

COLLEGE OF ARTS & SCIENCES
2025-2026 PHYSICAL SCIENCE – PRE-ENGINEERING
3-2 DUAL DEGREE PROGRAM

FIRST YEAR – FRESHMAN

2025 Fall Semester				2026 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 ²	4	MAT	122	Analytics and Calculus I ¹²	4
CHE	121	General Chemistry I	3	CHE	122	General Chemistry II ²	3
CHE	121L	General Chemistry I Lab	1	CHE	122L	General Chemistry II Lab ²	1
ENG	101	English Composition I ¹	3	ENG	102	English Composition II ¹²	3
BIB	121	Life of Christ ¹	2	BIB	122	Acts of the Apostles ¹	2
			15				16

SECOND YEAR – SOPHOMORE

2026 Fall Semester				2027 Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
PHS	211	Physics for Science and Engineering I ²	4	PHS	212	Physics for Science and Engineering II ²	4
MAT	223	Analytics and Calculus II ²	4	MAT	224	Analytics and Calculus III ²	4
CIS	171	Computer Programming I	3	BIB		Bible	2
BIB		Bible	2	¹			3
¹			3	³			3
			16				16

THIRD YEAR – JUNIOR

2027 Fall Semester				2028 Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
ENS	231	Engineering Mechanics I: Statics	3	ENS	232	Engineering Mechanics II: Dynamics	3
BIB	346	Foundations of Faith ¹ (or BIB 446)	3	MAT	345	Differential Equations ²	3
¹			3	BIB	495	Values in Human Thought and Action ¹	3
³			3	¹			3
³			3	³			3
³			3	³			3
			18				18

¹Liberal Arts Core Requirement

²Course has prerequisite. See corresponding *Undergraduate Catalog*

³Consult with pre-engineering advisor for engineering school requirements

ADDITIONAL ITEMS RELATED TO THE MAJOR

The Quantitative Reasoning Liberal Arts Core requirement must be satisfied by MAT 120, Precalculus.

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

Liberal Arts Core courses should be chosen to satisfy FHU and engineering school requirements.

CHE 321 and CHE 322 may be recommended for Chemical Engineering, check with engineering school.

ACC 231 and ACC 233 may be recommended for Industrial Engineering, check with engineering school.

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.

2025-2026 Undergraduate Liberal Arts Core Requirements

I. Biblical Values		III. Broadened Perspectives	
A. Bible		A. Behavioral Sciences	
BIB 121 & 122 & BIB 346 OR BIB 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 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. Oral Communication			
COM 140	3		
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: 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	3
		Humanities Capstone: BIB/HUM 495	3
Total			34