GULF UNIVERSITY FOR SCIENCE & TECHNOLOGY

Admissions, Registration & Student Affairs

Student Short Major Sheet

ARTS & SCIENCES

Academic Program: Computer Science Academic Plan: Computer Science Requirement Term: Fall Semester 2013-14

STUDENT ID Student ID: Student Name: Student Name Course Prerequisites

Course	Grade	Prerequisites	Т
1) General Education (16 Courses - 4	44 Credits)	(A and B)	
A- Skill Goals (5 Courses - 15 Credits			
I. Communicating Skills: 3 Courses			
ENGL 100-Academic English I	*	GEPT / TOEFL Score /	
_		ENGL 098	
ENGL 110-English Composition I	*	GEPT / TOEFL Score /	
	1	ENGL 100	
ENGL 112-English Composition	*	GEPT / TOEFL Score /	
П		ENGL 110	
II. Managing Information: 1 Course		•	
CSC 122-Introduction to	ELG-	ENGL 098/100/110/112 &	
Computer Programming	1	CS student	
III. Valuing		•	
Valuing offering			
B- Knowledge Goals (11 Courses -	29 Credits)	•	
I. Social Behavioral Sciences: 2 Courses	s		
Social & Behavioral Sciences offering			
Social & Behavioral Sciences offering			
II. Humanities & Fine Arts: 2 Courses		-	\neg
PHIL 245-Ethics and the	*	combined 6 credits from	\Box
Computer	1	MATH, CSC or PHIL	
Humanities & Fine Arts offering		,	
III. Arab Hertiage: 1 Course	•	•	
Arab Heritage offering			
IV. Math: 2 Courses	•	•	
MATH 131-Analytic Geometry and	*	MATH098 & REQTERM>=1301	
Calculus I	1	or MATH113	
MATH 132-Analytic Geometry &	*	MATH 131	
Calculus II	1		
V. Life/Natural Sciences: 4 Courses - 8 (Credits (I &)	ID	
I. Any 2 Courses - 6 credits	,		
BIOL 110-Biology I	*	CS student & passed ENGL	
	1	Foundation & BIOL 110L	
CHEM 110-General Chemistry I	*	CS student & passed ENGL	
	1	Foundation & (CHEM 110L	
PHYS 110-Basic Physics I	*	MATH 098/113 (CS	
	1	students from 1201 must	
II. Any 2 Lab Courses - 2 Credits	!	paraento from 1201 mast	
BIOL 110L-Biology-I Laboratory	*	BIOL 110 coreq	\neg
Biol fiel Biology Thacolatory	1	SIGE TIG COLLEG	
CHEM 110L-General Chemistry I	*	CHEM 110 coreq	
Laboratory	1	Ciman its colleg	
PHYS 110L-Basic Physics Lab	*	PHYS 110 coreq	
Titto fred Busic Filysics Bus	1	This is esseq	
	_		
2) Major Core Requirements: (15 Cou	rses - 46 Cre	dits)	
Must Complete all	1868 40 616	anto)	
CSC 125-Object Oriented	*	CSC 122	\dashv
Programming I		122	
CSC 130-Discrete Structures	*	CSC 122 & MATH 098 coreq	\dashv
250 150 Discrete directures		250 122 & M.1111 070 coleq	
CSC 225 Programming and Date	*	CSC 125 & CSC 130	-
CSC 225-Programming and Data		CSC 123 & CSC 130	
Structures CSC 226 Object Oriented	*	CSC 225	\dashv
CSC 226-Object Oriented	*	CSC 225 coreq	
Programing II	*	CCC 125	\dashv
CSC 230-Digital Systems	*	CSC 125	
GGG 270 G	*	000 220	\dashv
CSC 270-Computer Systems:	*	CSC 230	

2) M.: C. P		C 1:4-3
2) Major Core Requirements: (15 C Must Complete all	ourses - 40 (Credits)
CSC 125-Object Oriented	*	CSC 122
Programming I		
CSC 130-Discrete Structures	*	CSC 122 & MATH 098 coreq
CSC 225-Programming and Data	*	CSC 125 & CSC 130
Structures		
CSC 226-Object Oriented	*	CSC 225 coreq
Programing II		
CSC 230-Digital Systems	*	CSC 125
CSC 270-Computer Systems:	*	CSC 230
Architecture and Organization		
CSC 271-Computer Systems:	*	CSC 270
Programming		
CSC 313-Design and Analysis of	*	CSC 225
Algorithms		
CSC 325-Concepts of	*	CSC 226
Programming Languages		
CSC 350-Software Engineering	*	CSC 226
CSC 361-Database Management	*	CSC 313 PRE OR CO
Systems	ı	

