



FORT HAYS STATE UNIVERSITY

DEPARTMENT OF INFORMATICS

Forward thinking. World ready.

Phone: (785) 628-5373

Website: www.fhsu.edu/informatics

Email: informatics@fhsu.edu

Degree Requirements for Bachelors in Information Networking and Telecommunications

WEB & MOBILE APPLICATION DEVELOPMENT CONCENTRATION							
INFORMATICS MAJOR CORE (18 hours)	Hr	Sm	Grd	Students will work with their advisor to tailor their remaining 15 hours of electives for their major from the following courses, based upon their professional interests and goals:			
INF 250 Introduction to Web Development	3						
INF 300 Foundations of Informatics	3						
INF 405 Research Methods in Informatics	3						
INF 430 Technology Innovation and Entrepreneurial Leadership	3			INF 240 News Reporting	3		
INF 490 Capstone Seminar in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 304 Management Information Systems	3		
				INF 330 Business Intelligence	3		
				INF 346 Beginning Video Production*	3		
				INF 348 Beginning Audio Production*	3		
CONCENTRATION REQUIREMENTS (15 hours)	Hr	Sm	Grd	INF 360 Programming with Python	3		
INF 650 Introduction to Human-Computer Interaction	3			INF 393 Internetworking III (CCENT prep)	3		
INF 651 Front-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 652 Database Design & Programming	3			INF 470 Workshop in INF (as approved by advisor)	3		
INF 653 Back-End Web Development I	3			INF 472 Readings in INF (as approved by advisor)	3		
INF 654 Mobile Web Development I	3			INF 473 Problems in INF (as approved by advisor)	3		
				INF 476 Apprenticeship in INF (as approved by advisor)	3		
CROSS CONCENTRATION ELECTIVES: (6 Hours)	Hr	Sm	Grd	INF 479 Internship in INF (encouraged, up to 6 hours - as approved by advisor)	3		
<i>Choose 2 with no more than one from each concentration</i>				INF 621 News Editing	3		
Computer Networking & Telecommunications				INF 624 Continuity Writing	3		
INF 291 Internetworking I	3			INF 625 Advanced Digital Journalism	3		
Cybersecurity				INF 633 Advanced Video Production	3		
INF 360 Programming with Python	3			INF 634 Graphics and Effects for Video and Film	3		
Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
INF 402 Windows Server Administration	3			INF 680 Network Architecture and Data Communication I	3		
INF 603 Big Data Analytics	3						
CORE/CROSS CONCENTRATION TOTAL	39			Additional follow on page 2			



