COLLEGE OF ARTS AND SCIENCES

2013-14 PHYSICAL SCIENCE (PRE-ENGINEERING) BS DUAL DEGREE PLAN

FIRST YEAR - FRESHMAN

				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 & Calculus I[3]	5
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
ACA	150	University Foundations[1]	1	BIB	122	Acts of the Apostles[1]	2
BIB	121	Life of Christ[1]	2				
			16				**17**

SECOND YEAR - SOPHOMORE

Fall Semester				Spring Semester			
Dept	**Crse#**	**Course Name**	**Hrs**	**Dept**	**Crse#**	**Course Name**	**Hrs**
PHS	211	Physics for Sci. & Engrs. I[2,3]	4	PHS	212	Physics for Sci. & Engr. II[3]	4
MAT	223	Analytics & Calculus II[3]	4	MAT	224	Analytics & Calculus III[3]	4
CIS	170	Intro. to Computer Prog.	3	CIS	171	Computers & Programming I[3]	3
ENG		Literature[1]	3	HIS		History[1]	3
PEA	100	Lifetime Wellness[1]	1	PEA		PEA Activity[1]	1
BIB		Bible	2	BIB		Bible	2
			17				**17**

THIRD YEAR - JUNIOR

Fall Semester				Spring Semester			
Dept	**Crse#**	**Course Name**	**Hrs**	**Dept**	**Crse#**	**Course Name**	**Hrs**
ENS	231	Engr. Mechanics I: Statics[3]	3	ENS	232	Engr. Mechanics II: Dynamics[3]	3
COM	140	Speech Communication[1]	3	MAT	345	Differential Equations[3]	3
		Behavioral Science[1]	3	BIO		Biology[1]	3
		Fine Arts[1]	3			Humanities[1]	3
BIB	346	Foundations of Faith[1]	3	BIB	495	Values in Human Thought[1]	3
		Elective[4]	3			Elective[4]	3
			18				**18**

[1]General Education Requirement

[2]General Education Course Requirements in *Undergraduate Catalog*

[3]Course has prerequisite. See corresponding *Undergraduate Catalog*

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

ADDITIONAL ITEMS RELATED TO THE MAJOR

- General education courses should be chosen to satisfy FHU and engineering school requirements.
- ENS 181 may be recommended for Civil and Chemical Engineering, check with engineering school.
- 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 registration.
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.

2013-14 Undergraduate General Education Course Requirements

I. Biblical Values	
A. Bible	
BIB 121 & 122 & 346 OR 446	7
B. Values	
HUM 495/BIB 495	3
II. Basic Skills	
A. Written Communication	
ENG 101 **AND** ENG 102	6
B. Oral Communication	
COM 140	3
C. Quantitative Reasoning	
MAT 100 **OR** MAT 101 **OR** MAT 120 **OR** MAT 122	3
D. University Foundations	
ACA 150	1
E. Physical Fitness	
PEA 100 **AND** Any PEA course	2
Complete course names and descriptions for the General Education Course Requirements are located in the Undergraduate Catalog.	

III. Broadened Perspectives	
A. Behavioral Sciences	
BIB/FAM/SOC 230 **OR** PSY 210 **OR** SOC 241 **OR** SOC 251	3
B. Natural Sciences	
BIOLOGY: BIO 100 **OR** BIO 110 **OR** BIO 111 **OR** BIO 112 **OR** BIO 211	3
CHEMISTRY OR PHYSICAL SCI: CHE 111 **OR** CHE 121 **OR** PHS 111 **OR** PHS 112 **OR** PHS 201 **OR** PHS 211	3
C. Arts and Humanities	
HISTORY: HIS 111 **OR** HIS 112 **OR** HIS 221 **OR** HIS 222	3
LITERATURE: ENG 225 **OR** ENG 226 **OR** ENG 235 **OR** ENG 236 **OR** ENG 245 **OR** ENG 246	3
FINE ARTS: ART 110 **OR** ART 234 **OR** MUS 110 **OR** MUS 214 **OR** THE 160 **OR** THE 265	3
HUMANITIES: HUM 299A **OR** HUM 310 **OR** HUM 320 **OR** PHI 243 **OR** PHI 245 **OR** PHI 246 **OR** POL 231 **OR** POL 251 **OR** FRE 111 **OR** FRE 120 **OR** SPA 131	3