

**2017 – 2018 ACADEMIC YEAR
SCHOOL OF
INFORMATION TECHNOLOGY**

- **AS in
COMPUTER INFORMATION
SYSTEMS**

- **BS in
INFORMATION TECHNOLOGY

COMPUTER INFORMATION
SYSTEMS

COMPUTER NETWORKS AND
CYBERSECURITY**

*There are no MINORS available in the
School of Information Technology*

**2017 – 2018 ACADEMIC YEAR
CURRICULUM REVIEW WORKSHEET
AS IN COMPUTER INFORMATION SYSTEMS
(For Students Starting to Major IN Fall 2015 and Later)**

COURSES	CREDITS
MAJOR REQUIREMENTS (28 credits)	
<i>Information Technology Requirements (22 credits)</i>	
1. IT100 Introduction to Information Technology	3
2. IT118 Integrating Business Applications or MG105 Personal Finance	3
3. IT120 Computer Hardware	3
4. IT125 Computer Software	4
5. IT130 Database	3
6. IT150 Web Design	3
7. IT170 Cisco I	3
<i>Major Area Electives (6 credits)</i>	
8.	3
9.	3
LIBERAL ARTS REQUIRED and ELECTIVES (33 credits)	
General Education Requirements (21 credits)	
1. MA115 Quantitative Reasoning	3
2. MA XXX Math or LA XXX Liberal Arts Elective	3
3. EN111 College Writing and Critical Analysis	3
4. EN121 Analytical Thinking, Writing & Research	3
5. EN206 Professional Writing & Presentation	3
6. LA122 Fundamentals of Communication	3
7. LA XXX Liberal Arts Elective or Social Science	3
MAJOR-RELATED LIBERAL ARTS COURSE (6 credits):	
1. IT160 Programming Logic	3
2. IT295 System Analysis and Design	3
Liberal Arts Electives (6 credits)	
1.	3
2.	3
TOTAL CREDITS: (Must Equal at least 61 credits and at least 20 courses)	

**2017 – 2018 ACADEMIC YEAR
RECOMMENDED SEQUENCE
AS IN COMPUTER INFORMATION SYSTEMS
(For Students Starting the Major IN Fall 2015 and Later)**

SEMESTER 1

COURSE #	NAME	Prerequisites	CREDITS
IT 100	Introduction to Information Technology	None	3
IT 118 or MG 105	Integrated Business Applications or Personal Finance	None	3
LA xxx	Liberal Arts Elective		3
EN 111	College Writing and Critical Analysis	Placement or EN 068 or EN070	3
LA 122	Fundamentals of Communication	None	<u>3</u>
		Total	15

SEMESTER 2

COURSE #	NAME	Prerequisites	CREDITS
IT 120	Computer Hardware	IT 100 or IT 118	3
IT 130	Database	IT 100 or IT 118	3
IT 170	CISCO I	IT 100 or IT 118	3
EN 121	Analytical Thinking, Writing & Research	EN 111	3
MA 115	Quantitative Reasoning	Placement or MA 038 or MA 040	<u>3</u>
		Total	30

SEMESTER 3

COURSE #	NAME	Prerequisites	CREDITS
IT 125	Computer Software	IT 100 or IT 118	4
IT 160	Programming Logic	IT 100 or IT 118 AND MA-115	3
IT xxx	IT Elective		3
EN 206	Professional Writing & Presentation	EN 121 / Advisement Notes	3
MA xxx or LA xxx	Math or Liberal Arts		<u>3</u>
		Total	46

SEMESTER 4

COURSE #	NAME	Prerequisites	CREDITS
IT 150	Web Design	IT 100 or IT 118	3
IT 295	Systems Analysis and Design	IT 130/Sophomore Standing	3
IT xxx	IT Elective		3
LA xxx	Liberal Arts Elective		3
LA xxx	Liberal Arts Elective		<u>3</u>
		Total	61

**2017 – 2018 ACADEMIC YEAR
RECOMMENDED SEQUENCE
BS IN COMPUTER INFORMATION SYSTEMS
(For Students Starting the Major IN Fall 2015 and Later)**

SEMESTER 1

COURSE #	NAME	Prerequisites	CREDITS
IT 100	Introduction to Information Technology	None	3
IT 118 or MG 105	Integrated Business Applications or Personal Finance	None	3
EN 111	College Writing and Critical Analysis	Placement or EN 068 or EN070	3
LA 122	Fundamentals of Communication	None	3
LA XXX	Liberal Arts Elective		<u>3</u>
Total			15

SEMESTER 2

COURSE #	NAME	Prerequisites	CREDITS
IT 120	Computer Hardware	IT 100 or IT 118	3
IT 170	CISCO I	IT 100 or IT 118	3
EN 121	Analytical Thinking, Writing and Research	EN 111	3
MA 115	Quantitative Reasoning	Placement or MA 038 or MA 040	3
IT 130	Database	IT 100 or IT 118	<u>3</u>
Total			30

