

BHA-Information Systems

Fall 2024

Bachelor of Humanities and Arts (BHA)

Dietrich College (DC) Concentration in Information Systems

107 units (minimum)

Advisor: [Gary DiLisio](mailto:gdilisio@andrew.cmu.edu), HBH 3048, 412-268-9592, gdilisio@andrew.cmu.edu

Did you enjoy computer science or more technical courses in high school, but are mostly interested in the practical and social applications of technology? Do you have a passion for business and want to use advanced technology to change how companies work? Do you want to learn how data and technology can be harnessed for social good?

The BHA concentration in Information Systems combines aspects of computer science, information technology, and business management to provide you with an uncommonly well-rounded portfolio. You will be uniquely positioned for an impactful career in an increasingly digitized and connected world and able to adapt to rapid evolution across industries.

In addition to building a solid foundation in computing, communications, and software development, you will also study social sciences and organizational theory to develop "big picture" critical thinking and understand the human impacts of technological change. This blend prepares you to take a leading role in our digital future.

BHA students take at least 9 courses in their DC concentration, for a minimum of 81 units. A completed DC Concentration Declaration Sheet must be approved by the concentration advisor and submitted to the BXA office by spring mid-semester break of the student's sophomore year. BHA students who are admitted through internal transfer must have chosen a DC concentration at the time of their application, which serves as declaration.

Students must earn a final grade of "C" or better for these courses to count toward the concentration.

Technical Core

(3 courses, 31 units minimum)

Information Systems requires completion of prerequisite courses in mathematics and computer science. All prerequisites must be successfully completed prior to the start of fall semester, junior year. Two Technical Core courses may double-count in the BHA General Education Math, Science, and Computation category.

15-112	Fundamentals of Programming and Computer Science	12
15-121	Introduction to Data Structures	10
or 15-122	Principles of Imperative Computation	

Choose one:

21-112	Calculus II	10
21-120	Differential and Integral Calculus	10
21-127	Concepts of Mathematics	12
21-240	Matrix Algebra and Applications	10
80-210	Logic and Proofs	9

Information Systems Professional Core

(8 courses, 76 units)

67-200	Information Systems Research Colloquium (Fall)	1
67-250	The Information Systems Milieux (Spring)	9
67-262	Database Design and Development (Fall)	9
67-272	Application Design and Development (Spring)	12
67-373	Information Systems Consulting Project (Spring)	12
05-391	Designing Human Centered Software	12
or 05-410	User-Centered Research and Evaluation	
or 05-452	Service Design	
17-313	Foundations of Software Engineering	12
95-422	Managing Digital Transformation	9