COLLEGE OF ARTS & SCIENCES

2023-2024 COMPUTER SCIENCE - INFORMATION SYSTEMS DEGREE PLAN

			YEA		ESHMA		
Fall Semester (2023)				Spring Semester (2024)			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs
CIS	171	Computer Programming I	3	CIS	172	Computer Programming II ³	3
ENG	101	English Composition I ¹	3	ENG	102	English Composition II ¹	3
MAT	120	Precalculus ³	4	MAT	122	Analytics & Calculus I ³	4
COM	140	Speech Communication ¹	3	CIS	211	Intro to Web Design	3
BIB	121	Life of Christ ¹	2	BIB	122	Acts of the Apostles ¹	2
			15				15
SECO	ND YE	AR - SOPHOMORE					
Fall Semester (2024)				Spring Semester (2025)			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs
CIS		Data Structures ³	3	CIS		Algorithms ³	3
CIS		Intro to Data Analytics ³	3	CYB	201	Intro to Linux	3
MAT	235	Introductory Statistics	3	CIS	345	Computer Networks ³	3
		History ¹	3			Creative Works ¹	3
BIB		Bible	2	BIB		Bible	3
			14				15
			14				13
THIR	D YEAF	R – JUNIOR	14				15
		R - JUNIOR ser (2025)	14	Sprin	a Sem	ester (2026)	15
Fall S	Semest	er (2025)				ester (2026) Course Name	
Fall S Dept	Semest Crse#	er (2025) Course Name	Hrs	Dept	Crse#	Course Name	Hrs
Fall S Dept CIS	Gemest Crse# 368	er (2025) Course Name Agile Development ³	Hrs 3			Course Name DevOps ³	Hrs 3
Fall S Dept CIS CIS	Crse# 368 367	Course Name Agile Development ³ Web Development ³	Hrs 3 3	Dept	Crse#	Course Name DevOps ³ Elective	Hrs 3 3
Fall S Dept CIS CIS CIS	Crse# 368 367 388	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³	Hrs 3 3 3	Dept CIS	Crse# 467	Course Name DevOps ³ Elective Behavioral Science ¹	Hrs 3 3 3
Fall S Dept CIS CIS CIS CIS	Crse# 368 367 388 324	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³	Hrs 3 3 3 3 3	Dept	Crse#	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³	Hrs 3 3 3 3
Fall S Dept CIS CIS CIS CIS CIS	Crse# 368 367 388	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship	Hrs 3 3 3 3 3 3	Dept CIS MAT	Crse# 467	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective	Hrs 3 3 3 3 3 3 3
Fall S Dept CIS CIS CIS CIS	Crse# 368 367 388 324	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³	Hrs 3 3 3 3 3 3 3 3	Dept CIS	Crse# 467	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³	Hrs 3 3 3 3 3 3 3 3
Fall S Dept CIS CIS CIS CIS BIB	Crse# 368 367 388 324 497	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship Bible	Hrs 3 3 3 3 3 3	Dept CIS MAT	Crse# 467	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective	Hrs 3 3 3 3 3 3 3
Fall S Dept CIS CIS CIS BIB	Crse# 368 367 388 324 497 RTH YE	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship Bible AR - SENIOR	Hrs 3 3 3 3 3 3 3 3	Dept CIS MAT BIB	Crse# 467 240	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective Bible	Hrs 3 3 3 3 3 3 3 3
Fall S Dept CIS CIS CIS BIB FOUL Fall S	Crse# 368 367 388 324 497 CTH YE Semest	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship Bible AR - SENIOR er (2026)	Hrs 3 3 3 3 3 3 3 18	Dept CIS MAT BIB	Crse# 467 240 g Semo	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective Bible	Hrs 3 3 3 3 3 3 3 3 18
Fall S Dept CIS CIS CIS CIS BIB FOUE Fall S Dept	Crse# 368 367 388 324 497 Crse#	course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship Bible AR - SENIOR cer (2026) Course Name	Hrs 3 3 3 3 3 1 8 1 8 Hrs	Dept CIS MAT BIB Sprin Dept	Crse# 467 240 g Sem Crse#	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective Bible ester (2027) Course Name	Hrs 3 3 3 3 3 3 3 3
