

MAJOR REQUIREMENTS [62 Credits]

Core Requirements [26 Credits]

- ISCS140 Programming Foundations I
- CS185 Programming Foundations II
- ISCS150 Website Design & Construction or INCS160 Microcomputer Systems
- CS215 Operating System Administration or CS265 Computer Architecture
- CS280 Data Structures & Algorithms
- One course from the following: CS205 Visual Programming, CS225 C++ Programming, CS230 Procedural Programming, or CS310 Systems Programming: C and Assembler
- CS293/CS493 Supervised Field Experience (2 credits)

Cognate Requirements [8 Credits]

- MATH135 Discrete Mathematics for CS (Mathematics majors may have MATH225 and either MATH141 or MATH241 substituted for this requirement)
- MATH151 Calculus I, MGT101 Intro to Management, or INPHYS241 University Physics I
- Also recommended: MATH152 Calculus II

Specialization Electives [Minimum 28 Credits]

CS310 Sys. Programming: C & Assembler	CS460 Data Warehousing & Advanced SQL
CS320 Operating Systems Design **	CS490 Advanced Special Topics
CS340 Internet Programming **	CS495 Artificial Intelligence & Robotics
ISCS350 Sys. Analysis & Proj. Mgt.	CS496 Games Programming
CS355 Computer Networks **	CS498 Independent Study
CS360 Database Systems **	MATH152 Calculus II
CS375 Software Engineering **	MATH231 Linear Algebra & Diff. Equations
CS395 Mobile Computing	MATH225 Intro to Abstr./Discrete Maths.
CS410 Advanced Software Development	MATH241 Probability & Statistics
CS420 E-Commerce Development	MATH362 Math Modeling & Computing
CS430 Prin. of Programming Languages	MGT301 Org. Theory & Behavior
CS440 Software Engineering Project	PHYS242 University Physics II
CS455 Cryptography & Network Security	

** Highly recommended 300-level courses

INTEGRATIVE STUDIES PROGRAM REQUIREMENTS [40 Credits]

Foundations [8 Credits]

- ITW: Thinking & Writing
- IQL: Quantitative Literacy:
(May be fulfilled by one of the following: IQLxxx, MATH120, MATH141, MATH172, MATH175, MGT202)

Perspectives [32 Credits, 8 of which must be at the 300/400 level]

- IA: Arts** — IAART, IAENG, IAFILM, IAMU, IATAD.
Selection:
- IH: Humanities** — IHAMST, IHCOMM, IHENG, IHFILM, IHFR, IHGER, IHHIST, IHHGS, IHJRN, IHPHIL, IHSP, IHWGS. Selection:
- IA/IH:** One additional course in either IA or IH not used above.
Selection:
- IN: Natural Sciences** — INASTR, INBIO, INCHEM, INCS, INENST, INHLSC, INGEOL, INMET, INPHYS, INSAFE. Selection:
- IS: Social Sciences** — ISANTH, ISCS, ISECON, ISGEOG, ISPOSC, ISPSYC, ISSOC.
Selection:
- IN/IS:** One additional course in either IN or IS not used above.
Selection:
- II: Interdisciplinary** — One II-prefixed course.
Selection:
- One additional ISP course** in any discipline not used above.
Selection:

GENERAL ELECTIVES [18 Credits]

Elective:	Elective:
Elective:	Elective:
Elective:	Elective:

MAJOR REQUIREMENTS SPECIALIZATION OUTLINES

- General CS Specialization [28 Credits]:** Choose any seven (7) of the general CS elective courses (300 and 400 level) with a minimum of three (3) 400-level course
- Information Systems Specialization [28 Credits]:** Choose CS360 and any six (6) of the following courses with a minimum of three (3) 400-level courses: CS320, CS340**, ISCS350, CS355, CS360**, CS375**, CS395, CS420**, CS430, CS440, CS460, CS495, MGT301**
- Software Engineering Specialization [28 Credits]:** Choose CS360, CS375, CS440, and any four (4) of the following courses with an overall minimum of three (3) 400-level courses: CS320**, CS340**, ISCS350, CS355**, CS360**, CS375**, CS395, CS410, CS420, CS430, CS440 **, CS455, CS460, CS495, CS496
- System & Networking Specialization [28 Credits]:** Choose CS320, CS355, CS455, and any four (4) of the following courses with a minimum of three (3) 400-level courses: CS310, CS320**, CS340, ISCS350, CS355**, CS360**, CS375**, CS395, CS410, CS420, CS440, CS455**, CS460, CS495, CS496, and PHYS242
- Computational Mathematics Specialization [28 Credits]:** Choose any seven (7) of the following with a minimum of three (3) Mathematics courses and one (1) 400-level course: CS320**, CS340, CS355**, CS360**, CS375**, CS410, CS430, CS440, CS455, CS460, MATH152, MATH231, MATH225, MATH241, MATH362
- Web Development Specialization [28 Credits]:** Choose CS340, CS410/CS420, and any five (5) of the following courses with a minimum of three (3) 400-level courses: CS320, CS340**, ISCS350, CS355, CS360**, CS375**, CS395, CS410, CS420**, CS440, CS455, CS460, CS496, MGT301**