GEPT: GUST English Placement Test HFA: Humanities & Fine Arts

GMPT: GUST Math Placement Test

LNS: I	_ife / l	Na	tural	Sciences	3	

Course	Grade	Prerequisites	
CSC 451-Capstone Project	*	CSC 350 & CSC 361 & PHIL	
		245	
CSC 473-Computer Networks &	*	CSC 313 & MATH 221	
Communications			
CSC 476-Operating Systems	*	CSC 270 & 313	
CSC 492-Practicum in Computer	*	CSC 473 coreq & 361	
Science		coreq	
3) Major Elective Requirements: (4		redits)	
Must Complete 4 Courses from the f	ollowing list		
CSC 123-Fundamentals of Web	*	ENGL 100 coreq	
Design			
CSC 235-Programming Challenges	*	CSC 225	
CSC 280-Introduction to Mobile	*	CSC 226	
Application Programming	I		

Must Complete 4 Courses from the following	lowing list	
CSC 123-Fundamentals of Web	*	ENGL 100 coreq
Design		
CSC 235-Programming Challenges	*	CSC 225
CSC 280-Introduction to Mobile	*	CSC 226
Application Programming	*	000000000000000000000000000000000000000
CSC 301-Web Application	*	CSC 226 & 361 coreq
Development	*	CSC 226
CSC 326-Object Oriented Design	*	CSC 226
Patterns CSC 351-Software Requirements	*	CSC 350
& Business Analysis	"	CSC 350
CSC 352-Java and Internet	*	CSC 226
Programming		C3C 220
CSC 380-Mobile Application	*	CSC 226 & CSC 361 coreq
Development Development		ese 220 to ese sor coreq
CSC 404-Introduction to	*	CSC 361 Pre or
eCommerce		co-requisite
CSC 405-User Interface	*	CSC 226
Development		
CSC 410-Software Testing &	*	CSC 350
Quality Assurance		
CSC 420-Software Maintenance &	*	CSC 350
Re-engineering		
CSC 428-Program Translation	*	CSC 226 & 270
Techniques		
CSC 430-Artificial	*	CSC 313
Intelligence		
CSC 440-Introduction to Fuzzy	*	CSC 226 & 313
logic and Neural Networks	*	000000000000000000000000000000000000000
CSC 441-Computer Graphics	*	CSC 226 & MATH 231
CSC 444-Digital Image	*	CSC 226 & MATH 210 & 221
Processing	*	000000
CSC 452-Object-Oriented	*	CSC 350
Analysis and Design	*	000 050 0 000 051
CSC 454-Software System	*	CSC 350 & CSC 271
Architectures CSC 474-Client - Server	*	CSC 4730 coreq
	"	CSC 4750 coreq
Architectures CSC 477-Security in Computing	*	Senior Standing
CSC 477-Security in Computing		Senior Standing
CSC 478-System Administration	*	CSC 473 co-requisite
& Computer Security		
CSC 489-Topics in Computer	*	Senior Standing
Science		

4) Major Core Requirements: (5 Courses - 15 Credits)					
Must Complete all					
MATH 210-Elementary Linear	*	MATH 098 or MATH 131 or			
Algebra		MATH 130			
MATH 221-Applied Statistics I	*	MATH 131			
MATH 231-Analytic Geometry &	*	MATH 132			
MATH 232-Introduction to	*	MATH 132			
Differential Equations MATH 331-Numerical Analysis I	*	MATH 232 & CSC 125			
WATTI 551-Numerical Analysis I		WATH 252 & CSC 125			

MI: Managing Information

SBS: Social Behavioral Sciences ELG-[Term Code]: Student eligibility to enroll

GUST

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Student Short Major Sheet

ARTS & SCIENCES

Academic Program: Computer Science
Academic Plan: Computer Science
Requirement Term: Fall Semester 2013-14

Student ID: STUDENT ID
Student Name: Student Name

Course	Grade	Prerequisites	Course	Grade	Prerequisites
5) Free Elective Requirements: (3 Course	es - 9 Credits				
Must Complete 3 Courses					
Free Electives General courses offering					
Free Electives General courses offering					
Free Electives General courses offering					
	UNITS	COURSES			
University Requirements	126	43			
Earned Credits	0	0			
Transferred Credits	0	0			
Satisfactory Credits	0	0			
Total Credits	0	0			
Needed	126	43			

GEPT: GUST English Placement Test HFA: Humanities & Fine Arts GMPT: GUST Math Placement Test LNS: Life / Natural Sciences

09/10/2018 **Time:** 10:04:49

MI: Managing Information SBS: Social Behavioral Sciences ELG-[Term Code]: Student eligibility to enroll

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GULF UNIVERSITY FOR SCIENCE & TECHNOLOGY

Admissions, Registration & Student Affairs

Student Short Major Sheet



Student ID: STUDENT ID
Student Name: Student Name

ARTS & SCIENCES

Academic Program: Computer Science
Academic Plan: Computer Science
Requirement Term: Fall Semester 2013-14

General Education Requirements

All Students are required to complete 44 credits of general Education requirements including 15 credits which correspond to three Skills Goals(Communicating, Managing and Valuing), and 29 credits to Knowledge Goals in the areas of Social and Behavioral Sciences, Humanities and Fine Arts Mathematics and Natural Sciences and Arabic Heritage and Cultural Diversity.

