

Information Systems (BHA Concentration)

Gary DiLisio, BHA IS Concentration Advisor (HBH 3048)

BHA Information Systems Concentration

(107 units minimum)

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.

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.

		Units
15-112	Fundamentals of Programming and Computer Science	12
or 02-120	Programming for Scientists	
15-121	Introduction to Data Structures	10
or 15-122	Principles of Imperative Computation	

Choose one:

21-112	Integral Calculus	10
21-120	Differential and Integral Calculus (prerequisite: 21-090)	10
21-127	Concepts of Mathematics	12
21-240	Matrix Algebra with 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