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WEB DEVELOPMENT CONCENTRATION (continued)							
INF 681 Network Architecture and Data Communication II	3			TOTAL MAJOR & EMPHASIS REQUIREMENTS	54		
INF 684 Foundations of Information Systems Security	3						
INF 685 Fundamentals of Network Security (MCNS, CSPFA)	3			REQUIRED COGNATE COURSES			
INF 695 Advanced Routing (CCNP Prep 1)	3			COMM 318 Intro to Organizational Communication	3		
INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
	3			MATH 250 Elements of Statistics	3		
MGT 601 Project Management	3						
MKT 301 Marketing Principles	3			BACHELOR DEGREE REQUIREMENTS		BA	BS
MKT 609 Strategic Electronic Marketing	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
ART 233 Computer-Assisted Graphic Design	3			EMPHASIS REQUIREMENTS		15	15
ART 240 Basic Design <i>should be elective taken in concentration and not counted in emphasis</i>	3			FREE ELECTIVES		1	11
ART 243 Graphic Design	3			UNIVERSITY DEGREE REQUIREMENTS		65	55
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3			TOTAL CREDIT HOURS		120	120
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3						
ART 475 Topics of Art: Photographic Vision or COMM 129 Elements of Photography	3						
	3						
CSCI 461 Programming Languages	3						
CSCI 461 Programming Languages	3						
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INF 300 Foundations of Informatics	3			INF 240 News Reporting	3		
INF 405 Research Methods in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 430 Technology Innovation and Entrepreneurial Leadership	3			INF 304 Management Information Systems	3		
INF 490 Capstone Seminar in Informatics	3			INF 330 Business Intelligence	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 346 Beginning Video Production*	3		
				INF 348 Beginning Audio Production*	3		
CONCENTRATION REQUIREMENTS (15 hours)	Hr	Sm	Grd	INF 360 Programming with Python	3		
INF 650 Introduction to Human-Computer Interaction	3			INF 393 Internetworking III (CCENT prep)	3		
INF 651 Front-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 652 Database Design & Programming	3			INF 470 Workshop in INF (as approved by advisor)	3		
INF 653 Back-End Web Development I	3			INF 472 Readings in INF (as approved by advisor)	3		
INF 654 Mobile Web Development I	3			INF 473 Problems in INF (as approved by advisor)	3		
				INF 476 Apprenticeship in INF (as approved by advisor)	3		
CROSS CONCENTRATION ELECTIVES: (6 Hours)	Hr	Sm	Grd	INF 479 Internship in INF (encouraged, up to 6 hours - as approved by advisor)	3		
<i>Choose 2 with no more than one from each concentration</i>				INF 621 News Editing	3		
Computer Networking & Telecommunications				INF 624 Continuity Writing	3		
INF 291 Internetworking I	3			INF 625 Advanced Digital Journalism	3		
Cybersecurity				INF 633 Advanced Video Production	3		
INF 360 Programming with Python	3			INF 634 Graphics and Effects for Video and Film	3		
Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
INF 402 Windows Server Administration	3			INF 680 Network Architecture and Data Communication I	3		
INF 603 Big Data Analytics	3						
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INF 684 Foundations of Information Systems Security	3						
INF 685 Fundamentals of Network Security (MCNS, CSPFA)	3			REQUIRED COGNATE COURSES			
INF 695 Advanced Routing (CCNP Prep 1)	3			COMM 318 Intro to Organizational Communication	3		
INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
	3			MATH 250 Elements of Statistics	3		
MGT 601 Project Management	3						
MKT 301 Marketing Principles	3			BACHELOR DEGREE REQUIREMENTS		BA	BS
MKT 609 Strategic Electronic Marketing	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
ART 233 Computer-Assisted Graphic Design	3			EMPHASIS REQUIREMENTS		15	15
ART 240 Basic Design <i>should be elective taken in concentration and not counted in emphasis</i>	3			FREE ELECTIVES		1	11
ART 243 Graphic Design	3			UNIVERSITY DEGREE REQUIREMENTS		65	55
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3			TOTAL CREDIT HOURS		120	120
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3						
ART 475 Topics of Art: Photographic Vision or COMM 129 Elements of Photography	3						
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CSCI 461 Programming Languages	3						
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INF 405 Research Methods in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 430 Technology Innovation and Entrepreneurial Leadership	3			INF 304 Management Information Systems	3		
INF 490 Capstone Seminar in Informatics	3			INF 330 Business Intelligence	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 346 Beginning Video Production*	3		
				INF 348 Beginning Audio Production*	3		
CONCENTRATION REQUIREMENTS (15 hours)	Hr	Sm	Grd	INF 360 Programming with Python	3		
INF 650 Introduction to Human-Computer Interaction	3			INF 393 Internetworking III (CCENT prep)	3		
INF 651 Front-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 652 Database Design & Programming	3			INF 470 Workshop in INF (as approved by advisor)	3		
INF 653 Back-End Web Development I	3			INF 472 Readings in INF (as approved by advisor)	3		
INF 654 Mobile Web Development I	3			INF 473 Problems in INF (as approved by advisor)	3		
				INF 476 Apprenticeship in INF (as approved by advisor)	3		
CROSS CONCENTRATION ELECTIVES: (6 Hours)	Hr	Sm	Grd	INF 479 Internship in INF (encouraged, up to 6 hours - as approved by advisor)	3		
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INF 291 Internetworking I	3			INF 625 Advanced Digital Journalism	3		
Cybersecurity				INF 633 Advanced Video Production	3		
INF 360 Programming with Python	3			INF 634 Graphics and Effects for Video and Film	3		
Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
INF 402 Windows Server Administration	3			INF 680 Network Architecture and Data Communication I	3		
INF 603 Big Data Analytics	3						
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INF 695 Advanced Routing (CCNP Prep 1)	3			COMM 318 Intro to Organizational Communication	3		
INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
	3			MATH 250 Elements of Statistics	3		
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MKT 609 Strategic Electronic Marketing	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
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INF 405 Research Methods in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 430 Technology Innovation and Entrepreneurial Leadership	3			INF 304 Management Information Systems	3		
INF 490 Capstone Seminar in Informatics	3			INF 330 Business Intelligence	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 346 Beginning Video Production*	3		
				INF 348 Beginning Audio Production*	3		
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INF 650 Introduction to Human-Computer Interaction	3			INF 393 Internetworking III (CCENT prep)	3		
INF 651 Front-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 652 Database Design & Programming	3			INF 470 Workshop in INF (as approved by advisor)	3		
INF 653 Back-End Web Development I	3			INF 472 Readings in INF (as approved by advisor)	3		
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Cybersecurity				INF 633 Advanced Video Production	3		
INF 360 Programming with Python	3			INF 634 Graphics and Effects for Video and Film	3		
Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
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INF 685 Fundamentals of Network Security (MCNS, CSPFA)	3			REQUIRED COGNATE COURSES			
INF 695 Advanced Routing (CCNP Prep 1)	3			COMM 318 Intro to Organizational Communication	3		
INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
	3			MATH 250 Elements of Statistics	3		
MGT 601 Project Management	3						
MKT 301 Marketing Principles	3			BACHELOR DEGREE REQUIREMENTS		BA	BS
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ART 233 Computer-Assisted Graphic Design	3			EMPHASIS REQUIREMENTS		15	15
ART 240 Basic Design <i>should be elective taken in concentration and not counted in emphasis</i>	3			FREE ELECTIVES		1	11
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INF 405 Research Methods in Informatics	3						
INF 430 Technology Innovation and Entrepreneurial Leadership	3			INF 240 News Reporting	3		
INF 490 Capstone Seminar in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 304 Management Information Systems	3		
				INF 330 Business Intelligence	3		
CONCENTRATION REQUIREMENTS (15 hours)	Hr	Sm	Grd	INF 346 Beginning Video Production*	3		
INF 650 Introduction to Human-Computer Interaction	3			INF 348 Beginning Audio Production*	3		
INF 651 Front-End Web Development I	3			INF 360 Programming with Python	3		
INF 652 Database Design & Programming	3			INF 393 Internetworking III (CCENT prep)	3		
INF 653 Back-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 654 Mobile Web Development I	3			INF 470 Workshop in INF (as approved by advisor)	3		
				INF 472 Readings in INF (as approved by advisor)	3		
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Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
INF 402 Windows Server Administration	3			INF 680 Network Architecture and Data Communication I	3		
INF 603 Big Data Analytics	3						
CORE/CROSS CONCENTRATION TOTAL	39			<i>Additional follow on page 2</i>			



