Degree Requirements by Intake Year

Note: These degree requirements apply according to the student's original year of admission (intake cohort). Students must follow the requirements assigned to their intake year, even if later cohorts follow revised requirements.

PROGRAM OF STUDY FOR A BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING (2023–24 Intake: Year 1 Cohort)

REQUIRED CORE COURSES

OLD COURSE CODE	COURSE	COURSE NAME	PREREQUISITES	ECTS	GRADE
	CSEN 100	Introduction to Computer Science and Engineering		6	
CMPS 101	CSEN 101	Introduction to Programming		6	
	CSEN 112L	Programming Laboratory	Prereq or coreq: CSEN 101	3	
	CSEN 111	Discrete Math		6	
CMPS 102	CSEN 201	Object Oriented Programming	Prered or coreq: CSEN 112L	6	
	CSEN 203	Digital Systems Design		6	
	CSEN 203L	Digital Systems Design Laboratory	Prered or coreq: CSEN 203	3	
CMPS 221	CSEN 211	Computer Organization and Design		6	
	CSEN 214	Algorithms and Data Structures		6	
CMPS 340	CSEN 301	Operating Systems	Prereq: CSEN 211	6	
CMPS 315	CSEN 302	Theory of Computation	Prereq: CSEN 214	6	
CMPS 342	CSEN 311	Computer Networks		6	
CMPS 244	CSEN 312	Database Systems	Prereq: CSEN 101	6	
CMPS 271	CSEN 313	Software Engineering	Prereq: CSEN 201	6	
	CSEN 401	Artificial Intelligence	Prereqs: CSEN 101, STAT 101	6	
	CSEN 490	Internship	4th year standing	6	
	CSEN 499	Capstone Project/Thesis	4th year standing	6	
			CREDITS	90 ECTS	

REQUIRED ELECTIVES

				ECTS	GRADE
Core CSE Elective 1				6	
Core CSE Elective 2				6	
Core CSE Elective 3				6	
Core CSE Elective 4					
Core CSE Elective 5				6	
General/Technical Elective				6	
General/Technical Elective				6	
			CREDITS	42	

REQUIRED MATH/STAT COURSES

				ECTS	GRADE
MATH 100	Calculus and Analytic Geometry III			6	
MATH 201	Elementary Linear Algebra with Applications	Students cannot receive credit for both MATH 202 and MATH 201			
STAT 101	Introduction to Probability and Random Variables	Prereq: MATH 100. Students who complete STAT 101 cannot receive credit for STAT 100	6	
			CREDITS	18	
			TOTAL MAJOR REQUIREMENTS CREDITS	156	

GENERAL EDUCATION REQUIREMENTS

UNDERSTANDING OUR COMMUNICATION

COURSE	COURSE NAME	NOTE	ECTS	GRADE
ENGL 100	Academic English	Academic Communication in English I	6	
ENGL 101	Advanced Academic English	Prereq: ENGL 100. 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	
		CREDITS	18 ECTS	

UNDERSTANDING THE WORLD

COURSE	COURSE NAME	NOTE	ECTS	GRADE
PHYS 100	Introductory Physics II	The Earth and Planetary Systems or The Living World, Pre-req: MATH 100	6	
PHYS 104	Electricity and Magnetism	The Earth and Planetary Systems or The Living World OR Quantitative Reasoning	6	
TBD		Quantitative Reasoning	6	
TBD		The Earth and Planetary Systems or The Living World OR Quantitative Reasoning	6	
		CREDITS	24 ECTS	

UNDERSTANDING OURSELVES (to include 6 ECTS in Greek Studies) AT LEAST TWO FROM EACH CATEGORY

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	
TBD		Societies and Individuals	6	
TBD		Societies and Individuals	6	
		CREDITS	30 ECTS	

UNDERSTANDING OUR ROLE IN THE WORLD

COURSE	COURSE NAME	NOTE	ECTS	GRADE
PHIL 130	Ethics	Our Values	6	
TBD		Our Engagement	6	
		CREDITS	12 ECTS	

GENERAL EDUCATION FREE ELECTIVE

COURSE	COURSE NAME	NOTE	ECTS	GRADE
TBD		Any General Education course	6	
		CREDITS	6 ECTS	

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)

TOTAL LIBERAL ARTS CREDITS	90 ECTS
TOTAL CREDITS FOR GRADUATION	246 ECTS

Note: These degree requirements apply to students admitted in 2024–25 or later and follow the revised curriculum requirements from Year 2 onward.

