COLLEGE OF ARTS & SCIENCES

2020-21 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*

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
- 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.

2020-21 Undergraduate Liberal Arts Core Requirements									
I. Biblical Values		B. Natural Sciences							
BIB 121 AND 122 AND 346 OR 446	7	BIO 100 OR BIO 105 OR BIO 110 OR	3 or 4						
II. Basic Skills		BIO 111 OR BIO 112 OR BIO 211 OR							
A. Written Communication		CHE 121 w/CHE121L OR PHS 111 OR							
ENG 101 AND ENG 102	6	PHS 112 OR PHS 201 OR PHS 211							
B. Oral Communication		C. Arts and Humanities							
COM 14(Speech Communication	3	1. History	3						
C. Quantitative Reasoning		HIS 111 OR HIS 112 OR HIS 221 OR							
MAT 100 OR MAT 101 OR	3 or 4	HIS 222 OR HUM399A OR POL 251							
MAT 120 OR MAT 122 OR MAT 235		2. Creative Works	3						
III. Broadened Perspectives		ART 110 OR ART 201 OR ART 234 OR							
A. Behavioral Sciences		ENG 225 OR ENG 226 OR ENG 235 OR							
BIB/FAM 230 OR PSY 210 OR	3	ENG 236 OR ENG 245 OR ENG 246 OR							
SOC 241 OR SWK 251		ENG 299A/399A OR MUS 110 OR MUS 2							
		PHI 243 OR PHI 245 OR PHI 246 OR							
Complete course names and descri	ntions	THE 160 OR THE 265 OR THE 299A/399							
for the liberal arts core requiremen		3. Humanities Capstone	3						
·		BIB/HUM 495							
located in the <i>Undergraduate Cata</i>	alog .								