



**Student ID:** STUDENT ID  
**Student Name:** Student Name

**ARTS & SCIENCES**  
**Academic Program:** Computer Science  
**Academic Plan:** Computer Science  
**Requirement Term:** Fall Semester 2020-21

Course	Grade	Prerequisites
<b>I) General Education (A &amp; B) (16 Courses - 44 Credits)</b>		
<b>A- CORE (7 Courses - 21 Credits)</b>		
<b>I. Writing Courses: 3 Courses</b>		
ENGL 100-Academic English I	*	GEPT / TOEFL Score / ENGL 098
ENGL 110-English Composition I	*	GEPT / TOEFL Score / ENGL 100
ENGL 112-English Composition II	*	GEPT / TOEFL Score / ENGL 110
<b>II. Communication: 1 Course</b>		
Communication offering		
<b>III. MATH Proficiency: 1 Course</b>		
MATH 131-Analytic Geometry and Calculus I	*	MATH098 & REQTERM>=1301 or MATH113
<b>IV. Information Literacy: 1 Course</b>		
CSC 123-Fundamentals of Web Design	*	ENGL 100 coreq
<b>V. Arab Heritage &amp; Cultural Diversity: 1 Course</b>		
Arab Heritage & Cultural Diver offering		
<b>B- EXPLORE (9 Courses - 23 Credits)</b>		
<b>I. Social Sciences : 2 Courses</b>		
Social Sciences offering		
Social Sciences offering		
<b>II. Humanities &amp; Fine Arts: 2 Courses</b>		
PHIL 245-Ethics and the Computer	*	combined 6 credits from MATH, CSC or PHIL
Humanities & Fine Arts offering		
<b>III. MATH: 1 Course</b>		
MATH 132-Analytic Geometry & Calculus II	*	MATH 131
<b>IV. Life/Natural Sciences: (4 Courses - 8 Credits) (a &amp; b)</b>		
<b>a. Any 2 courses : (2 Courses - 6 Credits)</b>		
BIOL 110-Biology I	*	CS student & passed ENGL Foundation & BIOL 110L
CHEM 110-General Chemistry I	*	CS student & passed ENGL Foundation & (CHEM 110L
PHYS 110-Basic Physics I	*	MATH 098/113 (CS students from 1201 must
<b>b. Any 2 Lab Courses : (2 Courses - 2 Credits)</b>		
BIOL 110L-Biology-I Laboratory	*	BIOL 110 coreq
CHEM 110L-General Chemistry I Laboratory	*	CHEM 110 coreq
PHYS 110L-Basic Physics Lab	*	PHYS 110 coreq

<b>2) Major Core Requirements: (16 Courses - 49 Credits)</b>		
<b>Must Complete all</b>		
CSC 122-Introduction to Computer Programming	ELG-2001	ENGL 098/100/110/112 & CS student
CSC 125-Object Oriented Programming I	*	CSC 122
CSC 225-Programming and Data Structures	*	CSC 125
CSC 226-Object Oriented Programing II	*	CSC 225 coreq
CSC 230-Digital Systems	*	CSC 125
CSC 270-Computer Systems: Architecture and Organization	*	CSC 230
CSC 300-Discrete Structures	*	CSC 125 & MATH 140
CSC 313-Design and Analysis of Algorithms	*	CSC 225 & 300
CSC 325-Concepts of Programming Languages	*	CSC 226
CSC 350-Software Engineering	*	CSC 226
CSC 361-Database Management Systems	*	CSC 313 PRE OR CO

GEPT: GUST English Placement Test  
coreq: Pre-requisite or Co-Requisite

GMPT: GUST Math Placement Test

Course	Grade	Prerequisites
CSC 451-Capstone Project	*	CSC 350 & CSC 361 & PHIL 245
CSC 473-Computer Networks & Communications	*	CSC 313 & MATH 221
CSC 476-Operating Systems	*	CSC 270 & 313
CSC 477-Security in Computing	*	Senior Standing
CSC 492-Practicum in Computer Science	*	CSC 473 coreq & 361 coreq

<b>3) Major Core Requirements: (4 Courses - 12 Credits)</b>		
<b>Must Complete all</b>		
MATH 140-Elementary Linear Algebra	*	MATH 098 or MATH 130
MATH 221-Applied Statistics I	*	MATH 131
MATH 232-Introduction to Differential Equations	*	MATH 132
MATH 331-Numerical Analysis I	*	MATH 232 & CSC 125

<b>4) Major Elective Requirements: (4 Courses - 12 Credits)</b>		
<b>Must Complete 4 Courses from the following list</b>		
CSC 235-Programming Challenges	*	CSC 225
CSC 271-Computer Systems: Programming	*	CSC 270
CSC 301-Web Application Development	*	CSC 226 & 361 coreq
CSC 326-Object Oriented Design Patterns	*	CSC 226
CSC 351-Software Requirements & Business Analysis	*	CSC 350
CSC 380-Mobile Application Development	*	CSC 226 & CSC 361 coreq
CSC 399-Internship in Computer Science	*	Junior Standing
CSC 404-Introduction to eCommerce	*	CSC 361 Pre or co-requisite
CSC 405-User Interface Development	*	CSC 226
CSC 410-Software Testing & Quality Assurance	*	CSC 350
CSC 420-Software Maintenance & Re-engineering	*	CSC 350
CSC 428-Program Translation Techniques	*	CSC 226 & 270
CSC 430-Artificial Intelligence	*	CSC 313
CSC 444-Digital Image Processing	*	CSC 226 & MATH 140 & 221
CSC 489-Topics in Computer Science	*	Senior Standing

<b>5) Free Elective Requirements: (3 Courses - 9 Credits)</b>		
<b>Must Complete 3 Courses</b>		
General Courses offering		
General Courses offering		
General Courses offering		

ELG-[Term Code]: Student eligibility to enroll



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	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

**General Education Requirements**

All Students are required to complete 44 credits of General Education requirements.  
21 credits from the CORE & 23 credits from EXPLORE area.

**Communication Offering**

Any course with code MCM or any of the following courses:  
ENGL 201, 214, 271, FREN 101, 102,270 GRMN 101,102, SPAN 101,102,270 THTR 121,180

**Arab Heritage & Cultural Diversity Offering**

Any course with code ARAB, HIST, GSM or any of the following courses:  
ANTH 212, FREN 122,270,380 GRMN 122,380 SPAN 122,270,380  
PHIL 185, PHIL 109, MUSC 109, SOC 120

**Social Sciences Offering**

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

**Humanities & Fine Arts Offering**

Any course with code ARAB, ART, CHIN, ENGL, FREN, GRMN, HIST, MUSC, PHIL, SPAN, THTR.

**Life & Natural Sciences Offering (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

**Students willing to follow specific concentration group must take major electives as listed:**

1. Mobile and Web Application Development Group :  
CSC 301, CSC 380, CSC 405 and any major elective course
2. Software Development Group :  
CSC 326, CSC 351, CSC 410 and any major elective course

**Important Instructions and GuideLines**

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