

2019-2020 B.S Computer Science and Technology Networks Concentration

<u>UNIVERSITY CORE</u>		<u>COLLEGE CORE</u>	
<u>A. Core Foundations</u>	<u>B. Core Skills & Knowledge</u>	<u>A. National & International Perspectives</u>	<u>B. Supporting Skills & Knowledge</u>
<p>CORE 101 _____ 3</p> <p>CORE 102 _____ 3</p> <p>HNRS 103* _____ 3</p> <p>CORE 201 _____ 3 PHIL 111: 213</p> <p>CORE 202 _____ 3 PHIL 112</p>	<p><u>MATHEMATICAL SCIENCES (3 SH)</u> MATH 171 _____ 3</p> <p><u>NATURAL SCIENCES (4 SH)</u> One of the following: ASTR 111, 112 BIOL 103, 104, 105 CHEM 111: 112, 120 GEOL 100, 105: 106 PHYS 111: 112, 221: 222</p> <p><u>HUMANITIES (3 SH)</u> One of the following: CLSS:110 CCST: 110 ENGL 200, HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206</p> <p><u>VISUAL & PERFORMING ARTS (3 SH)</u> One of the following: ART 100, 215, 216 CVPA 266 DNCE 111 MUSC 100, 121, 123 THEA 100, 180</p> <p><u>SOCIAL/BEHAV. SCIENCES (3 SH)</u> 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</p>	<p><u>U. S. PERSPECTIVES (3 SH)</u> One of the following: APST 200 ECON 101, 205, 206, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110</p> <p><u>GLOBAL PERSPECTIVES (3SH)</u> 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</p>	<p><u>NATURAL SCIENCES OR MATH (4 SH)</u> (Must select a 4-credit lab science) From one of the following: ASTR 111, 112 BIOL 103, 104, 105 CHEM 111: 112, 120 GEOL 100, 105:106 PHYS 111: 112, 221:222</p> <p><u>HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)</u> 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</p> <p><u>SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS (3SH)</u> 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</p>
<p>NOTE: Courses listed in multiple areas can only be used to fulfill a single area requirement.</p> <p>Students can use two courses with their major prefix to fulfill core requirements.</p>			

Networks Concentration

Course	Credits	Description	Term	Prerequisites
*ITEC 110	_____ (3)	Principles of Information Technology	F/S	
*ITEC 120	_____ (4)	Principles of Computer Science I	F/S	"C" or better in MATH 125 or MATH 138; or credit for MATH 126, MATH 168, or MATH 171; or permission of instructor
ITEC 122	_____ (3)	Discrete Mathematics	F/S	"C" or better in ITEC 120 and Math 171/169 OR 151
*ITEC 220	_____ (4)	Principles of Computer Science II	F/S	"C" or better in ITEC 120
*ITEC 225	_____ (3)	Web Programming I	F/S	"C" or better in ITEC 120
ITEC 324	_____ (3)	Principles of Computer Science III	F/S	"C" or better in ITEC 220
*ITEC 345	_____ (3)	Introduction to Information Security	F/S	"C" or better in ITEC 120
ITEC 490	_____ (1)	IT Professionalism	F/S	Senior Standing (86 hours or more)
MATH 171 or _____	(4)	Calculus & Analytical Geometry I	F/S	Math 138, or college pre-calc ≥ "C" or dept. test
MATH 168 & _____	(3)	Calculus I with Integrated Precalculus I	F/S	
MATH 169 _____	(3)	Calculus I with Integrated Precalculus II	F/S	"C" or better in MATH 168
STAT 200 or 301 _____	(3)	Statistics	F/S	
ITEC 310 _____	(3)	Programming in C and Unix	F/S	"C" or better in ITEC 220
ITEC 340 _____	(3)	Database I	F/S	"C" or better in ITEC 220
ITEC 350 _____	(3)	Introduction to Computer Networking	F/S	"C" or better in ITEC 220
ITEC 352 _____	(3)	Computer Organization	F	ITEC 220 "C" or better & ITEC 122 Pre-req. or Co-req
ITEC 371 _____	(3)	Operating Systems I	S	ITEC 352
ITEC 451 _____	(3)	Network Design and Analysis	S	ITEC 122/350, STAT 200/301, MATH 169/171
ITEC 452 _____	(3)	Distributed Computing	F	ITEC 310/350/371
ITEC 455 _____	(3)	Applied Cryptography and Network Security S	F	ITEC 345, and either ITEC 350 or both ITEC 205 and ITEC 315
TEC 3-400 _____	(3)	any 300 or 400-level ITEC courses	F/S	

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.