

**PROGRAM OF STUDY FOR A BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING**

REQUIRED CORE COURSES					
AUB COURSE CODE	COURSE	COURSE NAME	PREREQUISITE	ECTS	GRADES
CIVE 210	CIVE 121	Statics/Dynamics		6	
EECE 230	CSEN 101	Introduction to Programming		6	
	INDE 100	Introduction to Industrial Engineering	Considered as UNDERSTANDING OURSELVES: SOCIETIES AND INDIVIDUALS	0	
INDE 301	INDE 200	Engineering Economy		6	
INDE 302	INDE 210	Operations Research I	Prerequisite: MATH 201 OR MATH 202	6	
INDE 303	INDE 211	Operations Research II	Prerequisite: STAT 101	6	
INDE 320	INDE 220	Work Measurement and Methods Engineering	Prerequisite: STAT 101	6	
INDE 402	INDE 300	Facilities Planning and Material Handling	Prerequisite: INDE 210, INDE 211	6	
INDE 411	INDE 301	Introduction to Project Management	Prerequisite: INDE 210, INDE 211	6	
INDE 421	INDE 302	Human Factors Engineering	Prerequisite: INDE 220	6	
INDE 430	INDE 303	Statistical Quality Control	Prerequisite: STAT 101	6	
INDE 431	INDE 310	Production Planning and Inventory Control	Prerequisite: INDE 210, INDE 211	6	
INDE 504	INDE 311	Discrete Event Simulation	Prerequisite: INDE 211	6	
INDE 410	INDE 330	Engineering Ethics	Considered as UNDERSTANDING OUR ROLE IN THE WORLD: OUR VALUES	0	
INDE 412	INDE 340	Engineering Entrepreneurship	Prerequisite: INDE 200	4	
INDE 513	INDE 401	Information Systems	CSEN 101	6	
INDE 535	INDE 410	Data Analytics for Industrial Engineering	STAT 101, INDE 200, INDE 210, INDE 211, INDE 311.	6	
INDE 500	INDE 450	Approved Experience	Min 160 ECTS completed	0	
INDE 501	INDE 460	Final Year Project I	Prerequisite: COMPLETION OF THIRD YEAR IN IE REQ. FALL	6	
INDE 502	INDE 461	Final Year Project II	Prerequisite: INDE 460, SPRING	6	
MECH 421	MECH 300	Manufacturing Processes I		6	
<b>CREDITS:</b>				<b>106</b>	
REQUIRED BASIC SCIENCE & MATH COURSES					
MATH 202	MATH 101	Differential Equations	Prerequisite: MATH 100	6	
MATH 218/219	MATH 201/202	Linear Algebra	Students cannot receive credit for both MATH 202 and MATH 201.	6	
MATH 251	MATH 203	Numerical Computing	Prerequisites: CSEN 100 and MATH 100. Prerequisite or Co-requisite: MATH 201. Students cannot receive credit for both MATH 203 and CSEN 420.	6	
STAT 230	STAT 101	Introduction to Probability and Random Variables	Prerequisite: MATH 100. Students who complete STAT 101 cannot receive credit for STAT 100	6	
PHYS 210	PHYS 100	Introductory Physics II	Pre- or Corequisite: MATH 100	6	
CHEM 201/202	CHEM 100/101	Chemistry Principals/ intro to environmental chem.		6	
<b>CREDITS:</b>				<b>36</b>	
REQUIRED BASIC BUSINESS COURSES					
ACCT 210	BBAC 100	Financial Accounting	This course is offered through the Faculty of Business	6	
MNGT 215	BBAC 201	Fundamentals of Management and Organizational Behavior	This course is offered through the Faculty of Business	6	
<b>CREDITS:</b>				<b>12</b>	
<b>TOTAL MAJOR REQUIREMENT CREDITS</b>				<b>144</b>	
GENERAL EDUCATION REQUIREMENTS					
UNDERSTANDING OUR COMMUNICATION					
AUB COURSE CODE	COURSE	COURSE NAME	NOTE	ECTS	GRADE
ENGL 203	ENGL 100	Academic English	Academic Communication in English I	6	
ENGL 206	ENGL 102	Technical English	Academic Communication in English II	6	
	TBD		Foreign Language Communication in Arabic OR Greek	6	
			Writing in the Discipline (fulfilled through an ILA-Designated Course)	0	
<b>CREDITS</b>				<b>18 ECTS</b>	
UNDERSTANDING THE WORLD					
AUB COURSE CODE	COURSE	COURSE NAME	NOTE	ECTS	GRADE
BIOL 210	BIOL 101	Human Biology	The Earth and Planetary Systems or The Living World	6	
	TBD		The Earth and Planetary Systems or The Living World OR Quantitative Reasoning	6	
	TBD		The Earth and Planetary Systems or The Living World OR Quantitative Reasoning	6	
MATH 201	MATH 100	Calculus and Analytic Geometry III	Quantitative Reasoning	6	
<b>CREDITS</b>				<b>24 ECTS</b>	
UNDERSTANDING OURSELVES (to include 6 ECTS in Greek Studies) AT LEAST TWO FROM EACH CATEGORY					
AUB COURSE CODE	COURSE	COURSE NAME	NOTE	ECTS	GRADE
	TBD		Cultures and Histories	6	
	TBD		Cultures and Histories	6	
	TBD		Cultures and Histories OR Societies and Individuals	6	
	INDE 100	Introduction to Industrial Engineering	Societies and Individuals	6	
ECON 211	ECON 101	Principles of Microeconomics	Societies and Individuals	6	
<b>CREDITS</b>				<b>30 ECTS</b>	
UNDERSTANDING OUR ROLE IN THE WORLD					
AUB COURSE CODE	COURSE	COURSE NAME	NOTE	ECTS	GRADE
INDE 410	INDE 330	Engineering Ethics	Our Values	6	
	TBD		Our Engagement	6	
<b>CREDITS</b>				<b>12 ECTS</b>	
GENERAL EDUCATION FREE ELECTIVE					
AUB COURSE CODE	COURSE	COURSE NAME	NOTE	ECTS	GRADE
	TBD		Any General Education course	6	
THEMATIC REQUIREMENTS					
		First-Year Student Experience (0 ECTS Requirement)			
		Beirut Residency (0 ECTS Requirement)			
		Social Inequalities (6 ECTS fulfilled through courses designated by ILA as such)			
		History of Ideas (6 ECTS fulfilled through courses designated by ILA as such)			
<b>TOTAL LIBERAL ARTS CREDITS</b>				<b>90 ECTS</b>	
<b>TOTAL CREDITS FOR GRADUATION</b>				<b>244 ECTS</b>	