

COLLEGE OF ARTS & SCIENCES
2024-2025 PHYSICAL SCIENCE – PRE-ENGINEERING
3-2 DUAL DEGREE PLAN

FIRST YEAR - FRESHMAN							
Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
BIB	121	Life of Christ ¹	2	BIB	122	Acts of Apostles ¹	2
CHE	121	General Chemistry I	3	CHE	122	General Chemistry II ³	3
CHE	121L	General Chemistry I Lab	1	CHE	122L	General Chemistry II Lab ³	1
ENG	101	English Composition I ¹	3	ENG	102	English Composition II ^{1,3}	3
ENS	101	Introduction to Engineering	2	ENS	103	Engineering Graphics	3
MAT	120	Pre-Calculus ²	4	MAT	122	Analytics & Calculus I ³	4
			15				16
SECOND YEAR - SOPHOMORE							
Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
BIB		Bible	2	BIB		Bible	2
CIS	171	Computer Programming I	3	MAT	224	Analytics & Calculus III ³	4
MAT	223	Analytics & Calculus II ³	4	PHS	212	Physics for Science & Engineers II ³	4
PHS	211	Physics for Science & Engineers I ^{2,3}	4	1			3
1			3	4			3
			16				16
THIRD YEAR - JUNIOR							
Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
BIB	346	Foundations of Faith ¹ (or BIB446)	3	BIB	495	Values in Human Thought & Action ^{1,3}	3
ENS	231	Engineering Mechanics I: Statics ³	3	ENS	232	Engineering Mechanics II: Dynamics ³	3
1			3	MAT	345	Differential Equations ³	3
4			3	1			3
4			3	4			3
4			3	4			3
			18				18

¹Liberal Arts Core Requirement

²Liberal Arts Core Requirements in *Undergraduate Catalog*

³Course has prerequisite. See corresponding *Undergraduate Catalog*

⁴Consult with the pre-engineering advisor for engineering school requirements.

ADDITIONAL ITEMS RELATED TO THE MAJOR

- 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.

2024-25 Undergraduate Liberal Arts Core Requirements

I. Biblical Values		III. Broadened Perspectives	
A. Bible		A. Behavioral Sciences	
BIB 121 AND 122 AND 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 BIO 111 OR BIO 112 OR BIO 211 OR CHE 121 OR PHS 111 OR PHS 112 OR PHS 201 OR PHS 211	
ENG 101 AND ENG 102	6	3	
B. Oral Communication		C. Arts and Humanities	
COM 140	3	HISTORY: HIS 111 OR HIS 112 OR HIS 221 OR HIS 222 OR HUM 399A OR POL 251	
C. Quantitative Reasoning		CRITICAL AND CREATIVE WORKS:	
MAT 100 OR MAT 101 OR MAT 120 OR MAT 122 OR MAT 235	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	
Complete course names and descriptions for the Liberal Arts Core Requirements are located in the Undergraduate Catalog.		HUMANITIES CAPSTONE: BIB/HUM 495	
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