SEMESTER 3

COURSE #	NAME	Prerequisites	CREDITS
IT 125	Computer Software	IT 100 or IT 118	4
IT 160	Programming Logic	IT 100 or IT 118 AND MA-115	3
IT 171	CISCO II	IT 170	4
MA 120	Finite Math & Linear Modeling	MA 115	3
EN 206	Professional Writing and Presentation	EN 121/Advisement Notes	<u>3</u>
Total			47

SEMESTER 4

COURSE #	NAME	Prerequisites	CREDITS
IT 150	Web Design	IT 100 or IT 118	3
IT 295	Systems Analysis and Design	IT 130 / Sophomore Standing / Capstone Course Advisement Notes	3
IT XXX	IT Elective		3
MA XXX	Math		3
LA XXX	Liberal Arts Elective		<u>3</u>
Total			62

**2017 – 2018 ACADEMIC YEAR
RECOMMENDED SEQUENCE
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SEMESTER 5

COURSE #	NAME	Prerequisites	CREDITS
IT 265	Visual Basic	IT 160 / Advisement Notes	3
IT 330	Database Management Systems	IT 130 / Advisement Notes	3
IT XXX	IT Elective		3
IT XXX	IT Elective		3
EN 221	Literary Criticism and Analysis	EN 121	<u>3</u>
Total			77

SEMESTER 6

COURSE #	NAME	Prerequisites	CREDITS
IT 372	Network Security	IT 170	4
IT 396	Management Information Systems	IT 295	3
IT 260	Advanced Programmig	IT 160	3
IT XXX	IT Elective		3
LA XXX	Liberal Arts Elective		<u>3</u>
Total			93

SEMESTER 7

COURSE #	NAME	Prerequisites	CREDITS
IT 320	Operating Systems	IT 125	3
IT 376	Wireless Technology	IT 171 or IT 275 / Advisement Notes	3
IT 494	IT Project Management	IT 295	3
IT XXX	IT Elective		3
IT 390	Internship Seminar		<u>3</u>
Total			108

SEMESTER 8

COURSE #	NAME	Prerequisites	CREDITS
IT 495	Senior Seminar	Senior Standing, Last Semester of BS / Advisement Notes	3
IT XXX	IT Elective		3
LA XXX	Liberal Arts Elective		3
LA XXX	Liberal Arts Elective		3
LA XXX	Liberal Arts Elective		<u>3</u>
Total			123

*Open Electives should be used for course in the technology area such as: Networking, Web and Database, Security, or Programming

**2017 - 2018 ACADEMIC YEAR
RECOMMENDED SEQUENCE
BS IN COMPUTER NETWORKS and CYBERSECURITY
(For Students Starting the Major IN Fall 2017 and Later)**

SEMESTER 1

COURSE #	NAME	Prerequisites	CREDITS
IT 100	Introduction to Information Technology	None	3
IT 118 or MG 105	Integrated Business Applications or Personal Finance	None	3
EN 111	College Writing and Critical Analysis	Placement or EN 068 or EN070	3
LA 122	Fundamentals of Communication	None	3
MA 115	Quantitative Reasoning	Placement or MA 038 or MA 040	<u>3</u>
		Total	15

SEMESTER 2

COURSE #	NAME	Prerequisites	CREDITS
IT 120	Computer Hardware	IT 100 or IT 118	3
IT 160	Programming Logic	IT 100 or IT 118	<u>3</u>
IT 170	CISCO I	IT 100 or IT 118	3
EN 121	Analytical Thinking, Writing and Research	EN 111	3
LA xxx	Liberal Arts Elective		3
		Total	30

SEMESTER 3

COURSE #	NAME	Prerequisites	CREDITS
IT 125	Computer Software	IT 100 or IT 118	4
IT 130	Database	IT 100 or IT118 / Required Elective	3
IT 171	CISCO II	IT 170	4
MA 120	Finite Math & Linear Modeling	MA 115	3
EN 206	Professional Writing and Presentation	EN 121/Advisement Notes	<u>3</u>
		Total	47

SEMESTER 4

COURSE #	NAME	Prerequisites	CREDITS
IT 295	Systems Analysis and Design	IT 130 / Sophomore Standing / Capstone Course Advisement Notes	3
IT 320	Operating Systems	IT 125	3
IT 372	Network Security	IT 170	4
MA 142/242	Statistics I or Calculus I	MA 120	3
LA XXX	Liberal Arts Elective		<u>3</u>
		Total	63

2017 - 2018 ACADEMIC YEAR RECOMMENDED SEQUENCE BS IN COMPUTER NETWORKS and CYBERSECURITY (For Students Starting the Major <u>IN</u> Fall 2017 and Later)

