

**2018-2019 B.S. Computer Science and Technology – Software Engineering Concentration
CORE CURRICULUM – 43-44 Semester Hours (SH)**

UNIVERSITY CORE

COLLEGE CORE

A. Core Foundations

CORE 101	_____	3
CORE 102	_____	3
HNRS 103	_____	3
CORE 201 PHIL 111: 213	_____	3
CORE 202 PHIL 112	_____	3

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

B. Core Skills & Knowledge

<u>MATHEMATICAL SCIENCES (3 SH)</u>	3
MATH 171	_____
<u>HUMANITIES (3 SH)</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	_____
<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	_____

A. National & International Perspectives

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

B. Supporting Skills & Knowledge

<u>NATURAL SCIENCES OR MATH (4 SH)</u>	4
(Must select a 4-credit lab science)	_____
One of the following: ASTR 111, 112 BIOL 103, 104, 105 CHEM 101: 102, 120 GEOL 100, 105:106 PHYS 111: 112, 221:222	_____
<u>HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)</u>	3-4
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	_____
<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 – Software Engineering 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	_____ (4)	Calculus & Analytical Geometry I	F/S
ITEC 320	_____ (3)	Procedural Analysis and Design	F/S
ITEC 335	_____ (3)	Software Testing	S
ITEC 370	_____ (3)	Software Engineering I	F/S
ITEC 380	_____ (3)	Organization of Programming Languages	F
ITEC 471	_____ (3)	Software Engineering II	F
ITEC 472	_____ (3)	Software Engineering III	S

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 171
"C" or better 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)
"C" or better in MATH 138, or dept. test
"C" or better in ITEC 220
'C" or better in ITEC 220 and 225
"C" or better in ITEC 220
ITEC 324, ITEC 320
ITEC 320 324, 335 & 370
ITEC 471

ITEC _____ (), ITEC _____ (), ITEC _____ ()

Technical Electives -Plus 9 Additional credit hours in 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.