

**2015-2016 B.S. Information Science & Systems – Web Development Concentration**

NAME \_\_\_\_\_

ID# \_\_\_\_\_

**CORE CURRICULUM – 43-44 Semester Hours (SH)**

**UNIVERSITY CORE**

**A. Core Foundations**

CORE 101	_____	3
CORE 102	_____	3
HNRS 103*	_____	3
CORE 201	_____	3
CORE 202	_____	3

**B. Core Skills & Knowledge**

Courses must be from different disciplines:

**MATHEMATICAL SCIENCES (3 SH)**  
MATH 126 or 151 3

**NATURAL SCIENCES (4 SH)**  
\_\_\_\_\_ 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 (3 SH)**  
\_\_\_\_\_ 3

One of the following: CLSS 110 CCST 110  
ENGL 200 HIST 101, 102 PHIL 111, 112,  
114; POSC 110; RELN 111, 112, 203, 206

**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)**  
ECON 206 3

NOTE: Courses listed in multiple areas can only be used to fulfill a single area requirement.

Students can use only one course with their major prefix to fulfill core requirements.

\* Honors course – will meet CORE 101 & 102 for those students in the RU honors program

**COLLEGE CORE**

**A. National & International Perspectives**

- Courses must be from different disciplines:

**U. S. PERSPECTIVES (3 SH)**  
\_\_\_\_\_ 3

One of the following: APST 200  
ECON 101, 205, 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)**  
\_\_\_\_\_ 3-4

One of the following: CLSS 110 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, 102, 201, 350; RUSS 100, 200,  
210, 300; SPAN 101: 102, 103, 201, 202

**SOCIAL/ BEHAV. SCI. OR HEALTH &  
WELLNESS (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 205 SOCY 110,  
121 HLTH 111,200, NUTR 214 RCPT 200

**ISAS – Web Development Concentration \* A grade of C or better is required for any course with an asterisk**

**Web Development CONCENTRATION**

*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
*ITEC 225	_____ (3)	Web Programming I	F/S
*ITEC 345	_____ (3)	Introduction to Information Security	F/S
ITEC 490	_____ (1)	IT Professionalism	F/S
ITEC 226	_____ (1)	Digital Imaging for the Web	
ITEC 227	_____ (1)	Animation for the Web	
ECON 206	_____ (3)	Principles of Economics II	F/S
ACTG 211	_____ (3)	Fundamentals of Financial Accounting	F/S
MATH 126	_____ (3)	Business Calculus	F/S
STAT 200	_____ (3)	Introduction to Statistics	F/S
MKTG 340	_____ (3)	Principles of Marketing	F/S
ITEC 315	_____ (3)	GUI Design & Implementation	S
ITEC 325	_____ (3)	Web Programming II	F/S
ITEC 335	_____ (3)	Software Testing	S
ITEC 340	_____ (3)	Database I	F/S
ITEC 350	_____ (3)	Introduction to Computer Networking	F/S
ITEC 425	_____ (3)	Advanced Web Programming	S
COMS 326	_____ (3)	Web Production	F/S
Either:			
ITEC 442	_____ (3)	Data Warehousing, Mining and Reporting (F) OR	
ITEC 485	_____ (3)	Decision Support Systems	S

**Prerequisites**

"C" or better ITEC 120
"C" or better in ITEC 109 or ITEC 120
"C" or better in ITEC 120
Senior Standing (86 hours or more)
ITEC 109 or 120("C" or better)
ITEC 109 or 120("C" or better)
Sophomore Standing (26 hours or more)
4 years of High School Math
Jr Standing
"C" or better ITEC 225
ITEC 225"C" or better, and ITEC 340
"C" or better in ITEC 110, 220 and 225
"C" or better in both ITEC 110/220
"C" or better in both ITEC 110/220
ITEC 325
COMS 226 or ITEC 225

\*\*Any ITEC 3XX/4XX (except 301, 304, 307, 381, 398, and 498) or any 5xx/6xx needs Approval

See back for BS requirements

Sample Schedule B.S. Information Systems – Web Development Concentration 15/16  
ABET Accredited

Fall Semester		Spring Semester	
<b>Freshman Year</b>	<b>Cr.</b>	<b>Freshman Year</b>	<b>Cr.</b>
University Core A: Core 101	3	University Core A: Core 102	3
*ITEC 110	3	*ITEC 220 ITEC 120 "C" or better	4
*ITEC 120	4	STAT 200	3
MATH 126 Four Years of High School Math	3	ITEC 226	1
UNIV 100	1	CORE	3
	<b>14</b>		<b>14</b>
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 *			
<b>Sophomore Year</b>	<b>Cr.</b>	<b>Sophomore Year</b>	<b>Cr.</b>
University Core A: Core 201	3	University Core A: Core 202	3
*ITEC 225 "C" or better either ITEC 109 or ITEC 120	3	ITEC 335	3
ITEC 340 ITEC 110 and 220 "C" or better	3	ACTG 211 Sophomore Standing	3
ECON 206	3	COMS 326 COMS 226 or ITEC 225	3
CORE Natural Science	4	CORE Natural Science	4
	<b>16</b>		<b>16</b>
CORE 101, 102, 201, and 202 must be completed in succession. Students should complete CORE 202 prior to their junior year.			
<b>Junior Year</b>	<b>Cr.</b>	<b>Junior Year</b>	<b>Cr.</b>
ITEC 325 ITEC 225 "C" or better, ITEC 340	3	ITEC 370 ITEC 110 and 220 "C" or better	3
ITEC 350 ITEC 110 & 220 "C" or better	3	ITEC 425 (S Only) ITEC 325	3
ITEC 227	1	CORE	3
MKTG 340 Junior Standing	3	Free elective	3
CORE	3	ITEC 315 (S only) ITEC 225 "C" or better	3
Elective	3		
	<b>16</b>		<b>15</b>
<b>Senior Year</b>	<b>Cr.</b>	<b>Senior Year</b>	<b>Cr.</b>
*ITEC 490 senior standing	1	Free elective	3
CORE	3	B.S. requirements (see below)	3
B.S. requirement (see below)	3	ITEC 345 ITEC 120 "C" or better	3
Free elective	3	ITEC 442 or ITEC 485 (see front for prerequisites)	3
CORE	3	CORE	3
Elective	3		
	<b>16</b>		<b>15</b>

B.S. requirements 6-7 hrs:

\_\_\_ (3) Three hours chosen from the following: Any 300 level or above ITEC course (except ITEC 301, ITEC 304, ITEC 307, ITEC 381, ITEC 398 and ITEC 498) or any 500 or 600-level ITEC course approved by the Department Chair.

\_\_\_ (3-4) ITEC 324, or any 300-level or above ITEC course (except 301, 304, and ITEDC 381), MATH 152, ASTR 111, ASTR 112, any BIOL (except 301 and 302), any CHEM, any GEOL (except GEOL 110 and GEOL 205) any PHYS, or PHSC 301