

# 2019-2020 B. S. in Cybersecurity

## A. Core Foundations

<b>CORE 101</b>	_____	<b>3</b>
<b>CORE 102</b>	_____	<b>3</b>
<b>HNRS 103*</b>	_____	<b>3</b>
<b>CORE 201 PHIL 111: 213</b>	_____	<b>3</b>
<b>CORE 202 PHIL 112</b>	_____	<b>3</b>

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.

\*Honors College course

## B. Core Skills & Knowledge

### MATHEMATICAL SCIENCES

**MATH 171** **3**

### NATURAL SCIENCES

One of the following: **ASTR** 111 or 112 or **BIOL** 103 or 104 or 105 or **CHEM** 111 or 112 or 120 or **GEOL** 100 or 105 or 106 or **PHYS** 111 or 112 or 221 or 222

### HUMANITIES

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

One of the following: **ART** 100, 215, 216 **CVPA** 266 **DNCE** 111 **MUSC** 100, 121, 123 **THEA** 100, 180

### SOCIAL/BEHAV. SCIENCES

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. S. PERSPECTIVES

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

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

## B. Supporting Skills & Knowledge

### NATURAL SCIENCES OR MATH

One of the following: **ASTR** 111 or 112 or **BIOL** 103 or 104 or 105 or **CHEM** 111 or 112 or 120 or **GEOL** 100 or 105 or 106 or **PHYS** 111 or 112 or 221 or 222

### HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES

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

## Cyber Security Major

				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 Math 125/138 or credit for Math 126;168/171
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 ITEC 120
ITEC	310	_____ (3)	Programming in C and Unix	F/S	ITEC 220 with a grade of "C" or better.
ITEC	345	_____ (3)	Intro to Information Security	F/S	"C" or better ITEC 120
ITEC	490	_____ (1)	IT Professionalism	F/S	Senior Standing (86 hours or more)
ITEC	350	_____ (3)	Introduction to Computer networking	F/S	ITEC 220 with a grade of "C" or better.
MATH	171	_____ (4)	Calculus & Analytical Geometry I	F/S	"C" or better in MATH 138, or college pre-calc $\geq$ "C" or dept. test
or					
MATH	168 AND	_____ (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
ITEC	340	_____ (3)	Database I	F/S	ITEC 220 with a grade of "C" or better
ITEC	352	_____ (3)	Computer Organization	F	"C" or better in ITEC 220 & Pre- or Co-req ITEC 122
ITEC	445	_____ (3)	Computer system and Database Security	S	ITEC 345, & ITEC 340 or both ITEC 304 & ITEC 315
ITEC	455	_____ (3)	Applied Cryptography and Network Security	F/S	ITEC 342, & TEC 350 or both ITEC 205 & ITEC 315
ITEC	371	_____ (3)	Operating Systems I	S	ITEC 352
ITEC	465	_____ (3)	C S Security Analysis & Investigation Tech	F	ITEC 352, ITEC 445; pre- or co-requisites ITEC 371
ITEC	466	_____ (3)	Information Assurance Management	F	ITEC 345
ITEC	475	_____ (3)	Security of Cyber-Physical Systems	F	ITEC 345
BLAW	203	_____ (3)	Legal Environment of Business		
CRJU	412	_____ (3)	Security Admin. And Crime Prevention		Student should see department chair for special waiver to take CRJU 412.
STAT	200 OR	_____ (3)	Introduction to Statistics	F/S	
STAT	301	_____ (3)	Probability and Statistics I	F/S	MATH 172 "C" or better

**B.S. Requirements 6-8 Hrs:** Any 200-level, 300-level, or 400-level ITEC course (3-4) (except ITEC 281, 301 304, 307, 369, 398, 495, 496, 497 and ITEC 498) or any 500 or 600-level ITEC course approved by the Department Chair. MATH 172, any 200-level or above MATH course, ASTR 111/112, any BIOL (except BIOL 301/302), any CHEM, any GEOL, GEOS 250, any PHYS, any PHSC.