## BSE ENGINEERING (HUMANITARIAN CONCENTRATION)

## B.S.E. Degree Requirements for a Major in Engineering (Humanitarian Concentration)

(Humanitarian Concentration)			
Code	Title	Hours	
<b>Required Courses</b>			
Minimum 124 hours	including the following:		
Literature and Writing	1		
ENG 1310	Research Writing: Writing and Academic Inquiry Seminars	3	
GTX 2301	Intellectual Traditions of the Ancient World : Literature and Thought	3	
or GTX 2302	Medieval Intellectual Traditions: Literature an Thought in Context	d	
PWR 3300	Technical Writing	3	
Religion			
REL 1310	The Christian Scriptures	3	
REL 1350	The Christian Heritage	3	
Foreign Language and	d Culture		
	the Foreign Language and Culture ECS Majors. Second-level proficiency must be language is chosen.	3	
Other Requirements			
PSC 1387	The U.S. Constitution, Its Interpretation, and the American Political Experience	3	
or ENG 2301	British Literature		
EGR 2108	Engineering Economics	1	
EGR 3305	Social and Ethical Issues in Engineering	3	
EGR 1101	Engineering New Student Experience	1	
	y two LF 11XX courses. ECS 2101 and urses may fulfill one of the Lifetime Fitness	2	
Chapel: Two Semest	ters	0	
General Elective Cre	dit	1	
Mathematics and Bas	sic Sciences		
CHE 1301	Basic Principles of Modern Chemistry I	3	
MTH 1321	Calculus I	3	
MTH 1322	Calculus II	3	
MTH 2311	Linear Algebra	3	
MTH 2321	Calculus III	3	
MTH 3325	Ordinary Differential Equations	3	
STA 3381	Probability and Statistics	3	
One additional "3000 class	0" or "4000" level approved math or science	3	
PHY 1420	General Physics I	4	
PHY 1430	General Physics II	4	
Engineering Major (H	umanitarian)		
EGR 1301	Introduction to Engineering	3	
EGR 1302	Introduction to Engineering Analysis	3	

Total Hours		124
towards the major.		
	onal courses from the groups above. etter in all of the Engineering hours counted	6
ECO 3355	Introduction to the Economics of Poverty and Discrimination	
MGT 4353	Social Entrepreneurship and Economic Development	
	e from the following group	3
REL 4340	Christian Missions	
ENV 4350	Development and Indigenous Peoples	
REL 3345	World Religions	
REL 3382	Cross-Cultural Ministry	
Choose one course from the following group		3
ENV 4345	Water Management	
ENV 4310	World Food Problems	
ENV 3333	Watershed Assessment	
	e from the following group	3
EGR 3315	Ethics of International Service	3
	irements (Humanitarian)	
	el ELC/ME/BME/EGR Elective	3
ME 4360	Renewable Energy Devices	3
ME 4305	Sustainable Engineering	3
Engineering Elective	, ,	
CSI 1430	Introduction to Computer Science I with Laboratory	
CSI 1401	Introduction to Programming I	
& ELC 2137	and Digital Logic Design Laboratory	
ELC 2337	Digital Logic Design	
Select one of the fo	bllowing:	4
ELC 3335	Signals and Systems	3
& ELC 2130	and Electrical Circuit Laboratory	
ELC 2330	Electrical Circuit Theory	4
ME 3420	Instrumentation and Measurements	4
ME 2345	Thermodynamics	3
ME 2321	Dynamics	3
ME 2320	Engineering Design II Statics	3
FGB 4390	Engineering Design II	3