## 1

## BSE ENGINEERING (ENERGY AND ENVIRONMENT CONCENTRATION)

## B.S.E. Degree Requirements for a Major in Engineering (Energy and Environment Concentration)

Hours

Title

Code

-	1100	
Required Courses		
	ncluding the following:	
Literature and Writing		
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 and Thought in Context	nd
PWR 3300	Technical Writing	3
Religion		
REL 1310	The Christian Scriptures	3
REL 1350	The Christian Heritage	3
Foreign Language and	Culture	
	he Foreign Language and Culture ICS Majors. Second-level proficiency must be anguage 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
-	two LF 11XX courses. ECS 2101 and urses may fulfill one of the Lifetime Fitness	2
Chapel: Two Semeste	ers	0
General Elective Cred	lit	1
Mathematics and Basi	ic 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	" or "4000" level approved math or science	3
PHY 1420	General Physics I	4
PHY 1430	General Physics II	4
Engineering Major (En	ergy and Environment)	
EGR 1301	Introduction to Engineering	3
EGR 1302	Introduction to Engineering Analysis	3

ENV 3387 Environmental Chemistry ENV 4345 Water Management ENV 4365 The Environment and Energy ANT 4321 Climate Anthropology A grade of "C" or better in all of the Engineering hours counted towards the major.  Total Hours	3 3 3 3 3
ENV 4345 Water Management ENV 4365 The Environment and Energy ANT 4321 Climate Anthropology	3 3
ENV 4345 Water Management ENV 4365 The Environment and Energy	3 3
ENV 4345 Water Management	3
·	3
ENV 3387 Environmental Chemistry	
• •	3
ENV 3316 Introduction to Air Quality	
CHE 1302 Basic Principles of Modern Chemistry II	3
Concentration Requirements (Energy and Environment)	
EGR 4361 Conventional & Alternative Energy Systems	3
ME 4360 Renewable Energy Devices	3
ME 4305 Sustainable Engineering	3
Engineering Elective Requirements (Energy and Environment)	
CSI 1430 Introduction to Computer Science I with Laboratory	
CSI 1401 Introduction to Programming I	
ELC 2337 Digital Logic Design & ELC 2137 and Digital Logic Design Laboratory	
Select one of the following:	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 Statics	3
EGR 4390 Engineering Design II	3
EGR 3380 Engineering Design I	3