INFORMATICS | BACHELOR OF SCIENCE IN INFORMATION NETWORKING AND TELECOMMUNICATIONS (INFORMATION SYSTEMS)

Program Summary

Code	Title	Hours
General Education		34
INT Core		18
Concentration Core & Electives		36
Open Electives [1]		32
Total Hours		**120**

[1] Open electives are the credit hours required to reach a minimum of 120 total hours and 45 upper division hours. The number listed assumes all courses are completed at FHSU as listed. This number may vary if students transfer courses, or have individual substitutions allowed. Students should speak with their advisor if either situation applies to determine if the number will vary, and to ensure they enroll in a minimum of 45 upper division hours.
Students entering within 1 year of high school graduation will take UNIV 101 Freshman Seminar and may apply that hour in the open elective category.

Program Requirements

General Education

All undergraduate degrees require completion of the Kansas Systemwide General Education (https://catalog.fhsu.edu/general-education/).

Courses identified with GE on this page may satisfy a general education requirement in addition to the identified degree requirement. Students who apply a degree requirement to satisfy a general education requirement will typically add an equal number of hours to the university elective category. This flexibility may allow you to complete a minor or certificate within the 120 hour degree. Transfer students are especially encouraged to select these courses in completing General Education requirements to maximize the likelihood of completing the degree with 120 credit hours.

Code	Title	Hours
General Education		**34-35**

Effective in Fall 2025 the math pathway course (https://catalog.fhsu.edu/general-education/gateway-courses/) identified below is required for this degree.

Math Pathways Course: MATH 110 College Algebra

The General Education Math Pathways course identified for this major is **MATH 110 College Algebra** . All students pursuing this degree program will be required to complete this course. Students who place into a higher level math course may be able to satisfy this requirement; consult with your Academic Advisor for additional information.

Placement measures for **MATH 110 College Algebra** include:

- Math ACT: 19 or higher OR
- Math SAT: 510 or higher OR
- ALEKS PPL: 30 or higher OR
- Accuplacer QAS: 255 or higher OR
- HS GPA and Course Grade: 3.00 cumulative GPA (unweighted) and C- or higher in Second Semester Algebra 2 or Integrated Math 3 OR
- Institutional Measure

Corequisite support course for MATH 110 College Algebra: **MATH 105 College Algebra with Review** . Students who do not meet any of the placement measures listed above will need to register for the corequisite support course.

Code	Title	Hours
INT Core		
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 490	Capstone Seminar in Informatics	3
INF 610	Public Policy, Law, Ethics in Telecommunications	3
Total Hours		**18**

Concentration

Information Systems (Online & On Campus)

With a concentration in Information Systems, you will develop knowledge about information systems and how they relate to other informatics areas. This degree prepares you for technology-track careers.

Built on the concept of media convergence, our program teaches digital media and journalism, computer networking, web and mobile application development, and cybersecurity.

Our graduates work in business, government, education, entertainment, and health care organizations.

Code	Title	Hours
Concentration Requirements: Information Systems		
INF 302	Windows Client Administration	3
INF 304	Management Information Systems	3
INF 305	Windows Server Administration	3
INF 330	Business Intelligence	3
INF 360	Programming with Python	3
INF 604	Data Analytics I	3
MIS 602	Information Systems Design and Development	3
Emphasis Electives		
Select five of the following: [1]		15
CSCI 121	Computer Science I	
CSCI 221	Computer Science II	
GSCI 240	Geographic Information Systems (GIS) One	
GSCI 290	Cartography: Theory and Applications	
GSCI 360	Geographic Information Systems (GIS) Two	

INF 292	Internetworking II
INF 393	Internetworking III
INF 472	Readings in Informatics
INF 473	Problems in Informatics
INF 479	Internship in Informatics
INF 603	Big Data Analytics
INF 650	Introduction to Human-Computer Interaction
INF 651	Front End Web Development I
INF 652	Database Design and Programming
INF 653	Back-End Web Development I
INF 654	Mobile Web Development
INF 658	Law of Cyberspace
INF 660	Global Telecommunications Policy
INF 662	Modern Telephony
INF 664	Wireless and Cellular Systems
INF 671	Linux in Networking
INF 672	Advanced Linux in Networking
INF 678	Seminar in Informatics
INF 684	Foundations of Information Systems Security
INF 685	Fundamentals of Network Security
INF 695	Advanced Routing
INF 697	Advanced LAN Switching
MGT 601	Project/Program Management
MIS 602	Information Systems Design and Development
Total Hours	**36**

[1] Work with your advisor to choose five courses from the below list to meet your goals.

Degree Requirements

Code	Title	Hours
Bachelor of Arts Degree Language Requirement		
Two consecutive semesters of a non-English Language		
All bachelor degrees require:		
GPA of 2.0 on FHSU courses & 2.0 on all coursework (Higher program requirements prevail over the 2.0 when set)		
A minimum of 30 hours earned from FHSU with a grade of D, C, B, or A		
Successful completion of an upper division Writing and Information Literacy course (Most majors contain a course designated)		
A minimum of 45 hours of recognized upper division credit		
A minimum of 120 hours of recognized college credit		

Degree Maps

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