

Suggested Four-Year Plan of Study COMPUTER SCIENCE



B.S. Computer Information Systems (Cybersecurity)

FRESHMAN YEAR

Fall Semester		16 Credits
FYE 1021	FYE Seminar in Computer Science (R, IL).....	3
ENGL 1100	Writing 1 (W).....	3
MATH 1300	Precalculus^(QR)	4
CSC 1400	Computer Information Systems.....	3
SPCH xxxx	WS elective	3

^ The AAF placement test score > 242 is required

Spring Semester		15 Credits
MATH 2800	Statistical Analysis	3
ENGL 1200	Writing II (W, IL).....	3
CSC/MATH 1900	Discrete Mathematics (PL).....	3
CSC 1500	Computer Science I.....	3
ECON 1200	Microeconomics.....	3

JUNIOR YEAR

Fall Semester		15 Credits
CSC 3400	Data Communications.....	3
CSC 3040	Cybersecurity Management	3
	IS Environment-2*.....	3
	DP elective	3
	CV elective	3

Spring Semester		15 Credits
CSC 3011	Data Modeling and DB design.....	3
CSC 3450	Local Area Networks	3
	IS Environment-3*	3
CSC 4005	Ethical Hacking.....	3
	AIA elective.....	3

General Education: Foundation

3 credits Reading and Information Literacy (R and IL): First Year Experience
3 credits Writing (W): Writing I
3 credits Writing and Information Literacy (W and IL): Writing II
3 credits Quantitative Reasoning (QR) (MATH)
3 credits World Languages, Speaking and Listening (WS)

General Education: Exploration

3 credits Civic Learning (CV)
3 credits Diverse Perspectives (DP)
3 credits Ethical Reasoning (ER)
3 credits Fine Arts Expression and Analysis (FA)
3 credits Historical Inquiry and Analysis (HI)
3 credits Literary Inquiry and Analysis (LI)
3 credits Personal Wellness (PW)
3 credits Procedural and Logical Thinking (PL)
3 credits Scientific Inquiry and Analysis (SI)

General Education: Integration

9 credits AIA (3 of which must be Integrative High Impact Practice - IHIP)
OR
Minor (professional majors completing a minor or second major must include at least 9 credits in LA&S disciplines for that minor)

General Education: MAJ

There may be major courses that have been approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by major and concentration.

SOPHMORE YEAR

Fall Semester		16 Credits
CSC 1550	Computer Science II	3
BSAD 2010	Intro to Financial reporting.....	3
ENGL xxxx	LI elective	3
EXSS xxxx	PW elective.....	3
LAB	SI elective	4

Spring Semester		15 Credits
CSC 2560	Systems Programming.....	3
BSAD 2030	Principles of Management	3
	IS Environment-1*.....	3
	FA Elective.....	3
HIST xxxx	HI elective.....	3

* IS environment courses are specific to the track you choose. See back of this page.

SENIOR YEAR

Fall Semester		15 Credits
CSC 3710	Systems Analysis Methods	3
	IS Environment-4*	3
CSC 4100	Ethics and Impacts in CS (ER).....	3
CSC 4350	Network Security	3
	AIA elective.....	3

Spring Semester		13 Credits
CSC 4700	Systems Design & Implementation (IHIP).....	3
	IS Environment-5*	3
	Free elective	3
	Free elective	4

* IS environment courses are specific to the track you choose. See back of this page.

Suggested 4-year plan of study. Completion of 120 credits required for graduation.

B.S. Computer Information Systems Tracks

All CIS majors must select one of the tracks below and complete the courses listed under that track as IS Environment courses

Business Information Systems (BIS) track (15 cr.)

- CSC 2700 - Business Programming 3 cr.
- ECON 1100 - Principles of Economics: Macroeconomics 3 cr.
- BSAD 2020 - Introduction to Managerial Accounting 3 cr.
- BSAD 2040 - Fundamentals of Marketing 3 cr.
- BSAD 3400 - Basic Finance 3 cr.

Management Information Systems (MIS) track (15 cr.)

- BSAD 3210 - Human Resources Management 3 cr.
- BSAD 3220 - Production Management 3 cr.
- BSAD 4200 - Organizational Behavior and Theory 3 cr.
- BSAD 4230 - Business Fluctuations and Forecasting 3 cr.
- BSAD 4880 - International Business Management 3 cr.

Accounting Information Systems (AIS) track (15 cr.)

- BSAD 2020 - Introduction to Managerial Accounting 3 cr.
- BSAD 3010 - Financial Reporting Theory and Practice I 3 cr.
- BSAD 3020 - Financial Reporting Theory and Practice II 3 cr.
- BSAD 4010 - Financial Reporting Theory and Practice III
- BSAD 4140 - Auditing 3 cr.

Marketing Information Systems (MkIS) track (15 cr.)

- BSAD 2040 - Fundamentals of Marketing 3 cr.
- BSAD 3310 - Consumer Behavior 3 cr.
- BSAD 3320 - Market Research 3 cr.
- BSAD 3330 - Advertising 3 cr.
- BSAD 4340 - Developing Marketing Strategies 3 cr.

Bio Info Systems (BioIS) track (15 or 16 cr.)

- BIOL 1800 - General Biology I 4 cr.
- BIOL 1900 - General Biology II 4 cr.
- BIOL 2800 - Genetics 4 cr.
- One biology elective at or above 2000 level

Geoinformatics (GeoIS) track (15 cr.)

- GEOG 2400 - Introduction to Geospatial Technologies 3 cr.
- GEOG 3120 - Computer Cartography 3 cr.
- GEOG 3300 - Urban Geography 3 cr.
- GEOG 4001 - Web GIS 3 cr.
- GEOG 4000 - Geographic Information System 3 cr. or
- GEOG 4003 - Geographic Information Systems II 3 cr.