



**FORT HAYS STATE UNIVERSITY**  
**DEPARTMENT OF INFORMATICS**

*Forward thinking. World ready.*

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**Degree Requirements for  
 Bachelors in Information Networking and Telecommunications**

<b>COMPUTER NETWORKING AND TELCOMMUNICATIONS CONCENTRATION</b>						
<b>INF MAJOR CORE (18 hours)</b>	Hr	Sm	Grd	<b>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:</b>		
INF 250 Introduction to Web Development (F, S, c) (F, S, U, vc)	3					
INF 300 Foundations of Informatics	3					
INF 405 Research Methods in Informatics	3					
INF 430 Technology Innovation and Entertpreneurial Leadership	3			INF 304 Management Information Systems	3	
INF 490 Capstone Seminar in Informatics	3			INF 394 Internetworking IV (CCNA Prep)	3	
INF 610 Public Policy, Ethics and Law in Information Networking	3			INF 472 Readings in Informatics(as approved by advisor)	3	
<b>CONCENTRATION REQUIREMENTS: COMPUTER NETWORKING &amp; TELECOMMUNICATIONS (15 hours)</b>	Hr	Sm	Grd	INF 473 Problems in Informatics (as approved by advisor)	3	
INF 291 Internetworking I (CCENT Prep)	3			INF 479 Internship in Informatics (encouraged, up to 6 hours)	3	
INF 292 Internetworking II (CCCENT Prep)	3			INF 603 Big Data Analytics	3	
INF 393 Internetworking III (CCNA Prep)	3			INF 650 Introduction to Human Computer Interaction	3	
INF 680 Network Architecture and Data Communications I	3			INF 651 Front-End Web Development I	3	
INF 681 Network Architecture and Data Communications II	3			INF 652 Database Design & Programming	3	
<b>CROSS CONCENTRATION ELECTIVE:        (Choose 2: No more than one from each concentration)</b>	Hr	Sm	Grd	INF 653 Back-End Web Development I	3	
<b>Cybersecurity</b>				INF 654 Mobile Web-Development I	3	
INF 360 Programming with Python	3			INF 658 Law of Cyberspace	3	
INF 685 Fundamentals of Network Security	3			INF 660 Global Telecom	3	
INF 671 Linux in Networking	3			INF 662 Modern Telephony	3	
<b>Digital Media Production &amp; Journalism</b>				INF 664 Wireless and Cellular Systems (CWNA Prep)	3	
INF 140 Introduction to Electronic Media	3			INF 671 Linux for Networks	3	
INF 346 Beginning Video Production	3			INF 672 Advanced Linux in Networking	3	
INF 348 Beginning Audio Production	3			INF 678 Seminar in Informatics/Virtualized Infrastruture	3	
INF 420 Social Issues and Information Networking	3			INF 684 Foundations of Information Systems Security	3	
<b>Information Systems</b>				INF 685 Fundamentals of Network Security (MCNS, CSPFA)	3	
INF 304 Management Information Systems	3			INF 695 Advanced Routing (CCNP Prep 1)	3	
INF 402 Windows Server Administration	3			INF 697 Advanced LAN Switching (CCNP Prep 3)	3	
<b>Web and Mobile Application Development</b>				INF 698 Internetwork Troubleshooting (CCNP Prep 4)	3	
INF 650 Introducton to Human-Computer Interaction	3			MGT 601 Project Management	3	
INF 651 Front-End Web Development	3			MIS 602 Information Systems Design and Development	3	
INF 652 Database Design and Programming	3					
<b>CORE/CROSS CONCENTRATION TOTAL</b>	<b>39</b>			<i>Additional follow on page 2</i>		



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**COMPUTER NETWORKING & TELECOMMUNICATIONS CONCENTRATION continued**

	Hr	Sm	Grd	REQUIRED GENERAL EDUCATION CLASSES	Hr	Sm	Grd
CSCI 262 Computer Science II	3			COMM 318 Intro to Organizational Communication	3		
CSCI 369 Java Programming	3			MATH 110 College Algebra (or higher)	3		
GSCI 240 Introduction to Geographic Information Systems	3			MATH 250 Elements of Statistics	3		
GSCI 290 Cartograohy: Theory and Applications	3						
GSCI 360 Intermediate Geographic Information Systems	3						
GSCI 425 Advanced Geographic Information Systems	3			<b>BACHELOR DEGREE REQUIREMENTS</b>		<b>BA</b>	<b>BS</b>
GSCI 474 Aerial Photographs and Remote Sensing	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
CSCI 261 Computer Science I (F, c)	3			EMPHASIS REQUIREMENTS/FREE ELECTIVE		20	30
				UNIVERSITY DEGREE REQUIREMENTS		65	55
<b>TOTAL MAJOR &amp; EMPHASIS REQUIREMENTS</b>	<b>54</b>			<b>TOTAL CREDIT HOURS</b>		<b>124</b>	<b>124</b>

Notes: