

## Education Pathway to Bachelor of Science in Information Systems

From: Associate of Science Degree in Business Administration

### GENERAL EDUCATION REQUIREMENTS

#### REQUIRED COURSES (RG 6864)

Foundational Courses	CR	Equivalent
Engcmp 0005 Composition I	3	ENG 110
Engcmp 0006 Composition II	3	ENG 205
CommRc 0052 Public Speaking	3	COM 101
<b>Basic Algebra or Placement Test</b>		
Waived		
<b>Quantitative Reasoning (QR) - 1 Course</b>		
<i>Note - a student cannot test out of their QR requirement.</i>		
MATH 0002 College Algebra	3	MAT 145

#### FREE ELECTIVES

Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department.

	CR	Equivalent
BUS 0000 NE	3	BUS 110
ACCT 1570	3	BUS 210
ACCT 1100	3	ACC 230
Science with Lab	4	
BIOL 0111	1	BIO 114

#### WORLDS OF KNOWLEDGE (RG 6874)

Aesthetic and Creative Expression (RQ 3148)				
Subject	Number	Course Title	CR	Equivalent
Engwrt	1192	Technical Writing	3	
MUSIC	0212	Music	3	MUS 100

Societies & Civics (RQ 3150)				
Subject	Number	Course Title	CR	Equivalent
Econ	0105	Microeconomic Theory	3	ECO 110
SOC	0100	Intro to Sociology	3	SOC 100

Follow-Up Courses (RQ 3154)				
Subject	Number	Course Title	CR	Equivalent
Math	0401	Discrete Math Struct	3	
BIOL 0110		Biology	3	BIO 104

Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must be from different subjects. A student must take two additional "Follow-Up" courses from any World.

- >The minimum number of courses taken in the Worlds must be 10.
- >The Follow-Up courses may repeat a subject previously taken in a World.
- >A student cannot use a major required Subject course in one of the Worlds.
- >For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.
- >Students cannot use a course to count both in their QR requirement and one of the Worlds.
- >Students can choose QR and Worlds of Knowledge courses from published course lists.

Global History & Culture (RQ 3149)				
Subject	Number	Course Title	CR	Equivalent
Econ	0115	Macroeconomic Theory	3	ECO 100
ANTH 0800 or HIST 0120 or HIST 0130			3	***

Science & Nature (RQ 3153)				
Subject	Number	Course Title	CR	Equivalent
CS	0015	Intro to CS Programming	3	
Math	0121	Business Calculus	4	MAT 205

\*\*\* Choose 1: ANT 100 or CIV 100 or CIV 110

### MAJOR REQUIREMENTS

Required Economics (RQ 3179)		
	CR	Equivalent
Econ 0105 Microeconomic Theory	3	ECO 110
Econ 0115 Macroeconomic Theory	3	ECO 100
Required Math and CS (RQ 3219,3180,3181)		
	CR	Equivalent
Math 0401 Discrete Math Struct	3	
Math 0121* Business Calculus	4	MAT 205
CS 0015 Intro to CS Programming	3	
CS 0016 Intro to CS Progr Appl	1	
Required Writing (RQ 3182)		
	CR	Equivalent
Engwrt 1192 Technical Writing	3	
<b>Required at UPJ</b>	<b>10</b>	

All grades transferred in must be a "C" or better

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IS Core (RQ 3221)		
	CR	Equivalent
IS 0400* Intro to Information Systems	3	
IS 1410 Database Management Systems	3	
IS 1420 Systems Analysis & Design	3	
IS 1435 IS Project Management	3	
IS 1440 Quality Assurance	3	
<b>Required at UPJ</b>	<b>15</b>	

IS Electives (RQ 3222)		
Select four of the following courses		
	CR	Equivalent
IS 1412 Graphic Design	3	
IS 1415 Web Development	3	
IS 1425 Networking	3	
IS 1426 Hardware / Operating Systems	3	
IS 1427 Systems Administration	3	
IS 1428 Mobile Apps	3	
IS 1441 Business Intelligence	3	
IS 1445 IS Special Topics	3	
IS 1450 Enterprise Applications	3	
IS 1470 Information Security	3	
IS 1471 Advanced Information Security	3	
IS 1478 Ethical Hacking	3	
IS 1488 IS Internship	3	
IS 1489 IS Independent Study	3	
CS 0417 Interm Prog Using Java	3	
<b>Required at UPJ</b>	<b>12</b>	

#### IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

Business Required (RQ 3220)		
	CR	Equivalent
Bus 0100 Introduction to Business	1	ACP 100
Acct 0115 Accounting Principles 1	3	ACC 150
Fin 0300 Principles of Finance	3	
Bus 0350 Micro-Computer Appl	3	CIT 100
Mgmt 0500 Principles of Management	3	BUS 125
Mrkt 0600 Principles of Marketing	3	BUS 230
Bus 1540 Ethics & Leadership	3	
<b>Required at UPJ</b>	<b>6</b>	

Required Statistics (RQ 3178)		
	CR	Equivalent
Stat 1040 Statistics for Bus/Econ	3	MAT 200
Required Senior Seminar (RQ 3183)		
	CR	Equivalent
Bus 1700 Business Strategy	3	
<b>Required at UPJ</b>	<b>3</b>	