

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

UNIVERSITY CORE

A. Core Foundations

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

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.

B. Core Skills & Knowledge

MATHEMATICAL SCIENCES (3 SH) MATH 171	3
NATURAL SCIENCES (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 (3 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	
VISUAL & PERFORMING ARTS (3 SH) One of the following: ART 100, 215, 216 CVPA 266 DNCE 111 MUSC 100, 121, 123 THEA 100, 180	
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	

COLLEGE CORE

B. Supporting Skills & Knowledge

A. National & International Perspectives

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 (3SH) 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

NATURAL SCIENCES OR MATH (4 SH)

(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

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 (3SH)

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

Database Concentration

*ITEC 110	_____ (3)	Principles of Information Technology
*ITEC 120	_____ (4)	Principles of Computer Science I
*ITEC 220	_____ (4)	Principles of Computer Science II
*ITEC 225	_____ (3)	Web Programming I
*ITEC 345	_____ (3)	Introduction to Information Security
ITEC 490	_____ (1)	IT Professionalism
MATH 171 or	_____ (4)	Calculus & Analytical Geometry I
MATH 168 AND	_____ (3)	Calculus I with Integrated Precalculus I
MATH 169	_____ (3)	Calculus I with Integrated Precalculus II
STAT 200/301	_____ (3)	Statistics
ITEC 122	_____ (3)	Discrete Mathematics
ITEC 324	_____ (3)	Principles of Computer Science III
ITEC 320	_____ (3)	Procedural Analysis and Design
ITEC 325	_____ (3)	Web Programming II
ITEC 340	_____ (3)	Database I
ITEC 441	_____ (3)	Database II
ITEC 442	_____ (3)	Data Warehousing, Mining, & Reporting
ITEC 445	_____ (3)	Computer System and Database Security

Term

Prerequisites

F/S	
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.
F/S	"C" or better ITEC 120
F/S	"C" or better ITEC 120
F/S	"C" or better ITEC 120
F/S	Senior Standing (86 hours or more)
F/S	"C" or better in MATH 138, > "C" or dept. test
F/S	"C" or better in MATH 168
F/S	"C" or better in MATH 172 for STAT 301
F/S	"C" or better in ITEC 120 and Math 171/169 OR 151
F/S	"C" or better in ITEC 220
F/S	"C" or better in ITEC 220
F/S	"C" or better in ITEC 225 and ITEC 340
F/S	"C" or better in ITEC 220
F	ITEC 340 "C" or better
S	ITEC 340 "C" or better
F	ITEC 220 ≥ "C", ITEC 345 and ITEC 340

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

Technical Electives - 9 Additional credit hours in 300 or 400 level ITEC course (except ITEC 301, 304, 307, 369, 381, 395, 398, 466, 493, 495, 496, 497, and 498) or any 500 or 600 level 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, 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.