

Study Plan of Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	CHEM 101	General Chemistry I	Required		4	College
	ENGL 110	English Compos. I	Required		3	University
	MATH 101	Calculus I	Required		4	College
	PHYS 101	General Physics I	Required		4	College
	PE 101	Physical Educ. I	Required		1	College
	ARAB 101	Practical Grammar	Required		2	University
Level 2	ICS 102	Computer Programing	Required	MATH 101	3	Program
	ENGL 102	English Composition II	Required	ENGL 110	3	College
	MATH 102	Calculus II	Required	MATH 101	4	College
	PHYS 102	General Physics II	Required	PHYS 101	4	College
	PE 102	Physical Educ. II	Required	PE 101	1	College
	IC 101	Intro. To Islamic Culture	Required		2	University
Level 3	ICS 201	Introduction to Computer Science	Required	ICS 102	4	Program
	ENGL 214	Technical Report Writing	Required	ENG 102	3	College
	MATH 201	Calculus III	Required	MATH 102	3	College
	ICS 251	Foundation of Computer Science	Required	MATH 101	3	Program
	COE 200	Foundation of Computer Engineering	Required	PHYS 102	4	College
Level 4	ICS 202	Data Structure	Required	ICS 201	4	Program
	ICS 232	Computer Org & Assembly Program.	Required	ICS 201, COE 200	4	Program

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	MATH 260	Introduction to Differential Equation & Linear Algebra	Required	MATH 201	3	College
	ICS 252	Discrete Structures	Required	MATH 101, ICS102	3	Program
	XE xxx	General Elective I	Elective		3	Program
Level 5	COE 308	Computer Architecture	Required	ICS 232	3	Program
	ICS 313	Fundamental of Programing. Language	Required	ICS 202	3	Program
	ICS 334	Database Systems	Required	ICS 202	4	Program
	ICS 353	Des. & Analysis of Algorithms	Required	ICS 202	3	Program
	IC 102	Islamic & Society Building	Required		2	University
	STAT 319	Prob. & Stat	Required	MATH 201	3	College
Level 6	IC 103	Economic System in Islam	Required		2	University
	ICS XXX	ICS Elective I	Elective		3	Program
	ICS 432	Computer Networking Systems	Required	ICS 232	4	Program
	ICS 413	Software Engineering	Required	ICS 202	4	Program
	ARAB 102	Arabic Composition	Required		2	University
	XE xxx	General Elective II	Elective		3	Program
Summer Session						
	ICS 350	Summer Coop	Required	ENGL 214, ICS334, ICS313		Program
Level 7	ICS 351	COOP Education	Required	ENGL 214, ICS334, ICS313	9	Program
Level 8	ICS XXX	ICS Elective III	Elective		3	Program



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	ICS XXX	ICS Elective II	Elective		3	Program
	ICS 431	Operating Systems	Required	ICS 232	4	College
	ICS 411	Senior Project	Required	ICS 334, ICS413, ENGL 214	3	Program
	IC 104	The Political System in Islam	Required		2	University
	XE xxx	General Elective III	Elective		3	Program

1. Elective Courses (9 - Credit Hours).

Course Number	Course Name	Credit			Prerequisite
ICS 381	Intro to Artificial Intelligence	3	0	3	ICS 202
ICS 434	Advanced Database Systems	3	0	3	ICS 334
ICS 435	Computer Graphics	3	0	3	ICS 202
ICS 481	Neural Networks	3	0	3	ICS 381
ICS 490	Special Topics 1	3	0	3	Department Approval
ICS 491	Special Topics 2	3	0	3	Department Approval
SWE 344	Internet Protocols & C/S Prog	2	3	3	ICS 202
SWE 423	Multimedia Systems	3	0	3	ICS 202
SWE 444	Internet & Web App Development	3	0	3	ICS 334



2. Free Elective Courses (9 - Credit Hours).

Course Number	Course Name	Credit			Prerequisite
ECON 101	Principles of Economics 1	3	0	3	--
ECON 202	Principles of Economics 2	3	0	3	ECON 101
ECON 403	Engineering Economics	3	0	3	--
MGT 301	Principles of Management	3	0	3	--
MGT 311	Legal Environment	3	0	3	--
MGT 401	Human Resources Management	3	0	3	MGT 301
MGT 410	Organization Behaviour & Design	3	0	3	MGT 301
MKT 301	Principles of Marketing	3	0	3	ECON 202