## UNIVERSITY CORE

| A. Core Foundations |  | B. Core Skills \& Knowledge |
| :---: | :---: | :---: |
| CORE 101 | 3 | Courses must be from different disciplines: |
| CORE 102 | 3 | MATHEMATICAL SCIENCES (3 SH) |
|  |  | MATH 151 |
| HNRS 103* | 3 |  |
|  |  | NATURAL SCIENCES (4 SH) |
| CORE 201 | 3 | 4 |
|  |  | One of the following: ASTR 111, 112 |
| CORE 202 | 3 | BIOL 103, 104, 105 CHEM 101: 102, 120 <br> GEOL 100, 105: 106 PHYS 111: 112, 221: |
| NOTE: Courses listed in multiple areas can only be used to fulfill a single area requirement. |  | 222 |
|  |  | HUMANITIES (3 SH) 3 |
| Students can use only one course with their major prefix to fulfill core requirements. |  | One of the following: CLSS 110 CCST 110 ENGL 200 HIST 101, 102 PHIL 111, 112, 114; POSC 110; RELN 111, 112, 203, 206 |
| * Honors course - will meet CORE 101 \& 102 for those students in the RU honors program |  | VISUAL \& PERFORMING ARTS (3 SH) |
|  |  | - 3 |
|  |  | One of the following: ART 100, 215, 216 CVPA 266, DNCE 111 MUSC 100, 121, 123 THEA 100, 180 |
|  |  | SOCIAL/BEHAV. SCIENCES (3 SH) |
|  |  | - 3 |
|  |  | One of the following: ANSC 101, APST |
|  |  | 200 ECON 205, 206 GEOG 101, 102, 103 HIST 111, 112 POSC 120 PSYC 121 RELN |
|  |  |  |

## COLLEGE CORE

## A. National \& International Perspectives Courses must be from different disciplines:

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) 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 101
B. Supporting Skills \& Knowledge

NATURAL SCIENCES OR MATH (3/4 SH)
(Must select a 4-credit lab science)
___ _ 4
One of the following: ASTR 111, 112 BIOL 103, 104, 105 CHEM 101: 102, 120 GEOL 100, 105:106 PHYS 111: 112, 221:222

HUMANITIES, VISUAL \& PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)
$\overline{\text { One of the following: }} \overline{\text { CLSS } 110} \frac{3-4}{}$ CCST 110 ENGL 200 HIST 101, 102 PHIL 111, 112, 114; POSC 110; RELN 111, 112, 203, 206 Or ART 111, 215, 216, CVPA 266; DNCE 111 MUSC 100, 121, 123 THEA 100, 180 Or CHNS 101: 102, 201: 202 ARAB 101, 102, 201, 202, 300, 303 FORL 100, 200, 209, 210 309, 409,: FREN 100, 200:210, 300, 320 GRMN 100, 200: 210, 300 LATN 101. 201, 350, RUSS 100, 200, 210, 300; SPAN 101: 102, 103, 201, 202

SOCIAL/ BEHAV. SCI. OR HEALTH \& WELLNESS (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 HLTH 111,200, NUTR 214 RCPT 200

| Database CONCENTRATION |  |  |  |  | Prerequisites |
| :---: | :---: | :---: | :---: | :---: | :---: |
| *ITEC | 110 | - (3) | Principles of Information Technology | F/S |  |
| *ITEC | 120 | (4) | Principles of Computer Science I | F/S |  |
| *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 either ITEC 109 or ITEC 120 |
| *ITEC | 345 | (3) | Introduction to Information Security | F/S | "C" or better ITEC 120 |
| ITEC | 490 | (1) | IT Professionalism | F/S | Senior Standing (86 hours or more) |
| MATH | 151 | (3) | Calculus \& Analytical Geometry I | F/S | Math SAT $\geq 550$, or college pre-calc $\geq$ " ${ }^{\text {" }}$ |
| STAT | 200/301 | (3) | Statistics | F/S |  |
| ITEC | 122 | (3) | Discrete Mathematics | F/S | "C" or better in ITEC 120 and MATH 125, 126, 138, 140 or 151 |
| ITEC | 324 | (3) | Principles of Computer Science III | F/S | "C" or better in both ITEC 110/220 |
| ITEC | 320 | (3) | Procedural Analysis and Design | F/S | "C" or better in both ITEC 110/220 |
| ITEC | 325 | (3) | Web Programming II | F/S | ITEC 225 "C" or better, \& ITEC 340 |
| ITEC | 340 | -(3) | Database I | F/S | "C" or better in both ITEC 110/220 |
| ITEC | 441 | - (3) | Database II | S | ITEC 340 -"C" or better |
| ITEC | 442 | _ (3) | Data Warehousing, Mining, \& Reporting | F | ITEC 340 - "C or better |

Technical Electives - 12 Additional credit hours in 300 or 400 level ITEC course (except ITEC 301, 304, 307, 381, 398, 400, 493, and 498) or any 500 or 600 level course approved by the department chair.