Skills Goals (5 courses - 15 credits)

I. Communicating Skills (3 courses - 9 credits)

ENGL 100,ENGL 110,ENGL 112 (All required)

Substitutes for students with advanced placement: Any course with an ENGL or MCM prefix THTR 180, Any language course

II. Managing Skills (1 courses - 3 credits)

CSC 123, CSC 122,MCM 104,MIS 118

Substitutes for students with advanced placement: Any other course in CSC or MIS Prefix

III. Valuing Skills (1 courses - 3 credits)

ANTH 111,ARAB 101,ART 110,CHIN 101,ECON 101,ECON 102,FREN 101,GRMN 101,HIST 103 HIST 104,MUSC 110,PHIL 110,PHIL 115,POLI 101,PSYC 103,SOC 110,SPAN 101

Knowledge Goals (11 courses - 29 credits)

IV. Social and Behavioral Sciences (2 courses - 6 credits)

Any course with code starting with ANTH, ECON, GEOG, HIST, MCM, POLI, PSYC & SOC.

V. Humanities and Fine Arts (2 courses - 6 credits)

Any course with starting code ARAB,ART,CHIN,ENGL,FREN,GRMN,HIST,MUSC,PHIL,SPAN & THTF

VI. Arab Heritage and Cultural Diversity (1 courses - 3 credits)

Arab Heritage: Any course with code ARAB,ANTH 214,HIST 144,HIST 252,PHIL 125 or any other course which deals the Arab Heritage.

Cultural Diversity: Any course with Code ANTH,HIST, ART 110,FREN 121,FREN 122,GRMN 122 MUSC 109,PHIL 185,PHIL 190,PSYC 223,SOCI 120,SPAN121,SPAN 122

VII. Mathematics (2 courses - 6 credits)

MATH 131, MATH 132

VIII. Natural Sciences (4 courses - 8 credits)

At least two course must be taken with their corresponding lab courses concurrently

A. Any two courses from BIOL 110, CHEM 110, PHYS 110

B. Any two corresponding lab courses BIOL 110L, CHEM 110L, PHYS 110L

Important Instructions and GuideLines

1.The credits of the following courses are NOT counted towards the Computer Science BS degree. CSC 101, CSC 105

Time:

MIS 118, MIS 206, MIS 306, MIS 310, MIS 342, MIS 344, MIS 345

MIS 347, MIS 448, MIS 450, MATH 100, MATH 111, MATH 113, MATH 121, MATH 130

GEPT: GUST English Placement Test HFA: Humanities & Fine Arts Date: 09/10/2018 GMPT: GUST Math Placement Test LNS: Life / Natural Sciences

10:04:49

MI: Managing Information

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ARTS & SCIENCES

Grade

Academic Program: Computer Science Academic Plan: Computer Science Requirement Term: Fall Semester 2013-14

Prerequisites

STUDENT ID Student ID: Student Name: Student Name

Grade	Prerequisites	Cou	ırse
UNITS	COURSES		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
	UNITS 0 0 0 0 0	UNITS COURSES 0 0 0 0 0 0 0 0 0 0 0 0 0	UNITS COURSES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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II. Managing Skills (1 courses - 3 credits)

CSC 123, CSC 122,MCM 104,MIS 118

Substitutes for students with advanced placement: Any other course in CSC or MIS Prefix

III. Valuing Skills (1 courses - 3 credits)

ANTH 111,ARAB 101,ART 110,CHIN 101,ECON 101,ECON 102,FREN 101,GRMN 101,HIST 103 HIST 104,MUSC 110,PHIL 110,PHIL 115,POLI 101,PSYC 103,SOC 110,SPAN 101

Knowledge Goals (11 courses - 29 credits)

IV. Social and Behavioral Sciences (2 courses - 6 credits)

Any course with code starting with ANTH, ECON, GEOG, HIST, MCM, POLI, PSYC & SOC.

V. Humanities and Fine Arts (2 courses - 6 credits)

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Important Instructions and GuideLines

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MIS 347, MIS 448, MIS 450, MATH 100, MATH 111, MATH 113, MATH 121, MATH 130

GEPT: GUST English Placement Test HFA: Humanities & Fine Arts

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GMPT: GUST Math Placement Test

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