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INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
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INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
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	3			MATH 250 Elements of Statistics	3		
MGT 601 Project Management	3						
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INFORMATICS MAJOR CORE (18 hours)	Hr	Sm	Grd	Students will work with their advisor to tailor their remaining 15 hours of electives for their major from the following courses, based upon their professional interests and goals:			
INF 250 Introduction to Web Development	3						
INF 300 Foundations of Informatics	3						
INF 405 Research Methods in Informatics	3						
INF 430 Technology Innovation and Entrepreneurial Leadership	3			INF 240 News Reporting	3		
INF 490 Capstone Seminar in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 304 Management Information Systems	3		
				INF 330 Business Intelligence	3		
CONCENTRATION REQUIREMENTS (15 hours)	Hr	Sm	Grd	INF 346 Beginning Video Production*	3		
INF 650 Introduction to Human-Computer Interaction	3			INF 348 Beginning Audio Production*	3		
INF 651 Front-End Web Development I	3			INF 360 Programming with Python	3		
INF 652 Database Design & Programming	3			INF 393 Internetworking III (CCENT prep)	3		
INF 653 Back-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 654 Mobile Web Development I	3			INF 470 Workshop in INF (as approved by advisor)	3		
				INF 472 Readings in INF (as approved by advisor)	3		
				INF 473 Problems in INF (as approved by advisor)	3		
				INF 476 Apprenticeship in INF (as approved by advisor)	3		
CROSS CONCENTRATION ELECTIVES: (6 Hours)	Hr	Sm	Grd	INF 479 Internship in INF (encouraged, up to 6 hours - as approved by advisor)	3		
<i>Choose 2 with no more than one from each concentration</i>				INF 621 News Editing	3		
Computer Networking & Telecommunications				INF 624 Continuity Writing	3		
INF 291 Internetworking I	3			INF 625 Advanced Digital Journalism	3		
Cybersecurity				INF 633 Advanced Video Production	3		
INF 360 Programming with Python	3			INF 634 Graphics and Effects for Video and Film	3		
Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
INF 402 Windows Server Administration	3			INF 680 Network Architecture and Data Communication I	3		
INF 603 Big Data Analytics	3						
CORE/CROSS CONCENTRATION TOTAL	39			Additional follow on page 2			