PROGRAM OF STUDY FOR A BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING (2024 - 26 Intake: Year 2 Onwards)

REQUIRED CORE COURSES

OLD COURSE CODE	COURSE	COURSE NAME	PREREQUISITES	ECTS	GRADE
	CSEN 100	Introduction to Computer Science and Engineering		6	
CMPS 101	CSEN 101	Introduction to Programming		6	
	CSEN 112L	Programming Laboratory	Prereq or coreq: CSEN 101	3	
	CSEN 111	Discrete Math		6	
CMPS 102	CSEN 201	Object Oriented Programming	Prered or coreq: CSEN 112L	6	
	CSEN 203	Digital Systems Design		6	
	CSEN 203L	Digital Systems Design Laboratory	Prered or coreq: CSEN 203	3	
CMPS 221	CSEN 211	Computer Organization and Design		6	
	CSEN 214	Algorithms and Data Structures		6	
CMPS 340	CSEN 301	Operating Systems	Prereq: CSEN 211	6	
CMPS 315	CSEN 302	Theory of Computation	Prereq: CSEN 214	6	
CMPS 342	CSEN 311	Computer Networks		6	
CMPS 244	CSEN 312	Database Systems	Prereq: CSEN 101	6	
CMPS 271	CSEN 313	Software Engineering	Prereq: CSEN 201	6	
	CSEN 401	Artificial Intelligence	Prereqs: CSEN 101, STAT 101	6	
	CSEN 490	Internship	4th year standing	6	
	CSEN 499	Capstone Project/Thesis	4th year standing	6	
			CREDITS	**96 ECTS**	

REQUIRED ELECTIVES

				ECTS	
CSEN 420	Numerical Computing		Prereq: MATH 201. Cross-listed as MATH 203.	6	
Core CSE Elective 2				6	
Core CSE Elective 3				6	
Core CSE Elective 4					
Core CSE Elective 5				6	
General/Technical Elective				6	
General/Technical Elective				6	
			CREDITS	**42**	

REQUIRED MATH/STAT COURSES

				ECTS	
MATH 100	Calculus and Analytic Geometry III			6	
MATH 201	Elementary Linear Algebra with Applications		Students cannot receive credit for both MATH 202 and MATH 201		
STAT 101	Introduction to Probability and Random Variables		Prereq: MATH 100. Students who complete STAT 101 cannot receive credit for STAT 100	6	
			CREDITS	**18**	
			TOTAL MAJOR REQUIREMENTS CREDITS	**156**	

GENERAL EDUCATION REQUIREMENTS

UNDERSTANDING OUR COMMUNICATION

COURSE	COURSE NAME	NOTE	ECTS	GRADE
ENGL 100	Academic English	Academic Communication in English I	6	
ENGL 101	Advanced Academic English	Prereq: ENGL 100. 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	
		CREDITS	**18 ECTS**	

UNDERSTANDING THE WORLD

COURSE	COURSE NAME	NOTE	ECTS	GRADE
PHYS 100	Introductory Physics II	The Earth and Planetary Systems or The Living World, Pre-req: MATH 100	6	
PHYS 104	Electricity and Magnetism	The Earth and Planetary Systems or The Living World OR Quantitative Reasoning	6	
MATH 101	Differential Equations	Prereq: MATH 100. 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	
		CREDITS	**24 ECTS**	

UNDERSTANDING OURSELVES (to include 6 ECTS in Greek Studies) AT LEAST TWO FROM EACH CATEGORY

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	
TBD		Societies and Individuals	6	
TBD		Societies and Individuals	6	
		CREDITS	**30 ECTS**	

UNDERSTANDING OUR ROLE IN THE WORLD

COURSE	COURSE NAME	NOTE	ECTS	GRADE
PHIL 130	Ethics	Our Values	6	
TBD		Our Engagement	6	
		CREDITS	**12 ECTS**	

GENERAL EDUCATION FREE ELECTIVE

COURSE	COURSE NAME	NOTE	ECTS	GRADE
TBD		Must be The Earth and Planetary Systems or The Living World course	6	
		CREDITS	**6 ECTS**	

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)		
TOTAL LIBERAL ARTS CREDITS	**90 ECTS**	
TOTAL CREDITS FOR GRADUATION	**246 ECTS**	