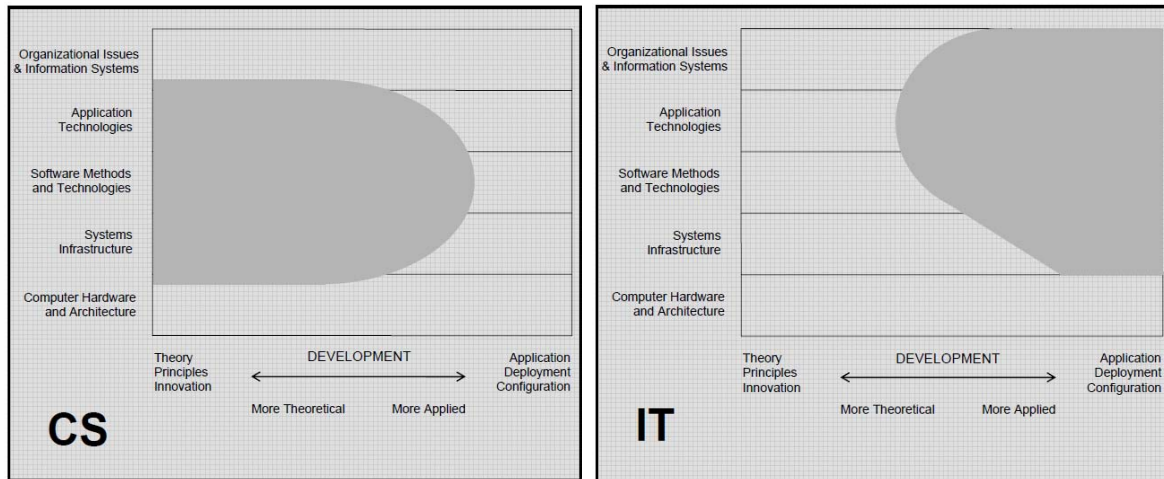


Information Technology Major

The IT Major is an alternative to the CS major. Whereas the latter is more theoretical in nature, IT is more practical and includes organizational issues and information systems. It deals more with soft skills and has fewer math prerequisites. The following 2 diagrams, taken from The Association for Computing Machinery's Computing Curriculum 2005 report help make clear the difference in focus:



ACM's Computing Curriculum 2005 report identifies 5 majors in the computing disciplines: CS, Computer Engineering, Information Systems, Software Engineering, and IT. The latter is defined by that document as being "concerned with issues related to advocating for users and meeting their needs within an organizational and societal context through the selection, creation, application, integration and administration of computing technologies." Whereas the Information Systems major "focuses on the information aspects of information technology, [IT] is the complement of that perspective: its emphasis is on the technology itself more than on the information it conveys. IT is a new and rapidly growing field that started as a grassroots response to the practical, everyday needs of business and other organizations. [...] Degree programs in information technology arose because degree programs in the other computing disciplines were not producing an adequate supply of graduates capable of handling these very real needs. IT programs exist to produce graduates who possess the right combination of knowledge and practical, hands-on expertise to take care of both an organization's information technology infrastructure and the people who use it."

Name of major, minor, or program: Information Technology Major	
Course	Credit
CSC115 Computer Science: Introduction & Overview	3
CSC125 Computer Science I: Programming in Java	4
CSC1xx System Administration & Maintenance	3
CSC235 Computer Ethics	3
CSC2xx Fundamentals of Human Computer Interaction	3
CSC321 Database Management Systems	3
CSC341 Software Engineering	3
CSC360 Web Building & Site Management	3
CSC365 Data Communications and Networking	3
CSC3xx Information Assurance & Security	3
CSC455 Programming Languages	3
CSC485 Internship	3
CSC498 Seminar	2
Prerequisite: MAT205 Discrete Math	
Prerequisite: Technical Writing (possibly special topics class with CSC prefix until offered by ENG Dept)	
<i>Total Number of Hours</i>	39

- **System Administration and Maintenance (CSC1xx)**

Introduces students to system administration and maintenance as well as platform technologies. Includes operating systems, applications, administrative activities and domains, computer architecture and organization, and computing infrastructures. Focuses on the Linux operating system.

- **Fundamentals of Human Computer Interaction (CSC2xx)**

Introduces students to HCI. Includes human factors, HCI aspects of application domains, human-centered evaluation, developing effective interfaces, accessibility, emerging technologies, human –centered software development.

- **Information Assurance and Security (CSC3xx)**

Introduces students to IAS. Includes fundamental aspects, security mechanism, operational issues, policy, attacks, security domains, forensics, information states, security services, threat analysis and vulnerabilities.