

CORE CURRICULUM – 43-44 Semester Hours (SH)

UNIVERSITY CORE

A. Core Foundations

CORE 101	_____	3
CORE 102	_____	3
HNRS 103*	_____	3
CORE 201	_____	3
CORE 202	_____	3

NOTE: Courses listed in multiple areas can only be used to fulfill a single area requirement.

Students can use only one course with their major prefix to fulfill core requirements.

* Honors course – will meet CORE 101 & 102 for those students in the RU honors program

B. Core Skills & Knowledge

Courses must be from different disciplines:

MATHEMATICAL SCIENCES (3SH)
MATH 151 _____ 3

NATURAL SCIENCES (4 SH)
PHYS 221 _____ 4

HUMANITIES (3 SH)
_____ _____ 3

One of the following: CLSS 110 CCST 110 ENGL 200 HIST 101, 102 PHIL 111, 112, 114 POSC 110; RELN 111, 112, 203, 206

VISUAL & PERFORMING ARTS (3 SH)
_____ _____ 3

One of the following: ART 100, 215, 216 CVPA 266, DNCE 111 MUSC 100, 121, 123 THEA 100, 180

SOCIAL/BEHAV. SCIENCES (3 SH)
_____ _____ 3

One of the following: ANSC 101, APST 200 ECON 105, 106 GEOG 101, 102, 103 HIST 111, 112 POSC 120 PSYC 121 RELN 205 SOCY 110, 121

COLLEGE CORE

A. National & International Perspectives

Courses must be from different disciplines:

U. S. PERSPECTIVES (3 SH)
_____ _____ 3

One of the following: APST 200 ECON 101, 105, 106, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110

GLOBAL PERSPECTIVES (3SH)
_____ _____ 3

One of the following: CVPA 266, ENGL 201, FORL 103; GEOG 101, 102, 140, 280 HIST 101, 102 INST 101 ITEC 112 PEAC 200 RELN 112, 205, SOCY 121, THEA 180 WMST 101

B. Supporting Skills & Knowledge

NATURAL SCIENCES OR MATH (3/4 SH)
PHYS 222 _____ 3-4

HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)
_____ _____ 3-4

One of the following: CLSS 110 CCST 110 ENGL 200, HIST 101, 102 PHIL 111, 112, 114; POSC 110; RELN 111, 112, 203, 206 Or ART 111, 215, 216; CVPA 266; DNCE 111 MUSC 100, 121, 123 THEA 100, 180 Or CHNS 101: 102, 201: 202 ARAB 100,200,210 FORL 100, 109, 200, 209, 210 309, 409; FREN 100, 200, 210, 300, 320 GRMN 100, 200: 210, 300 LATN 101,102, 201, 350; RUSS 100, 200, 210, 300; SPAN 101: 102, 201, 202

SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS (3SH)
_____ _____ 3

One of the following: ANSC 101, APST 200 ECON 105, 106 GEOG 101, 102, 103 HIST 111, 112 POSC 120 PSYC 121 RELN 205 SOCY 110, 121 HLTH 111,200 NURS 111 NUTR 214 RCPT 200

B.S. Requirements 8 hrs.: Student concentrating in Computer Science must choose two courses from the following list:

ASTR 111:112; any Biology (except BIOL 301:302); any Chemistry; any Geology (except GEOL 110, 205); any Physics (except PHYS 111:112 and PHYS 221:222or PHYS 231); PHSC 301

Computer Science CONCENTRATION

(A grade of C or better must be received in all courses with the ITEC Prefix)

ITEC 110	_____ (3)	Principles of Information Technology	F/S
ITEC 120	_____ (4)	Principles of Computer Science I	F/S
ITEC 220	_____ (4)	Principles of Computer Science II	F/S
ITEC 225	_____ (3)	Web Programming I	F/S
ITEC 345	_____ (3)	Introduction to Information Security	F/S
ITEC 490	_____ (1)	IT Professionalism	F/S
ITEC 324	_____ (3)	Principles of Computer Science III	F/S
ITEC 122	_____ (3)	Discrete Mathematics	F/S
MATH 151	_____ (3)	Calculus & Analytical Geometry I	F/S
ITEC 320	_____ (3)	Procedural Analysis and Design	F/S
ITEC 352	_____ (3)	Computer Organization	F
ITEC 360	_____ (3)	Data Structures and Analysis of Algorithms	S
ITEC 370	_____ (3)	Software Engineering I	F/S
ITEC 371	_____ (3)	Operating Systems I	S
ITEC 380	_____ (3)	Organization of Programming Languages	F
ITEC 420	_____ (3)	Computability Theory & Formal Languages	F
MATH 152	_____ (3)	Calculus & Analytical Geometry II	F/S
MATH 251	_____ (3)	Calculus & Analytical Geometry III	F/S
STAT 301	_____ (3)	Probability and Statistics I	F/S
PHYS 221	_____ (4)	Physics	F
PHYS 222	_____ (4)	Physics	S
Any ONE of the following: _____ (3-4)			
ITEC 315	_____ (3)	GUI Design	F/S
ITEC 340	_____ (3)	Database I	F/S
ITEC 350	_____ (3)	Intro to Computer Networking	F/S
ITEC 410	_____ (3)	Modeling and Simulation	F/S
ITEC 430	_____ (3)	Computer Graphics	F/S
ITEC 460	_____ (3)	Translator Design & Construction	F/S
ITEC 480	_____ (3)	Artificial Intelligence	F/S

Prerequisites

"C" or better ITEC 120
"C" or better in either ITEC 109 or ITEC 120
"C" or better ITEC 120
Senior Standing (86 hours or more)
"C" or better in both ITEC 110/220
ITEC 120 ≥ "C" & MATH 125 or higher
Math SAT ≥ 550, or college pre-calc ≥ "C"
"C" or better in both ITEC 110 & 220
"C" or better in both ITEC 122 and ITEC 220
ITEC 122/324/320 & MATH 251 or 255
"C" or better in both ITEC 110 & 220
ITEC 352
ITEC 324, 320
ITEC 122
MATH 151 "C" or better
MATH 152
MATH 152 "C" or better
MATH 151
PHYS 221
"C" or better ITEC 225
"C" or better in both ITEC 110/220
"C" or better in both ITEC 110/220
ITEC 320 and STAT 301
Pre-req. or Co-req. ITEC 360
ITEC 352 and ITEC 380
ITEC 122 and ITEC 324

Each student majoring in the computer science concentration of the Computer Science and Technology degree must take the Graduate Record Achievement Test (GRE) or MFAT or an equivalent exam as determined by the department during her or his last semester.