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WEB DEVELOPMENT CONCENTRATION (continued)							
INF 681 Network Architecture and Data Communication II	3			TOTAL MAJOR & EMPHASIS REQUIREMENTS	54		
INF 684 Foundations of Information Systems Security	3						
INF 685 Fundamentals of Network Security (MCNS, CSPFA)	3			REQUIRED COGNATE COURSES			
INF 695 Advanced Routing (CCNP Prep 1)	3			COMM 318 Intro to Organizational Communication	3		
INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
	3			MATH 250 Elements of Statistics	3		
MGT 601 Project Management	3						
MKT 301 Marketing Principles	3			BACHELOR DEGREE REQUIREMENTS		BA	BS
MKT 609 Strategic Electronic Marketing	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
ART 233 Computer-Assisted Graphic Design	3			EMPHASIS REQUIREMENTS		15	15
ART 240 Basic Design <i>should be elective taken in concentration and not counted in emphasis</i>	3			FREE ELECTIVES		1	11
ART 243 Graphic Design	3			UNIVERSITY DEGREE REQUIREMENTS		65	55
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3			TOTAL CREDIT HOURS		120	120
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3						
ART 475 Topics of Art: Photographic Vision or COMM 129 Elements of Photography	3						
	3						
CSCI 461 Programming Languages	3						
CSCI 461 Programming Languages	3						
				*Courses taken as conentration electives do not count when calculating emphasis credits.			

Notes:



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Degree Requirements for Bachelors in Information Networking and Telecommunications

WEB & MOBILE APPLICATION DEVELOPMENT CONCENTRATION							
INFORMATICS MAJOR CORE (18 hours)	Hr	Sm	Grd	Students will work with their advisor to tailor their remaining 15 hours of electives for their major from the following courses, based upon their professional interests and goals:			
INF 250 Introduction to Web Development	3						
INF 300 Foundations of Informatics	3						
INF 405 Research Methods in Informatics	3						
INF 430 Technology Innovation and Entrepreneurial Leadership	3			INF 240 News Reporting	3		
INF 490 Capstone Seminar in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 304 Management Information Systems	3		
				INF 330 Business Intelligence	3		
CONCENTRATION REQUIREMENTS (15 hours)	Hr	Sm	Grd	INF 346 Beginning Video Production*	3		
INF 650 Introduction to Human-Computer Interaction	3			INF 348 Beginning Audio Production*	3		
INF 651 Front-End Web Development I	3			INF 360 Programming with Python	3		
INF 652 Database Design & Programming	3			INF 393 Internetworking III (CCENT prep)	3		
INF 653 Back-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 654 Mobile Web Development I	3			INF 470 Workshop in INF (as approved by advisor)	3		
				INF 472 Readings in INF (as approved by advisor)	3		
				INF 473 Problems in INF (as approved by advisor)	3		
				INF 476 Apprenticeship in INF (as approved by advisor)	3		
CROSS CONCENTRATION ELECTIVES: (6 Hours)	Hr	Sm	Grd	INF 479 Internship in INF (encouraged, up to 6 hours - as approved by advisor)	3		
<i>Choose 2 with no more than one from each concentration</i>				INF 621 News Editing	3		
Computer Networking & Telecommunications				INF 624 Continuity Writing	3		
INF 291 Internetworking I	3			INF 625 Advanced Digital Journalism	3		
Cybersecurity				INF 633 Advanced Video Production	3		
INF 360 Programming with Python	3			INF 634 Graphics and Effects for Video and Film	3		
Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
INF 402 Windows Server Administration	3			INF 680 Network Architecture and Data Communication I	3		
INF 603 Big Data Analytics	3						
CORE/CROSS CONCENTRATION TOTAL	39			Additional follow on page 2			