ITEC $\qquad$ ( ), ITEC $\qquad$ ( ) , ITEC $\qquad$ ( ), ITEC $\qquad$ ( )

## Sample Schedule B.S. Computer Science Major - Database Concentration 15/16

| Fall Semester |  | Spring Semester |  |
| :---: | :---: | :---: | :---: |
| Freshman Year | Cr. | Freshman Year | Cr. |
| University Core A: Core 101 | 3 | University Core A: Core 102 | 3 |
| *ITEC 110 | 3 | ITEC 122 "C" or better ITEC 120 \& MATH 126, 138, 140, 145, or 151 | 3 |
| *ITEC 120 | 4 | *ITEC 220 "C" or better ITEC 120 | 4 |
| MATH 151 Math SAT $\geq 550$, or college pre-calc $\geq$ " ${ }^{\text {C" }}$ | 3 | CORE | 3 |
| UNIV 100 | 1 | CORE | 3 |
|  |  |  |  |
|  | 14 |  | 16 |

Students with no programming experience are advised to take ITEC 109 their first semester. This course does not count towards major requirements, but will count towards the 120 credit hours needed to graduate.* Students must receive a grade of "C" or better in courses marked with an asterisk *

| Sophomore Year | Cr. | Sophomore Year | Cr. |
| :--- | :---: | :--- | :---: |
| University Core A: Core 201 | 3 | University Core A: Core 202 | 3 |
| ITEC 324 "C" or better in both ITEC 110/220 | 3 | ITEC 320 "C" or better in both ITEC 110/220 | 3 |
| *ITEC 225 "C" or better in either ITEC 109 or ITEC 120 | 3 | ITEC 340 "C" or better in both ITEC 110/220 | 3 |
| CORE Natural Science | 4 | CORE Natural Science | 4 |
| "ITEC 345 "C" or better ITEC 120 | 3 | STAT 200 or STAT 301 | 3 |
|  | $\mathbf{1 6}$ |  | $\mathbf{1 6}$ |

CORE 101, 102, 201, and 202 must be completed in succession. Students should complete CORE 202 prior to their junior year.

| Junior Year | Cr. | Junior Year | Cr. |
| :---: | :---: | :---: | :---: |
| ITEC 3/4xx elective for major <br> 300 or 400 level ITEC course (except ITEC 301, 304, 307, 381, 398, 400,493 , and 498) or any 500 or 600 level course approved by the department chair. | 3 | ITEC 3/4xx elective for major <br> 300 or 400 level ITEC course (except ITEC 301, 304, 307, 381, 398, 400,493 , and 498) or any 500 or 600 level course approved by the department chair. | 3 |
| ITEC 441 (F ONLY) ITEC 340 " C " or better | 3 | ITEC 442 (S ONLY) ITEC 340 " C " or better | 3 |
| ITEC 325 ITEC 225 "C" or better \& ITEC 340 | 3 | CORE | 3 |
| CORE | 3 | CORE | 3 |
| FREE ELECTIVE to reach 120 credit hours | 3 | FREE ELECTIVE to reach 120 credit hours | 3 |
|  | 15 |  | 15 |
|  |  |  |  |
| Senior Year | Cr. | Senior Year | Cr. |
| ITEC 3/4xx elective for major | 3 | ITEC 3/4xx elective for major | 3 |
| B.S. requirement (see below) | 3 | B.S. requirement (see below) | 3 |
| ITEC 490 senior standing | 1 | FREE ELECTIVE to reach 120 credit hours | 3 |
| FREE ELECTIVE to reach 120 credit hours | 3 | FREE ELECTIVE to reach 120 credit hours | 3 |
| CORE | 3 | Core | 3 |
|  | 13 |  | 15 |

B.S. Requirements 6-8 hrs: Any 300 level or above ITEC course (except ITEC 301, 304, 307, 381, 398, and 498); any 500 or 600-level ITEC course approved by the Department Chair; MATH 152; any 200 level or above Math course; ASTR 111, ASTR 112, any Biology (except BIOL 301 and 302); any Chemistry; any Geology (except GEOL 110 and 205), any Physics, or PHSC 301.

