## **COLLEGE OF ARTS & SCIENCES** 2021-22 COMPUTER SCIENCE - INFORMATION SYSTEMS DEGREE PLAN

CIS ENG MAT	Crse#	Fall Semester					FIRST YEAR - FRESHMAN								
CIS ENG MAT	Crse#						Spring Semester								
ENG MAT		Course Name	Hrs	Dept	Crse#	Course Name	Hrs								
MAT	171	Computer Programming I	3	CIS	172	Computer Programming II <sup>3</sup>	3								
	101	English Composition I <sup>1</sup>	3	ENG	102	English Composition II <sup>1,3</sup>	3								
COM	120	Precalculus <sup>3</sup>	4	MAT	122	Analytics & Calculus I <sup>2,3</sup>	4								
CON	140	Speech Communication <sup>1</sup>	3	CIS	211	Intro to Web Design	3								
BIB	121	Life of Christ <sup>1</sup>	2	BIB	122	Acts of the Apostles <sup>1</sup>	2								
			15				15								
SECON	ID YE	AR - SOPHOMORE													
Fall Semester				Spring Semester											
Dept C	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs								
CIS	273	Data Structures <sup>3</sup>	3	CIS	374	Algorithms <sup>3</sup>	3								
CIS	267	Application Development I <sup>3</sup>	3	CIS	367	Application Development II <sup>3</sup>	3								
		Behavioral Science <sup>1</sup>	3			Elective	3								
HIS		History <sup>1</sup>	3			Creative Works <sup>1</sup>	3								
		Elective	2	CYB	201	Intro to Linux	3								
BIB		Bible	2	BIB		Bible	2								
			16				17								
THIRD	YEAR	- JUNIOR													
Fall Semester				Spring Semester											
Dept C	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs								
CYB	220	Windows Security	3	CIS	345	Computer Networks <sup>3</sup>	3								
CIS	388	Mobile Application Dev <sup>3</sup>	3			CIS/CYB Upper-Division Elective	3								
		Natural Science <sup>1</sup>	3	MAT	240	Discrete Mathematics <sup>3</sup>	3								
		Elective	2	MAT	235	Introductory Statistics	3								
CIS	324	Database Systems <sup>3</sup>	3			Elective	2								
BIB		Bible	2	BIB		Bible	3								
			16				17								
FOURT	TH YE/	AR - SENIOR													
Fall Semester				Spring Semester											
Dept C	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs								
	474	Artificial Intelligence <sup>3</sup>	3	CIS	491	Advanced Topics in CS <sup>3</sup>	3								
CIS	497	Internship	3	CIS	460	Operating Systems <sup>3</sup>	3								
CIS	441	System Admin. & Security <sup>3</sup>	3	CIS	322	Human-Computer Interaction	3								
CIS	311	Advanced Web Design <sup>3</sup>	3			Elective	3								
BIB	346	Foundations of Faith <sup>1</sup>	3	BIB	495	Values in Human Thought & Action <sup>1,</sup>	3								
			15				15								

<sup>1</sup>Liberal Arts Core Requirement

<sup>2</sup>Liberal Arts Core Requirement in Undergraduate Catalog

<sup>3</sup>Course has prerequisite. See corresponding *Undergraduate Catalog* 

## ADDITIONAL ITEMS RELATED TO THE MAJOR

The Quantitative Reasoning liberal arts core requirement must be satisfied by MAT 122, Calculus I.

Due to a deep prerequisite structure, it is essential that CIS 171, Computer Programming I, be taken the first fall semester of study in order to graduate in 8 semesters.

## The following guidelines are important. Failure to follow these guidelines may delay graduation.

- 1. Plan schedules carefully. Plan to fulfill prerequisites for future courses.
- 2. Do not alter the sequence of courses without consulting with your academic adviser as not all classes are offered every semester.
- 3. Before the enrollment period, check to make sure holds will not prevent you from registration.
- 4. Register for classes early during the registration period to secure classes.

## The Four-Year Degree Plan is a suggested plan of study. This plan does not replace the *Undergraduate Catalog*. The *Undergraduate Catalog* provides the official listing of program requirements.

2021-22 Undergraduate Liberal Arts Core Requirements							
I. Biblical Values	III. Broadened Perspectives						
A. Bible	A. Behavioral Sciences						
BIB 121 & 122 & 346 <b>OR</b> 446 7	BIB/FAM 230 OR PSY 210 OR SOC 241 OR	3					
II. Basic Skills	SOC 251						
11. Dasic Skills	B. Natural Sciences						
A. Written Communication	BIO 100 OR BIO 105 OR BIO 110 OR BIO	3					
ENG 101 AND ENG 102 6	111 <b>OR</b> BIO 112 <b>OR</b> BIO 211 <b>OR</b> CHE 121						
B. Oral Communication	& CHE 121L OR PHS 111 OR PHS 112 OR						
COM 140 3							
C. Quantitative Reasoning	C. Arts and Humanities						
MAT 100 OR MAT 101 OR MAT 120 OR 3		3					
MAT 122 <b>OR</b> MAT235	221 OR HIS 222 OR HUM 399A OR POL						
	CRITICAL AND CREATIVE WORKS:	3					
Complete course names and descriptions	ART 110 OR ART 201 OR ART 234 OR						
for the Liberal Arts Core Requirements	EING 215 OR EING 225 OR EING 235 OR						
	ENG 299A/399A OR MUS 110 OR MUS 214						
are located in the Undergraduate	OR PHI 243 OR PHI 245 OR PHI246 OR						
Catalog.	THE 160 <b>OR</b> THE 265 <b>OR</b> THE 299A/399A						
	HUMANITIES CAPSTONE: BIB/HUM 495	3					
	Total	34					