Fall S Dept CIS CIS CIS BIB FOUE Fall S Dept CIS	Crse# 368 367 388 324 497 Crse# 455	course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship Bible AR - SENIOR course Name Cloud Architecture	Hrs 3 3 3 3 3 3 18 18	Dept CIS MAT BIB Sprin Dept CIS	Crse# 467 240 g Sem Crse# 491	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective Bible Elective Bible Course Name Advanced Topics in CS ³	Hrs 3 3 3 3 3 3 3 18 Hrs 3
Fall S Dept CIS CIS CIS BIB FOUE Fall S Dept CIS	Crse# 368 367 388 324 497 Crse# Crse# 455 441	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship Bible AR - SENIOR er (2026) Course Name Cloud Architecture System Admin & Security	Hrs 3 3 3 3 3 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	Dept CIS MAT BIB Sprin Dept	Crse# 467 240 g Sem Crse#	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective Bible ester (2027) Course Name Advanced Topics in CS ³ Operating Systems ³	Hrs 3 3 3 3 3 3 3 3 18 Hrs 3 3 3
Fall S Dept CIS CIS CIS BIB FOUR Fall S Dept CIS CIS	Crse# 368 367 388 324 497 Crse# 455	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship Bible AR - SENIOR ter (2026) Course Name Cloud Architecture System Admin & Security Advanced Web Design	Hrs 3 3 3 3 3 3 3 3 18 Hrs 3 3 3 3	Dept CIS MAT BIB Sprin Dept CIS	Crse# 467 240 g Sem Crse# 491	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective Bible ester (2027) Course Name Advanced Topics in CS ³ Operating Systems ³ Elective	Hrs 3 3 3 3 3 3 3 3 18 Hrs 3 3 3 3 3
Fall S Dept CIS CIS CIS BIB FOUE Fall S Dept CIS	Crse# 368 367 388 324 497 Crse# Crse# 455 441	er (2025) Course Name Agile Development ³ Web Development ³ Mobile Application Development ³ Database Systems ³ Internship Bible AR - SENIOR er (2026) Course Name Cloud Architecture System Admin & Security	Hrs 3 3 3 3 3 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	Dept CIS MAT BIB Sprin Dept CIS	Crse# 467 240 g Sem Crse# 491	Course Name DevOps ³ Elective Behavioral Science ¹ Discrete Mathematics ³ Elective Bible ester (2027) Course Name Advanced Topics in CS ³ Operating Systems ³	Hrs 3 3 3 3 3 3 3 3 18 Hrs 3 3 3

(Superscripts if needed)

¹Liberal Arts Core Requirement

²Liberal Arts Core Requirement in Undergraduate Catalog

³Course 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 presrequisite structure, it's 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.

I. Biblical Values	III. Broadened Perspectives						
A. Bible	A. Behavioral Sciences						
BIB 121 & 122 & 346 OR 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 OR BIO 112 OR BIO 211 OR CHE 121						
B. Oral Communication	& CHE 121L OR PHS 111 OR PHS 112 OR						
COM 140 3	PHS 201 OR PHS 211						
C. Quantitative Reasoning	C. Arts and Humanities						
MAT 100 OR MAT 101 OR MAT 120 OR 3	HISTORY: HIS 111 OR HIS 112 OR HIS	3					
MAT 122 OR 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						
	ENG 215 OR ENG 225 OR ENG 235 OR						
for the Liberal Arts Core Requirements	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 OR THE 265 OR THE 299A/399A						
, j		2					
	HUMANITIES CAPSTONE: BIB/HUM 495	3					
	Total	34					

2023-2024 Undergraduate Liberal Arts Core Requirements