

**COLLEGE OF ARTS & SCIENCES**  
**2024-2025 Engineering – Computer Engineering (B.S.)**  
**DEGREE PLAN**

<b>FIRST YEAR - FRESHMAN</b>							
<b>Fall Semester</b>				<b>Spring Semester</b>			
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 <sup>3</sup>	4	MAT	122	Analytics and Calculus 1 <sup>1, 3</sup>	4
CIS	171	Computer Programming 1	3	CIS	172	Computer Programming 2 <sup>3</sup>	3
ENG	101	English Composition 1 <sup>1</sup>	3	ENG	102	English Composition 2 <sup>1</sup>	3
BIB	101	Life of Christ <sup>1</sup>	2	BIB	102	Acts of the Apostles	2
			<b>14</b>				<b>15</b>
<b>SECOND YEAR - SOPHOMORE</b>							
<b>Fall Semester</b>				<b>Spring Semester</b>			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
PHS	211	Physics for Science and Engineering 1 <sup>3</sup>	4	PHS	212	Physics for Science and Engineering 2 <sup>3</sup>	4
MAT	223	Analytics and Calculus 2 <sup>3</sup>	4	MAT	224	Analytics and Calculus 3 <sup>3</sup>	4
CIS	273	Data Structures <sup>3</sup>	3	MAT	240	Discrete Mathematics <sup>3</sup>	3
CIS	277	Introduction to Data Analytics <sup>3</sup>	3	CIS	374	Algorithms <sup>3</sup>	3
BIB		Bible	2	BIB		Bible	3
			<b>16</b>				<b>17</b>
<b>THIRD YEAR - JUNIOR</b>							
<b>Fall Semester</b>				<b>Spring Semester</b>			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
ENS	310	Circuits <sup>3</sup>	3	ENS	320	Electronics <sup>3</sup>	3
MAT	330	Linear Algebra <sup>3</sup>	3	MAT	345	Differential Equations <sup>3</sup>	3
CIS	386	Architecture and Assembly Language <sup>3</sup>	3	CIS	460	Operating Systems <sup>3</sup>	3
CHE	121	General Chemistry 1	3	COM	140	Speech Communication <sup>1</sup>	3
CHE	121L	General Chemistry 1 Lab	1	BIB		Bible / Behavioral Science <sup>1</sup>	3
BIB		Bible	3				
			<b>16</b>				<b>15</b>
<b>FOURTH YEAR – SENIOR</b>							
<b>Fall Semester</b>				<b>Spring Semester</b>			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
ENS	481	Capstone Engineering 1 <sup>3</sup>	3	ENS	482	Capstone Engineering 2 <sup>3</sup>	3
ENS	340	Digital Hardware Design <sup>3</sup>	3	CIS	345	Computer Networks <sup>3</sup>	3
ENS	370	Signals and Systems <sup>3</sup>	3	ECO	272	Macroeconomics	3
		Critical and Creative Works <sup>1</sup>	3	HIS		History <sup>1</sup>	3
BIB	346	Foundations of Faith <sup>1</sup>	3	BIB	495	Values in Human Thought and Action <sup>1</sup>	3
		Elective	3				
			<b>18</b>				<b>15</b>
<b>Total</b>							<b>126</b>

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

<sup>2</sup>Liberal Arts Core Requirements 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 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.**

### 20xx-xx Undergraduate Liberal Arts Core Requirements

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

**Total 34**