

FACULTY OF INFORMATION TECHNOLOGY (FIT)
Information Systems Study Plan

First Semester (IT Core)					Second Semester (IT Core)			
I	Course #	Course Title	Pre-Req.	Cr	Course #	Course Title	Pre-Req.	Cr
	IT101	IT Foundations	----	3	IT112	Programming II	IT111	4
	IT111	Programming I	----	4	IT121	Digital and Logic Design	IT101	3
	GE111	English I	----	3	GS114	Math II	GS113	4
	GS113	Math I	----	3	GS141	General Physics I + Lab I	-----	3
	GS221	Probability and Statistics	----	3	GE112	English II	GE111	3
					GE101	Arabic I	-----	3
		<i>Semester Credit Hours</i>			16		<i>Semester Credit Hours</i>	
Third Semester (Specialization)					Fourth Semester (Specialization)			
II	Course #	Course Title	Pre-Req.	Cr	Course #	Course Title	Pre-Req.	Cr
	IT212	Data Structures and Algorithms	IT112	3	IT222	Computer Architecture	IT121	3
	IT201	Discrete Math and Structures	GS114, IT111	3	IT271	Network Fundamentals	IT121	3
	GE311	Technical Writing	GE112	3	GE331	Political Culture	>= 36 Cr. Hrs	3
	GS213	Math III	GS114	3	CN281	Internet Programming	IT112	3
	IS201	<i>Foundations of Information Systems</i>	IT112	3	IS271	<i>Financial Accounting</i>	GS113	3
	SE201	<i>Foundations of Software Engineering</i>	IT112	3				
	<i>Semester Credit Hours</i>			18		<i>Semester Credit Hours</i>		15
Fifth Semester (Specialization)					Sixth Semester (Specialization)			
III	Course #	Course Title	Pre-Req.	Cr	Course #	Course Title	Pre-Req.	Cr
	IT341	Database Systems	IT212	3	IT342	Security Principles and Practices	IT271	3
	IT322	Operating Systems	IT212	3	IT301	Computing Ethics & Society	IT101, >=45 Cr. Hrs.	3
	IS321	<i>IS Theory and Practice</i>	IS201	3	IS362	<i>Information System Development</i>	IS361, IT341	3
	IS361	<i>Systems Analysis and Design</i>	IS201	3	IS351	<i>Organizational Behavior</i>	IS201	3
	IS322	<i>Information System Engineering</i>	SE201	3	ISxxx	Dept. Elective I	75 Cr. Hrs	3
	<i>Semester Credit Hours</i>			15		<i>Semester Credit Hours</i>		15
Seventh Semester (Specialization)					Eighth Semester (Specialization)			
IV	Course #	Course Title	Pre-Req.	Cr	Course #	Course Title	Pre-Req.	Cr
	IT492	Internship	90 Cr. Hrs	3	IT499	Graduation Project	IS495, 100 Cr. Hrs	4
	IS495	Introduction to Graduation Project	93 Cr. Hrs.	--	IS475	E-Commerce and E-Marketing	IS321, CN281	3
	SE492	<i>Software Project Management</i>	SE201, 93 Cr. Hrs	3	IS472	Enterprise Resource Planning	IS321	3
	CS451	<i>Intelligent Systems</i>	IT212, IT201, 93 Cr. Hrs	3	ISxxx	Dept. Elective III	---	3
	SE321	<i>Software Design</i>	IS361	3	----	Breadth Elective II	---	3
	ISxxx	Dept. Elective II	----	3				
	----	Breadth Elective I	93 Cr. Hrs	3				
	<i>Semester Credit Hours</i>			18		<i>Semester Credit Hours</i>		16
Total Number of Hours Achieved = 133 Hrs.								

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• General Education courses (15 credits)

Course #	Course Title	Pre-Req.	Cr.
GE101	Arabic	----	3
GE111	English I	----	3
GE112	English II	GE111	3
GE331	Political Culture	----	3
GE311	Technical writing	GE112	3
Total			15

• General Science courses (16 credits)

Course #	Course Title	Pre-Req.	Cr.
GS113	Math I	----	3
GS114	Math II	GS113	3
GS213	Math III	GS114	3
GS141	General Physics I + Lab I	----	4
GS221	Probability and Statistics	----	3
Total			16

• IT Core courses (45 credits)

Course #	Course Title	Pre-Req.	Cr.
IT101	IT Foundations	----	3
IT111	Programming I	----	4
IT112	Programming II	IT111	4
IT121	Digital and Logic Design	IT101	3
IT201	Discrete Math and Structures	GS114, IT111	3
IT212	Data Structures and Algorithms	IT112	3
IT222	Computer Architecture	IT121	3
IT271	Network Fundamentals	IT121	3
IT301	Computing Ethics & Society	IT101, >=45 Cr. Hrs.	3
IT322	Operating Systems	IT212	3
IT341	Database Systems	IT212	3
IT342	Security Principles and Practices	IT271	3
IT492	Internship	90 Cr. Hrs	3
IT499	IT Capstone Project	IS495, 100 Cr. Hrs	4
Total			45

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- Information Systems department core courses (36 credits)

