

**Information Networking and Telecommunications:
Computer Networking & Telecommunications
Department/Major Requirements**

Rev. 8/14/08

Hours

Information Networking and Telecommunications Major Core

INT 250 Introduction to Web Development (F, S, U, c) (F, S, U, vc)	3
INT 300 Foundations of Information Networking (F, c) (F,S,U vc)	3
INT 405 Research Methods in Information Networking (S,c)(S, vc).....	3
INT 430 Leadership in Information Networking (F, c) (F, vc).....	3
INT 490 Capstone Seminar in Information Networking (S of senior year, c & vc)	3
POLS/INT 610 Public Policy, Ethics and Law in Information Networking (S, c) (S, vc)	3
Total	18

Concentration Requirements Computer Networking and Telecommunications

PHYS 230 Telecommunications Electronics (F, c) (U, vc).....	3
INT 291 Internetworking I (CCNA Prep)(S, c) (F, S, U, vc)	3
INT 292 Internetworking II (CCNA Prep)(F, c)(F, S, U, vc).....	3
INT 680 Network Architecture and Data Communications I (F, c) (F, vc).....	3
INT 681 Network Architecture and Data Communications II (S, c) (S, vc)	3
Total	15

Cross Concentration Elective Media Studies

Choose one:

INT 140 Introduction to Electronic Media (F, c) (F, S, U, vc)	
INT 346 Video Production (F, c)	
INT 348 Beginning Audio Production (S, c)	
INT 349 Campus Television Station Operations (F, c)	
Total	3

Cross Concentration Elective Web Development

Choose one:

INT 650 Interactive Systems Design (F, S, U, vc)	
INT 651 Advanced Web Development (F, c, vc)	
INT 658 Law of Cyberspace (F, c) (S, vc)	
Total	3
Degree Total	39

Computer Networking & Telecommunications Emphasis Options

(Five or more courses, special programs and generally recommended sets are indicated)

Advanced Internetworking Emphasis (Five Courses Needed):

INT 293 Internetworking III (CCNA Prep) (F, S, U, c, vc)	
INT 664 Wireless and Cellular Systems (CWNA Prep) (S, c)	
INT 684 Foundations of Information Systems Security (F,vc)	
INT 685 Fundamentals of Network Security (MCNS, CSPFA) (F, vc)	
INT 695 Advanced Routing (CCNP Prep 1) (F, c, vc)	
INT 696 Securing Converged WANS (CCNP Prep 2) (S, c, vc)	
INT 697 Advanced LAN Switching (CCNP Prep3) (F, c, vc)	
INT 698 Optimizing Converged Networks (CCNP Prep 4) (S, c, vc)	
Total	15

Telecommunications Emphasis

INT 293 Internetworking III (S, c)(F, S, U, vc)	
INT 660 Global Telecom (F, vc)	
INT 662 Modern Telephony (F, vc)	
INT 664 Wireless and Cellular Systems (CWNA Prep) (S, c)	
INT 678 Seminar in INT/Unix Administration (S, vc)	
Total	15

Information Assurance Emphasis (Five Courses Needed):

- INT 293 Internetworking III (CCNA Prep) (F, S, c) (F, S, vc)
- INT 684 Foundations of Information Systems Security (F, vc)
- INT 685 Fundamentals of Network Security (MCNS, CSPFA) (F, vc)
- INT 686 Network Security Firewalls (S, vc)
- INT 678 Seminar in INT/Management of Information Security
- MIS 605 Principles of Computer Security and Forensics
- INT 678 Seminar in INT/UNIX Administration (S, vc)
 - or INT 671 Linux for Networks (S, vc)
- INT 672 Advanced Linux for Networks (F, vc)
 - or INT 654 Introduction to Web-Enabled Databases: Oracle (F, C) (F,vc)

Total..... 15

IT Services Emphasis:

- INT 293 Internetworking III (CCNA Prep) (F, S, c) (F, S, vc)
- INT 654 Introduction to Web Enabled Databases/Oracle (F, c, vc)
- INT 678 Seminar in INT: Unix Administration (S, vc) or INT 671 Linux for Networks (S, vc)
- INT 678 Seminar in INT: IT Project Administration (S, vc)
- MIS 203 Topics in MIS/Computer Repair & Maintenance/A+ Certification

Total..... 15

Web Emphasis (Five needed)– cannot count cross-emphasis web class or concentration class)

- INT 650 Interactive Systems Design (F, S, U, vc) (S, c)
- INT 651 Advanced Web Development (F, c, vc)
- INT 652 Intensive Web Development (S, c, vc)
- INT 654 Intro to Web Enabled Databases: Oracle (F, c) (F, vc)
- INT 655 Web Enabled Database Administration: Oracle (S, c) (odd numbered Spring Semesters, vc)
- INT 658 Law of Cyberspace (S, c, vc)

Total..... 15

General IT Emphasis

- INT 662 Modern Telephony (F, vc)
- INT 678 Seminar in INT: UNIX Administration (S, vc)
- CSCI 261 Computer Science I (F, c)
- MIS 303 Computer Operating Systems (F, c)
- MIS 605 Management Information Systems

Total..... 15

Geographic Information Systems Emphasis

- GSCI 240 Introduction to Geographic Information Systems
- GSCI 290 Cartography: Theory and Applications
- GSCI 360 Intermediate Geographic Information Systems
- GSCI 425 Advanced Geographic Information Systems
- GSCI 474 Aerial Photographs and Remote Sensing

Total..... 15

Leadership Studies Certificate (Not INT Emphasis):

- LDRS 300 Introduction to leadership Concepts
- LDRS 302 Introduction to Leadership Behavior
- LDRS 310 Field Work in Leadership Studies

General INT Electives for Selection

Emphasis can be custom designed by the advisor and student. All INT, MIS, and Computer Science, classes may be considered. Classes not listed above, but worthy of attention are:

- INT 472 Readings in INT (as approved by advisor) (F, S, c) (F, S, vc)
- INT 473 Problems in INT (as approved by advisor) (F, S)
- INT 479 Internship in INT (encouraged, up to 6 hours) (F, S, U, c) (F, S, U, vc)
- INT 672 Advanced Linux in Networking (S, vc)
- INT 678 Seminar in INT/IT Project Management (F, vc)

INT 678 Seminar in INT/IT Entrepreneurship	
INT 684 Foundations of Information Systems Security (F, vc)	
CSCI 262 Computer Science II	
CSCI 369 Java Programming	
MIS 605 Management Information Systems	
MIS 602 Information Systems Design and Development	
MIS 573 Problems in CIS: Electronic Commerce	
MIS 573 Problems in CIS: MCSE Prep I	
MIS 573 Problems in CIS: MCSE Prep II	
Total	15
Required General Education Classes: MATH 110 College Algebra	3
COMM 318 Introduction to Organizational Communication	3
MATH 250 Elements of Statistics	3
Total Major and Emphasis Requirements	54
Free Electives:	BA Degree 5, BS Degree 15
Total	
General Education Requirements	BA Degree 56, BS Degree 55
Department/Major Requirements	54
Free Electives	BA Degree 5, BS Degree 15
Total	124