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WEB DEVELOPMENT CONCENTRATION (continued)							
INF 681 Network Architecture and Data Communication II	3			TOTAL MAJOR & EMPHASIS REQUIREMENTS	54		
INF 684 Foundations of Information Systems Security	3						
INF 685 Fundamentals of Network Security (MCNS, CSPFA)	3			REQUIRED COGNATE COURSES			
INF 695 Advanced Routing (CCNP Prep 1)	3			COMM 318 Intro to Organizational Communication	3		
INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
	3			MATH 250 Elements of Statistics	3		
MGT 601 Project Management	3						
MKT 301 Marketing Principles	3			BACHELOR DEGREE REQUIREMENTS		BA	BS
MKT 609 Strategic Electronic Marketing	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
ART 233 Computer-Assisted Graphic Design	3			EMPHASIS REQUIREMENTS		15	15
ART 240 Basic Design <i>should be elective taken in concentration and not counted in emphasis</i>	3			FREE ELECTIVES		1	11
ART 243 Graphic Design	3			UNIVERSITY DEGREE REQUIREMENTS		65	55
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3			TOTAL CREDIT HOURS		120	120
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3						
ART 475 Topics of Art: Photographic Vision or COMM 129 Elements of Photography	3						
	3						
CSCI 461 Programming Languages	3						
CSCI 461 Programming Languages	3						
				*Courses taken as conentration electives do not count when calculating emphasis credits.			

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WEB & MOBILE APPLICATION DEVELOPMENT CONCENTRATION							
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INF 300 Foundations of Informatics	3						
INF 405 Research Methods in Informatics	3						
INF 430 Technology Innovation and Entrepreneurial Leadership	3			INF 240 News Reporting	3		
INF 490 Capstone Seminar in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 304 Management Information Systems	3		
				INF 330 Business Intelligence	3		
CONCENTRATION REQUIREMENTS (15 hours)	Hr	Sm	Grd	INF 346 Beginning Video Production*	3		
INF 650 Introduction to Human-Computer Interaction	3			INF 348 Beginning Audio Production*	3		
INF 651 Front-End Web Development I	3			INF 360 Programming with Python	3		
INF 652 Database Design & Programming	3			INF 393 Internetworking III (CCENT prep)	3		
INF 653 Back-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 654 Mobile Web Development I	3			INF 470 Workshop in INF (as approved by advisor)	3		
				INF 472 Readings in INF (as approved by advisor)	3		
				INF 473 Problems in INF (as approved by advisor)	3		
				INF 476 Apprenticeship in INF (as approved by advisor)	3		
CROSS CONCENTRATION ELECTIVES: (6 Hours)	Hr	Sm	Grd	INF 479 Internship in INF (encouraged, up to 6 hours - as approved by advisor)	3		
<i>Choose 2 with no more than one from each concentration</i>				INF 621 News Editing	3		
Computer Networking & Telecommunications				INF 624 Continuity Writing	3		
INF 291 Internetworking I	3			INF 625 Advanced Digital Journalism	3		
Cybersecurity				INF 633 Advanced Video Production	3		
INF 360 Programming with Python	3			INF 634 Graphics and Effects for Video and Film	3		
Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
INF 402 Windows Server Administration	3			INF 680 Network Architecture and Data Communication I	3		
INF 603 Big Data Analytics	3						
CORE/CROSS CONCENTRATION TOTAL	39			<i>Additional follow on page 2</i>			



