



# FORT HAYS STATE UNIVERSITY

## DEPARTMENT OF INFORMATICS

*Forward thinking. World ready.*

Phone: (785) 628-5373

Website: [www.fhsu.edu/informatics](http://www.fhsu.edu/informatics)

Email: [informatics@fhsu.edu](mailto:informatics@fhsu.edu)

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

<b>CYBERSECURITY 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	3					
INF 300 Foundations of Informatics	3				Hr	Sm
INF 405 Research Methods in Informatics	3			INF 393 Internetworking III (CCNA Prep)	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 IIII	3	
INF 610 Public Policy, Ethics and Law in Information Networking	3			INF 472 Readings in Informatics(as approved by advisor)	3	
				INF 473 Problems in Informatics (as approved by advisor)	3	
<b>CONCENTRATION REQUIREMENTS: CYBER SECURITY (15 hours)</b>	Hr	Sm	Grd	INF 479 Internship in Informatics (encouraged, up to 6 hours)	3	
				INF 603 Big Data Analytics	3	
INF 291 Internetworking I	3			INF 650 Introduction to Human Computer Interaction	3	
INF 360 Programming with Python	3			INF 651 Front-End Web Development I	3	
INF 671 Linux in Networking	3			INF 652 Database Design & Programming	3	
INF 686 Network Security Firewalls	3			INF 653 Back-End Web Development I	3	
INF 322 Topics in Informatics: Cyber Operations	3			INF 654 Mobile Web-Development I	3	
				INF 658 Law of Cyberspace	3	
<b>CROSS CONCENTRATION ELECTIVE: (Choose 2: No more than one from each concentration)</b>	Hr	Sm	Grd	INF 660 Global Telecom	3	
<b>Computer Networking &amp; Telecommunications</b>				INF 662 Modern Telephony	3	
INF 292 Internetworking II	3			INF 664 Wireless and Cellular Systems (CWNA Prep)	3	
INF 680 Network Architecture & Data Communications I	3			INF 671 Linux in Networking	3	
INF 684 Foundations of Information Systems Security	3			INF 672 Advanced Linux in Networking	3	
<b>Digital Media Production &amp; Journalism</b>				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 302 Windows Client Administration	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 &amp; Mobile Application Development</b>				INF 698 Internetwork Troubleshooting	3	
INF 652 Database Design & Programming	3			MIS 602 Information Systems Design and Development	3	
<b>CORE/CROSS CONCENTRATION TOTAL</b>	<b>39</b>			<i>Additional follow on page 2</i>		



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

*Forward thinking. World ready.*

**CYBERSECURITY CONCENTRATION continued**

	Hr	Sm	Grd		Hr	Sm	Grd
				<b>REQUIRED COGNATE COURSES</b>			
CSCI 221 Computer Science II	3			COMM 318 Intro to Organizational Communication	3		
MGT 601 Project Management	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			<b>BACHELOR DEGREE REQUIREMENTS</b>		<b>BA</b>	<b>BS</b>
GSCI 425 Advanced Geographic Information Systems	3			CORE/CROSS CONCENTRATION REQUIREMENTS		39	39
GSCI 474 Aerial Photographs and Remote Sensing	3			EMPHASIS REQUIREMENTS		15	15
CSCI 121 Computer Science I (F, c)	3			FREE ELECTIVE		1	11
				UNIVERSITY DEGREE REQUIREMENTS		65	55
<b>TOTAL MAJOR &amp; EMPHASIS REQUIREMENTS</b>	54			<b>TOTAL CREDIT HOURS</b>		<b>120</b>	<b>120</b>

Notes: