

2018-2019 B.S Computer Science and Technology – Networks Concentration

NAME _____ ID# _____

CORE CURRICULUM – 43-44 Semester Hours (SH)

UNIVERSITY CORE

<u>A. Core Foundations</u>			<u>B. Core Skills & Knowledge</u>
CORE 101	_____	3	<u>MATHEMATICAL SCIENCES (3 SH)</u> MATH 171 _____ 3
CORE 102	_____	3	<u>NATURAL SCIENCES (4 SH)</u> _____ _____ _____ 4
HNRS 103	_____	3	One of the following: ASTR 111, 112 BIOL 103, 104, 105 CHEM 101: 102, 120 GEOL 100, 105: 106 PHYS 111: 112, 221: 222
CORE 201 PHIL 111: 213	_____	3	<u>HUMANITIES (3 SH)</u> _____ _____ _____ 3
CORE 202 PHIL 112	_____	3	One of the following: CLSS:110 CCST: 110 ENGL 200, HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206
			<u>VISUAL & PERFORMING ARTS (3 SH)</u> _____ _____ _____ 3
			One of the following: ART 100, 215, 216 CVPA 266 DNCE 111 MUSC 100, 121, 123 THEA 100, 180
			<u>SOCIAL/BEHAV. SCIENCES (3 SH)</u> _____ _____ _____ 3
			SOCY 110 or 121 recommended One of the following: ANSC 101, APST 200, ECON 205, 206, GEOG 101, 102, 103 HIST 111, 112 POSC 120 PSYC 121 RELN 205 SOCY 110, 121

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

Students can use two courses with their major prefix to fulfill core requirements.

COLLEGE CORE

<u>A. National & International Perspectives</u>		<u>B. Supporting Skills & Knowledge</u>
<u>A. National & International Perspectives</u> Courses must be from different disciplines:		<u>NATURAL SCIENCES OR MATH (4 SH)</u> (Must select a 4-credit lab science) _____ _____ _____ 4
<u>U. S. PERSPECTIVES (3 SH)</u> _____ _____ _____ 3		From one of the following: ASTR 111, 112 BIOL 103, 104, 105 CHEM 101: 102, 120 GEOL 100, 105:106 PHYS 111: 112, 221:222
One of the following: APST 200 ECON 101, 205, 206, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110		<u>HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)</u> _____ _____ _____ 3-4
<u>GLOBAL PERSPECTIVES (3SH)</u> _____ _____ _____ 3		One of the following: CLSS 110 CCST 110 ENGL 200 HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206; CVPA 266; Or ART 100, 215, 216 DNCE 111, MUSC 100, 121, 123 THEA 100, 180 Or CHNS 101: 102, 201: 202 ARAB 101, 102, 201, 202, FORL 100, 109, 200, 210, 209, 309, 409; FREN 100, 200:210, 300, 320 GRMN 100, 200: 210, 300 LATN 101 102, 201, 350; RUSS 101, 102, 200, 210, 300; SPAN 101: 102, 105 201, 202
One of the following: CVPA 266, ENGL 201, 202, CCST 103, FORL 103 GEOG 101, 102, 140, 280 HIST 101, 102 INST 101 ITEC 112 PEAC 200 RELN 112, 205, SOCY 121, THEA 180, WMST 200		<u>SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS (3SH)</u> _____ _____ _____ 3
		One of the following: ANSC 101, APST 200 ECON 205, 206 GEOG 101, 102, 103 HIST 111, 112 POSC 120 PSYC 121 RELN 205 SOCY 110, 121 HLTH 111,200, NUTR 214 RCPT 200

CSAT – Networks Conce Concentration

*** A grade of C or better is required for any course with an asterisk**

*ITEC 110 _____ (3)	Principles of Information Technology	F/S
*ITEC 120 _____ (4)	Principles of Computer Science I	F/S
ITEC 122 _____ (3)	Discrete Mathematics	F/S
*ITEC 220 _____ (4)	Principles of Computer Science II	F/S
*ITEC 225 _____ (3)	Web Programming I	F/S
ITEC 324 _____ (3)	Principles of Computer Science III	F/S
*ITEC 345 _____ (3)	Introduction to Information Security	F/S
ITEC 490 _____ (1)	IT Professionalism	F/S
MATH 171 or _____ (4)	Calculus & Analytical Geometry I	F/S
MATH 168 & _____ (3)	Calculus I with Integrated Precalculus I	F/S
MATH 169 _____ (3)	Calculus I with Integrated Precalculus II	F/S
STAT 200/301 _____ (3)	Statistics	F/S
ITEC 310 _____ (3)	Programming in C and Unix	F/S
ITEC 340 _____ (3)	Database I	F/S
ITEC 350 _____ (3)	Introduction to Computer Networking	F/S
ITEC 352 _____ (3)	Computer Organization	F
ITEC 371 _____ (3)	Operating Systems I	S
ITEC 451 _____ (3)	Network Design and Analysis	S
ITEC 452 _____ (3)	Distributed Computing	F
ITEC 455 _____ (3)	Applied Cryptography and Network Security S	F
ITEC _____ (3)		

Prerequisites

C" or better in ITEC 109 or Math SAT ≥ 550 or dept. test
"C" or better in ITEC 120 and MATH 125, 126, 138, 140 or 151
"C" or better in ITEC 120
"C" or better in ITEC 120
"C" or better in ITEC 220
"C" or better in ITEC 120
Senior Standing (86 hours or more)
Math 138, or college pre-calc ≥ "C" or dept. test
"C" or better in MATH 168
"C" or better in Math 152 or STAT 301
"C" or better in ITEC 220
"C" or better in ITEC 220
"C" or better in ITEC 220
ITEC 220 "C" or better & ITEC 122 Pre-req. or Co-req
ITEC 352
ITEC 122/350, MATH 152 & STAT 200/301
ITEC 310/350/371
ITEC 345/350/220 "C" or better

Technical Electives -Plus 3 Additional credit hours in 300 or 400 level ITEC course (except for ITEC 301, 304, 307, 381, 398, 493 or 498) or any 500/600 level ITEC course approved by the Department Chair.

B.S. Requirements 6-8 hrs: Any 200, 300 level or 400 level ITEC course (except ITEC 281, ITEC 301, 304, 307, 381, 398, 495, 496, 497, and 498); any 500 or 600-level ITEC course approved by the Department Chair; any 200 level or above Math course; ASTR 111, ASTR 112, any Biology (except BIOL 301 and 302); any Chemistry; any Geology, GEOS 250 or ITEC 250, any Physics, or PHSC 301.