



LEBANESE AMERICAN UNIVERSITY

PLANNING SHEET / PROGRAM OF COURSES

Program in strength as of **FALL 2006** (200710) term

CHARTERED IN THE STATE OF NEW YORK

SCHOOL OF ENGINEERING AND ARCHITECTURE

Program **CIVIL ENGINEERING (BE)**

Emphasis / Track ----

Minimum credits for graduation **154**

ID#	_____		
Name	_____		
	Last	First	Father
Tel#	Nationality	_____	

Advisor	_____
Basis for Admission	_____
Admission Conditions	_____
Date	_____

COURSE	TITLE	CR	PREREQUISITE/S	TERM	GRADE
PRE-FRESHMAN AND FRESHMAN ENGLISH			<i>Required [YES /NO]</i>		
ENG009	Remedial English ¹	0	_____	_____	_____
ENG101	English I ²	3	_____	_____	_____
ENG102	English II ³	3	_____	_____	_____

LIBERAL ARTS CORE CURRICULUM – 13 CREDITS					
ARA2--/3--	Arabic Language/Literature ⁵	3			
COE201	Computer Proficiency	1			
ENG202	Sophomore Rhetoric ⁴	3			
ENG203	Fund. Oral Communication	3			
HLT201	Basic Health	1			
PED2--	Physical Education ⁶	1			
ETH201	Moral Reasoning	1			

COURSE	TITLE	CR	PREREQUISITE/S	TERM	GRADE
OTHER CONDITIONAL REQUIREMENTS - CREDITS					

LIBERAL ARTS ELECTIVES – 21 CREDITS					
<u>Sciences & Quantitative Reasoning (3)</u>					
GNE331	Probability & Statistics	3			
<u>Social Sciences (3)</u>					
INE320	Engineering Economy I	3			
<u>Philosophy, Religion, History (3)</u>					
		3			
<u>Literature (3)</u>					
		3			
<u>Arts (3)</u>					
		3			
<u>Additional requirements⁷ (6)</u>					
		3			
		3			

¹ Prerequisites: EEE score between 500 and 549 or computer-based TOEFEL between 193 and 230 or its equivalent.

² Prerequisites: ENG009 or EEE score between 550 and 599 or computer-based TOEFEL between 233 and 260 or its equivalent.

³ Prerequisites: ENG101 or EEE score between 600 and 649 or computer-based TOEFEL between 263 and 293 or its equivalent.

⁴ Prerequisites: ENG102 or EEE score 650 and above or computer-based TOEFEL 297 and above or its equivalent.

⁵ Course may be substituted with any SOPHOMORE or HIGHER level course related to the Middle East for students exempted from Arabic by the Admissions' Council, with prior approval.

⁶ No more than 1 additional PED course is allowed.

⁷ The additional 6 credits of Liberal Arts Electives could be taken from the following: **Sciences & Quantitative Reasoning** (3 or 6 credits), **Social Sciences** (3 or 6 credits), **Philosophy-Religion & History** (3 or 6 credits), **Literature** (3 credits) OR **Arts** (3 credits).

MATHEMATICS & SCIENCE REQUIREMENTS– 15 CREDITS									
CHM201	Chemical Principles	3			MTH304	Differential Equations*	3		
MTH201	Calculus III*	3			MEE241	Dynamics*	3		
MTH206	Calculus IV*	3							
GENERAL ENGINEERING REQUIREMENTS– 24 CREDITS									
COE211	Computer Programming	4			INE402	Optimization	3		
GNE301	Professional Communication	2			MEE220	Engineering Graphics	4		
GNE333	Engineering Analysis I	3			MEE401	Energy Systems	2		
CIE498	Professional Experience-Civil	6							

* CIVIL ENGINEERING REQUIREMENTS – 81 CREDITS									
CIE200	Statics	3			CIE426	Environmental Eng'g II	3		
CIE202	Mechanics of Materials	3			CIE427	Environmental Eng'g II-SOFT	1		
CIE302	Structural Analysis I	3			CIE444	Soil Mechanics	3		
CIE303	Structural Analysis I-SOFT	1			CIE445	Soil Mechanics-LAB	1		
CIE304	Stress Analysis	3			CIE446	Foundation Engineering	3		
CIE305	Stress Analysis-LAB	1			CIE447	Geotechnical Eng'g-SOFT	1		
CIE306	Concrete Structures I	3			CIE460	Transportation Engineering I	3		
CIE307	Concrete Structures I-SOFT	1			CIE461	Transportation Eng'g I-SOFT	1		
CIE308	Construction Materials	3			CIE580	Construction Management	3		
CIE309	Construction Materials-LAB	1			CIE581	Construction Mgt-SOFT	1		
CIE320	Fluid Mechanics	3			CIE601	Project I	3		
CIE321	Fluid Mechanics-LAB	1			CIE---	Technical Elective	3		
CIE322	Hydraulics	3			CIE---	Technical Elective	3		
CIE323	Hydraulics-SOFT	1			CIE---	Technical Elective	3		
CIE360	Surveying	3			CIE---	Technical Elective	3		
CIE400	Steel Structures	3			CIE---	Technical Elective	3		
CIE424	Environmental Eng'g I	3			CIE---	Technical Elective	3		
CIE425	Environmental Eng'g I-LAB	1							

TECHNICAL ELECTIVES									
CIE500	Adv.Mechanics of Materials	3			CIE583	Packaging Engineering	3		
CIE510	Finite Element Method I	3			CIE584	Quality Management Systems	3		
CIE511	Structural Analysis II	3			CIE585	Risk & Natural Hazard Mgt	3		
CIE512	Concrete Structures II	3			CIE600	Topics in Civil Engineering ⁸	3		
CIE520	Solid Waste Management	3			CIE602	Project II	3		
CIE521	Hydrology	3			-----	Or any other approved			
CIE560	Transportation Engineering II	3				technical elective by the Dept.			
CIE582	Infrastructure Management	3							

* **C** is the **passing grade** for **all CIE** courses and in **all courses with a *** appended to the title.

⁸**CIE600** could be taken **more than once** for credit when topics differ – Subtitle Required.

Note: Major GPA (MGPA) requirement for graduation 2.00

The grades obtained for courses in all the requirements blocks [preceded with a *] are counted in the computation of the MGPA