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WEB DEVELOPMENT CONCENTRATION (continued)							
INF 681 Network Architecture and Data Communication II	3			TOTAL MAJOR & EMPHASIS REQUIREMENTS	54		
INF 684 Foundations of Information Systems Security	3						
INF 685 Fundamentals of Network Security (MCNS, CSPFA)	3			REQUIRED COGNATE COURSES			
INF 695 Advanced Routing (CCNP Prep 1)	3			COMM 318 Intro to Organizational Communication	3		
INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
	3			MATH 250 Elements of Statistics	3		
MGT 601 Project Management	3						
MKT 301 Marketing Principles	3			BACHELOR DEGREE REQUIREMENTS		BA	BS
MKT 609 Strategic Electronic Marketing	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
ART 233 Computer-Assisted Graphic Design	3			EMPHASIS REQUIREMENTS		15	15
ART 240 Basic Design <i>should be elective taken in concentration and not counted in emphasis</i>	3			FREE ELECTIVES		1	11
ART 243 Graphic Design	3			UNIVERSITY DEGREE REQUIREMENTS		65	55
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3			TOTAL CREDIT HOURS		120	120
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3						
ART 475 Topics of Art: Photographic Vision or COMM 129 Elements of Photography	3						
	3						
CSCI 461 Programming Languages	3						
CSCI 461 Programming Languages	3						
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INF 490 Capstone Seminar in Informatics	3			INF 292 Internetworking II (CCENT prep)	3		
INF 610 Public Policy, Ethics and Law in Telecommunications	3			INF 304 Management Information Systems	3		
				INF 330 Business Intelligence	3		
CONCENTRATION REQUIREMENTS (15 hours)	Hr	Sm	Grd	INF 346 Beginning Video Production*	3		
INF 650 Introduction to Human-Computer Interaction	3			INF 348 Beginning Audio Production*	3		
INF 651 Front-End Web Development I	3			INF 360 Programming with Python	3		
INF 652 Database Design & Programming	3			INF 393 Internetworking III (CCENT prep)	3		
INF 653 Back-End Web Development I	3			INF 420 Social Issues and Informatics	3		
INF 654 Mobile Web Development I	3			INF 470 Workshop in INF (as approved by advisor)	3		
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Cybersecurity				INF 633 Advanced Video Production	3		
INF 360 Programming with Python	3			INF 634 Graphics and Effects for Video and Film	3		
Digital Media Production & Journalism				INF 655 Front-End Web Development II	3		
INF 140 Introduction to Electronic Media	3			INF 660 Global Telecom	3		
INF 346 Beginning Video Production	3			INF 662 Modern Telephony	3		
INF 348 Beginning Audio Production	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3		
Information Systems				INF 671 Linux in Networks	3		
INF 302 Windows Client Administration	3			INF 678 Seminar in INF/Virtualized Infrastructure (S, c)	3		
INF 402 Windows Server Administration	3			INF 680 Network Architecture and Data Communication I	3		
INF 603 Big Data Analytics	3						
CORE/CROSS CONCENTRATION TOTAL	39			<i>Additional follow on page 2</i>			



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WEB DEVELOPMENT CONCENTRATION (continued)							
INF 681 Network Architecture and Data Communication II	3			TOTAL MAJOR & EMPHASIS REQUIREMENTS	54		
INF 684 Foundations of Information Systems Security	3						
INF 685 Fundamentals of Network Security (MCNS, CSPFA)	3			REQUIRED COGNATE COURSES			
INF 695 Advanced Routing (CCNP Prep 1)	3			COMM 318 Intro to Organizational Communication	3		
INF 697 Advanced LAN Switching (CCNP Prep 3)	3			MATH 110 College Algebra (<i>or higher</i>)	3		
	3			MATH 250 Elements of Statistics	3		
MGT 601 Project Management	3						
MKT 301 Marketing Principles	3			BACHELOR DEGREE REQUIREMENTS		BA	BS
MKT 609 Strategic Electronic Marketing	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
ART 233 Computer-Assisted Graphic Design	3			EMPHASIS REQUIREMENTS		15	15
ART 240 Basic Design <i>should be elective taken in concentration and not counted in emphasis</i>	3			FREE ELECTIVES		1	11
ART 243 Graphic Design	3			UNIVERSITY DEGREE REQUIREMENTS		65	55
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3			TOTAL CREDIT HOURS		120	120
ART 244 Creative Photography or ART 475 Topics of Art: Photographic Vision	3						
ART 475 Topics of Art: Photographic Vision or COMM 129 Elements of Photography	3						
	3						
CSCI 461 Programming Languages	3						
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