Course #	Course Title	Pre-Req.	Cr.
IS201	Foundations of Information Systems	IT112	3
SE201	Foundations of Software Engineering	IT112	3
IS271	Financial Accounting	GS113	3
CN281	Internet Programming	IT112	3
IS321	IS Theory and Practice	IS201	3
SE321	Software Design	IS361	3
SE322	Human Computer Interaction	SE201	3
IS351	Organizational Behavior	IS201	3
IS361	Systems Analysis and Design	IS201	3
IS362	Information System Development	IS361, IT341	3
IS472	Enterprise Resource Planning	IS321	3
CS451	Intelligent Systems	IT212, IT201, 93 Cr.	3
IS475	E-Commerce and E-Marketing	IS321, CN281	3
SE492	Software Project Management	SE201, 93 Cr. Hrs.	3
IS495	Introduction to Graduation Project	93 Cr. Hrs.	--
Total			42

- Information Systems department electives: students select 3 courses (9 credits)

Course #	Course Title	Pre-Req.	Cr.
IS302	Systems Simulation	IT112, GS221	3
IS374	Principles of Marketing	IS271	3
IS452	Optimization and Decision Making	IS351, GS221	3
IS491	Special Topics in Information Systems	90 Cr. Hr.	3
CS443	Data and Web Mining	CS451	3
CS471	Distributed Systems	IT322	3
SE461	Software Quality	SE321	3

Important Notes:

Department Electives

- To take *Dept. Electives* students must achieve a minimum of 75 Cr. Hrs.

Breadth Electives

- Students must select 2 courses from other departments as *Breadth Electives*.
- To take *Breadth Electives* students must achieve at least 93 Cr. Hrs.

INFORMATION SYSTEMS STUDENTS MUST COMPLETE A TOTAL OF 133 CREDITS.

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1st Year (Total credits = 36)

#	Course Name	Pre-req.	Cr.	Sem.	Post-req.
IT101	IT Foundations	----	3	1	IT121
IT111	Programming I	----	4	1	IT112
IT112	Programming II	IT111	4	2	IT212, IT301, IS201, SE201
IT121	Digital and Logic Design	IT101	3	2	IT222, IT271
GE101	Arabic	----	3	1	----
GE111	English I	----	3	1	GE112
GE112	English I	GE111	3	2	GE311
GS113	Math I	----	3	1	GS114, IS271
GS114	Math II	GS113	3	2	GS213, IT201
GS141	General Physics I + Lab I	----	4	2	----
GS221	Probability and Statistics	----	3	3,4	Dept. Elect. (IS452, IS302)

2nd Year (Total credits = 33)

#	Course Name	Pre-req.	Cr.	Sem.	Post-req.
IT201	Discrete Math and Structures	GS114, IT111	3	3	CS451
IT212	Data Structures and Algorithms	IT112	3	3	IT322, IT341, CS451
IT222	Computer Architecture	IT121	3	3,4	----
IT271	Network Fundamentals	IT121	3	3,4	IT271
GS213	Math III	GS114	3	3,4	----
IS201	Foundations of IS	IT112	3	3	IS321, IS351, IS361
SE201	Foundations of Software Eng.	IT112	3	3	SE322, SE492
IS271	Financial Accounting	GS113	3	4	Dept. Elect. (IS374)
CN281	Internet Programming	IT112	3	4	IS475
GE311	Technical Writing	GE112	3	3,4	----
GE331	Political Culture	>= 36 Cr. Hrs	3	3,4	----

3rd Year (Total credits = 30)

#	Course Name	Pre-req.	Cr.	Sem.	Post-req.
IT301	Computing Ethics & Society	IT101, >=45 Cr. Hrs.	3	5,6	----
IT322	Operating Systems	IT212	3	5	Dept. Elect. (CS471)
IT341	Database Systems	IT212	3	5	IS362
IT342	Security Principles & Practices	IT271	3	5,6	----
IS321	IS Theory and Practice	IS201	3	5	IS472, IS475
IS351	Organizational Behavior	IS201	3	5,6	Dept. Elect. (IS452)
IS361	Systems Analysis and Design	IS201	3	5	IS362, SE321
IS362	Information System Development	IS361, IT341	3	6	----
SE322	Human Computer Interaction	SE201	3	5,6	----
Dept. Electives (1 course)					
IS302	Systems Simulation	IT112, GS221	3	6	----
IS374	Principles of Marketing	IS271	3	6	----

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4rd Year (Total credits = 34)

#	Course Name	Pre-req.	Cr.	Sem.	Post-req.
IT492	Internship	90 Cr.	3	7	----
IS495	Intro. to Graduation Project	93 Cr.	---	7	IT499
IT499	IT Capstone Project	IS495, 108 Cr.	4	8	----
IS472	Enterprise Resource Planning	IS321	3	7, 8	----
IS475	E-Commerce and E-Marketing	IS321, CN281	3	7, 8	----
CS451	Intelligent Systems	IT212, IT201, 93 Cr.	3	7	Dept. Elect. (CS443)
SE492	Software Project Management	SE201, 93 Cr.	3	7	----
SE321	Software Design	IS361	3	6, 7	Dept. Elect. (SE461)
<i>Dept. Electives (2 courses)</i>					
IS452	Optimization & Decision Making	IT351, GS221	3	7, 8	----
IS491	Special Topics in IS	90 Cr.	3	7, 8	----
CS443	Data and Web Mining	CS451	3	7, 8	----
CS471	Distributed Systems	IT322	3	7, 8	----
SE461	Software Quality	SE321	3	7, 8	----
<i>Breadth Electives (2 courses)</i>					