

**2019-2020 B.S. Computer Science and Technology
Software Engineering Concentration**

UNIVERSITY CORE

COLLEGE CORE

A. Core Foundations

B. Core Skills & Knowledge

A. National & International Perspectives

B. Supporting Skills & Knowledge

CORE 101	_____	3	MATHEMATICAL SCIENCES (3 SH) MATH 171	3
CORE 102	_____	3	HUMANITIES (3 SH)	
HNRS 103*	_____	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	
CORE 201 PHIL 111: 213	_____	3		
CORE 202 PHIL 112	_____	3	VISUAL & PERFORMING ARTS (3 SH) One of the following: ART 100, 215, 216 CVPA 266 DNCE 111 MUSC 100, 121, 123 THEA 100, 180	

U. S. PERSPECTIVES (3 SH)
One of the following: **APST 200 ECON 101, 205, 206, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110**

GLOBAL PERSPECTIVES (3 SH)
One of the following: **CVPA 266, ENGL 201; CCST 103; GEOG 101, 102, 140, 280 HIST 101, 102 INST 101 ITEC 112 PEAC 200 RELN 112, 205, SOCY 121, THEA 180 WMST 200**

NATURAL SCIENCES OR MATH (4 SH)
One of the following: **ASTR 111, 112 BIOL 103, 104, 105 CHEM 111: 112, 120 GEOL 100, 105:106 PHYS 111: 112, 221:222**

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

SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS
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**

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.

SOCIAL/BEHAV. SCIENCES (3 SH)
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**

Software Engineering Concentration

				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 125, 126, 138, 140 or 171
*ITEC	220	_____ (4)	Principles of Computer Science II	F/S	"C" or better 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	_____ (4)	Calculus & Analytical Geometry I	F/S	"C" or better in MATH 138, or dept. test
ITEC	320	_____ (3)	Procedural Analysis and Design	F/S	"C" or better in ITEC 220
ITEC	335	_____ (3)	Software Testing	S	'C" or better in ITEC 220 and 225
ITEC	370	_____ (3)	Software Engineering I	F/S	"C" or better in ITEC 220
ITEC	380	_____ (3)	Organization of Programming Languages	F	ITEC 324, ITEC 320
ITEC	471	_____ (3)	Software Engineering II	F	ITEC 320 324, 335 & 370
ITEC	472	_____ (3)	Software Engineering III	S	ITEC 471

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

Technical Electives Plus 9 additional credits from any 300 or 400 level ITEC course (except for ITEC 301, 304, 307, 369, 381, 395, 398, 466, 493, 495, 496, 497, 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; MATH 172; 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.