SEMESTER 5

COURSE #	NAME	Prerequisites	CREDITS
IT 270	CISCO III	IT 171	3
IT 376	Wireless Technology	IT 171 or IT 275	3
IT 275	Networking in Windows Environment	IT 170	3
IT XXX	IT Elective		3
EN 221	Literary Criticism and Analysis	EN 121	<u>3</u>
		Total	78

SEMESTER 6

COURSE #	NAME	Prerequisites	CREDITS
IT 387	Ethical Hacking	IT 372	3
IT 271	CISCO IV	IT 270	3
IT 396	Management Information Systems	IT 295 / Required Elective	3
IT XXX	IT Elective		3
LA XXX	Liberal Arts Elective		<u>3</u>
		Total	93

SEMESTER 7

COURSE #	NAME	Prerequisites	CREDITS
IT 472	Information Security	IT 372	3
IT 494	IT Project Management	IT 295	3
IT XXX	IT Elective		3
IT XXX	IT Elective		3
IT 390	Internship Seminar		<u>3</u>
		Total	108

SEMESTER 8

COURSE #	NAME	Prerequisites	CREDITS
IT 495	Senior Seminar	Senior Standing, Last Semester of BS / Advisement Notes	3
IT 477	Network and Computer Forensics	IT 372	3
LA XXX	Liberal Arts Elective		3
LA XXX	Liberal Arts Elective		3
LA XXX	Liberal Arts Elective		<u>3</u>
		Total	123

*Open Electives should be used for course in the technology area such as: Networking, Web and Database, Security, or Programming

School of Information Technology
Master Course List of Non-LA and LA Courses Effective FALL 2015

<u>New Course Number</u>	<u>Course Name</u>	<u>Non LA</u>	<u>LA</u>	<u>Prerequisites</u>
IT-100	Introduction to Information Technology		x	None
IT-115	Electronic Spreadsheet	x		None
IT-118	Integrated Business Applications	x		None
IT-120	Computer Hardware	x		IT-100 or IT-118
IT-125	Computer Software		x	IT-100 or IT-IT-118
IT-130	Database	x		IT-100 or IT-IT-118
IT-150	Web Design Technology	x		IT-100 or IT-118
IT-156	Multimedia Authoring	x		IT-100 or IT-118
IT-160	Programming Logic		x	IT-100 or IT-118 AND MA-115
IT-170	Cisco I: Cisco Networking Basics	x		IT-100 or IT-118
IT-171	Cisco II: Cisco Basic Routing	x		IT-170
IT-215	Advanced Spreadsheet	x		IT-115
IT-225	Unix/Linux	x		IT-100 or IT-118; Junior Standing
IT-250	Advanced Web Design	x		IT-150
IT-257	Advanced Design Technology	x		IT-100 or IT-118
IT-260	Advanced Programming		x	IT-160
IT-265	Visual Basic	x		IT-160
IT-270	Cisco III: Cisco Switching	x		IT-171
IT-271	Cisco IV: Cisco WAN Technologies	x		IT-270
IT-275	Networking in a Windows Environment	x		IT-170
IT-290	Internship	x		Sophomore Standing
IT-291	Internship	x		IT-290
IT-295	System Analysis & Design		x	Sophomore standing and IT-130
IT-320	Operating Systems		x	IT-125
IT-330	Database Management Systems		x	IT-130
IT-360	JAVA	x		IT-265
IT-361	Programming with Mobile Applications	x		IT-265
IT-362	Mobile Application Development	x		IT-361
IT-368	Web Scripting and Development	x		IT-250

CONTINUED

School of Information Technology
Master Course List of Non-LA and LA Courses Effective FALL 2015

<u>New Course Number</u>	<u>Course Name</u>	<u>Non LA</u>	<u>LA</u>	<u>Prerequisites</u>
IT-372	Network Security		x	IT-170
IT-375	Active Directory	x		IT-275
IT-376	Wireless Technology	x		IT-171 or IT-275
IT-380	Social and Professional Issues in IT		x	Junior Standing
IT-385	Emerging Technologies		x	Junior Standing
IT-387	Ethical Hacking		x	IT-372 and Junior Standing
IT-390	Internship Seminar	x		Junior Standing
IT-391	Internship Seminar	x		IT-390
IT-395	Corporate Internship in Information Technology	x		Junior Standing and Approval by Dean of IT
IT-396	Management Information Systems		x	IT-295
IT-430	Advanced Database Management Systems		x	IT-330
IT-435	Database Administration		x	IT-330
IT-472	Information Security		x	IT-372
IT-477	Network and Computer Forensics		x	IT-372
IT-494	IT Project Management		x	IT-295
IT-495	Senior Seminar	x		Senior Standing and taken in last semester of BS. Strongly Recommended: LA-122/LA-120