

COLLEGE OF ARTS & SCIENCES
2024-2025 ENGINEERING – COMPUTER ENGINEERING
B.S. DEGREE PLAN

FIRST YEAR - FRESHMAN							
Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs	Dept.	Crse#	Course Name	Hrs
ENS	101	Introduction to Engineering	2	ENS	103	Engineering Graphics	3
MAT	120	Pre-Calculus ³	4	MAT	122	Analytics and Calculus I ^{1, 3}	4
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
BIB	101	Life of Christ ¹	2	BIB	102	Acts of the Apostles ¹	2
			14				15
SECOND YEAR - SOPHOMORE							
Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs	Dept.	Crse#	Course Name	Hrs
PHS	211	Physics for Science and Engineering I ³	4	PHS	212	Physics for Science and Engineering II ³	4
MAT	223	Analytics and Calculus II ³	4	MAT	224	Analytics and Calculus III ³	4
CIS	273	Data Structures ³	3	MAT	240	Discrete Mathematics ³	3
CIS	277	Introduction to Data Analytics ³	3	CIS	374	Algorithms ³	3
BIB		Bible	2	BIB		Bible	3
			16				17
THIRD YEAR - JUNIOR							
Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs	Dept.	Crse#	Course Name	Hrs
ENS	310	Circuits ³	3	ENS	320	Electronics ³	3
MAT	330	Linear Algebra ³	3	MAT	345	Differential Equations ³	3
CIS	386	Architecture and Assembly Language ³	3	CIS	460	Operating Systems ³	3
CHE	121	General Chemistry I	3	COM	140	Speech Communication ¹	3
CHE	121L	General Chemistry I Lab	1	BIB		Bible/Behavioral Science ¹	3
BIB		Bible	3				
			16				15
FOURTH YEAR – SENIOR							
Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs	Dept.	Crse#	Course Name	Hrs
ENS	481	Capstone Engineering I ³	3	ENS	482	Capstone Engineering II ³	3
ENS	340	Digital Hardware Design ³	3	CIS	345	Computer Networks ³	3
ENS	370	Signals and Systems ³	3	ECO	272	Macroeconomics	3
		Critical and Creative Works ¹	3	HIS		History ¹	3
BIB	346	Foundations of Faith ¹	3	BIB	495	Values in Human Thought and Action ¹	3
		Elective	3				
			18				15
						Total	126

¹Liberal Arts Core Requirement

²Liberal Arts Core Requirements 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 1.

The Natural Sciences Liberal Arts Core requirement must be satisfied by PHY 211, Physics for Science and Engineering 1.

Due to a deep prerequisite structure, it is essential that CIS 171, Computer Programming 1, 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 registering.
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.

2024-25 Undergraduate Liberal Arts Core Requirements

I. Biblical Values	III. Broadened Perspectives
A. Bible	A. Behavioral Sciences
BIB 121 & 122 & 346 OR 446 7	FAM/SOC 230 OR PSY 210 OR SOC 241 OR SWK 251 3
II. Basic Skills	B. Natural Sciences
A. Written Communication	BIO 100 OR BIO 105 OR BIO 110 OR 3
ENG 101 AND ENG 102 6	BIO 111 OR BIO 112 OR BIO 211 OR
B. Oral Communication	CHE 121 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 MAT 122 OR MAT 235 3	HISTORY: HIS 111 OR HIS 112 OR HIS 221 OR HIS 222 OR HUM 399A OR POL 3
<i>Complete course names and descriptions for the Liberal Arts Core Requirements are located in the Undergraduate Catalog.</i>	CRITICAL AND CREATIVE WORKS: 3
	ART 110 OR ART 234 OR ENG 225 OR ENG 226 OR ENG 235 OR ENG 236 OR ENG 245 OR ENG 246 OR MUS 110 OR MUS 214 OR PHI 243 OR PHI 245 OR PHI 246 OR THE 160 OR THE 265 OR THE 299A
	HUMANITIES CAPSTONE: BIB/HUM 495 3

Total 34