COLLEGE OF ARTS & SCIENCES

2022-2023 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	The 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 and 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 and Calculus III ³	4		
MAT	223	Analytics and Calculus II ³	4	PHS	212	Physics for Sci. & Engrs. II ³	4		
PHS	211	Physics for Sci. & Engrs. 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	Found. of Faith ¹ (or BIB 446)	3	BIB	495	Values in Human Thought ^{1,3}	3		
ENS	231	Engr. Mech. I: Statics ³	3	ENS	232	Engr. Mech. 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*

 $^{^4}$ Consult 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
- 4. Register for classes early during the registration period to secure classes.

The 3-2 Dual 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.

2022-23 Undergraduate Liberal Arts Core 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		
III. 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 PHS		
COM 140 3			
C. Quantitative Reasoning	C. Arts and Humanities		
MAT 100 OR MAT 101 OR MAT 120 OR 3			
MAT 122 OR MAT235	OR HIS 222 OR HUM 399A OR POL 251		
	CRITICAL AND CREATIVE WORKS: ART 3		
	110 OR ART 201 OR ART 234 OR ENG 215		
Complete course names and descriptions	OR ENG 225 OR ENG 235 OR ENG		
for the Liberal Arts Core Requirements are	299A/399A OR MUS 110 OR MUS 214 OR PHI		
located in the Undergraduate Catalog.	243 OR PHI 245 OR PHI246 OR THE 160 OR		
located in the ondergraduate Catalog.	THE 265 OR THE 299A/399A		
	HUMANITIES CAPSTONE: BIB/HUM 495 3		