



**L E B A N E S E  
I N T E R N A T I O N A L  
U N I V E R S I T Y**

**Major Title:** Bachelor of Computer Science  
**Major Code:** BCSCI  
**Level:** underGraduate  
**Number Of Credits:** 99  
**Version:** 4  
**Version**  
**Date:** 2025-10-06  
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## Bachelor of Computer Science (BCSCI)

### Major Electives

Code	Title	Credits	Prerequisites	Corequisites
	Major Elective	3		
	Major Elective	3		
	Major Elective	3		
Total		9		

### Core Requirements

Code	Title	Credits	Prerequisites	Corequisites
CSCI205	Computer Science Overview	3	ENGL101	
CSCI250	Introduction to Programming	3	CSCI205-CSCI200	ENGL101-CSCI250L
CSCI250L	Introduction to Programming Lab	1	CSCI205-CSCI200	ENGL101-CSCI250
CSCI300	Intermediate Programming with Objects	3	CSCI250L-CSCI250	CSCI300L
CSCI300L	Intermediate Programming with Objects Lab	1	CSCI250	CSCI300
CSCI335	Database Systems	3	CSCI250	
CSCI342	Fundamentals of Networking Technologies	3	CSCI250	
CSCI373	Robotics Design & Coding	3	CSCI250	
CSCI390	Web Programming	3	CSCI335-CSCI300	
MATH210	Calculus II	3	MATH161-MATH160	
MATH225	Linear Algebra with Applications	3	MATH160-ENGL051-MATH161	
MATH260	Discrete Mathematics	3	MATH225	
PHYS205	General Physics for Scientists	3	PHYS161	
Total		35		

### Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
CSCI378	Data Structures and Algorithms	3	CSCI300	
CSCI380	Software Engineering	3	ENGL201-CSCI335	
CSCI405	Computer Organization and Architecture	3	CSCI300	
CSCI430	Operating Systems	3	CSCI300	CSCI430L
CSCI430L	Operating Systems Lab	1	CSCI300	CSCI430
CSCI450	Theory of Computation	3	CSCI378-MATH260	
CSCI451	Parallel Processing	3	CSCI430	
CSCI475	Artificial Intelligence	3	CSCI378	
CSCI490	Information System Development	3	CSCI390-CSCI380	
CSCI499	Internship	3	CSCI430	
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210-ENGL201	
MATH375	Numerical Methods for Scientists & Engineers	3	MATH225	
Total		34		

### General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CSCI200	Introduction to Computers	3	ENGL051	
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL201	Composition and Research Skills	3	ENGL151	
ENGL251	Communication Skills	3	ENGL201	
Total		15		

### General Education Electives

Code	Title	Credits	Prerequisites	Corequisites
Set A	General Education Electives	3		
Set A	General Education Electives	3		
Total		6		

### Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
CSCI351	Concepts of Programming Languages	3	CSCI300	
CSCI352	Introduction to Cybersecurity	3	CSCI342	
CSCI361	Introduction to Cryptography	3	CSCI300	
CSCI372	Natural Language Processing	3	CSCI300	
CSCI400	Systems Security	3	CSCI430-CSCI300	
CSCI401	Introduction to Data science	3	MATH310-CSCI250	
CSCI410	Mobile Application	3	CSCI300-CSCI335	
CSCI426	Web Programming Advanced	3	CSCI390	
CSCI441	Machine Learning	3	CSCI378	
CSCI443	Game Development	3	CSCI378	
CSCI455	Introduction to Data mining	3	MATH310-CSCI300	
CSCI457	Deep Learning	3	CSCI441	
CSCI458	Essentials of DevOps	3	CSCI380	
CSCI459	Digital forensics	3	CSCI352	
CSCI460	Blockchain Fundamentals	3	CSCI335	

### General Education Electives

Code	Title	Credits	Prerequisites	Corequisites
ARAB220 (Set A)	Creative Writing in Arabic	3		
ARTS204 (Set A)	Introduction to Theater	3		
ARTS215 (Set A)	History of Arts	3		
BACC200 (Set A)	Financial Accounting	3		
BECO210 (Set A)	Introduction to Microeconomics	3		
BECO260 (Set A)	Introduction to Macroeconomics	3		
BMED210 (Set A)	Introduction to Community Health	3		
BMTH210 (Set A)	Business and Managerial Math	3		
BSTA205 (Set A)	Introduction to Business Statistics	3		
COMM200 (Set A)	Introduction to Communication Studies	3		
COMM205 (Set A)	Introduction to Western Civilization	3		
COMM220 (Set A)	Rhetoric & Persuasion	3		
CSCI205 (Set A)	Computer Science Overview	3	ENGL101	

ENVR200 (Set A)	Environmental Science	3		
GEE200 (Set A)	General Topics in Cooperation and Collaboration	3		
GEE201 (Set A)	General Topics in Communication	3		
GEE203 (Set A)	General Topics in Culture and Diversity	3		
GEE204 (Set A)	General Topics in Critical Thinking and Problem Solving	3		
GEE205 (Set A)	General Topics in Quantitative and Qualitative Literacy	3		
HUMN200 (Set A)	Community Service	3		
HUMN215 (Set A)	Introduction to Civic Society	3		
LANG200 (Set A)	Beginners Russian	3		
LANG221 (Set A)	Introduction To Italian	3		
LANG222 (Set A)	Introduction To French	3		
LANG225 (Set A)	Introduction To German	3		
LANG226 (Set A)	Introduction to Portuguese	3		
NUTR200 (Set A)	Nutrition and Health	3		
PHED200 (Set A)	Sports and Health	3		
PHIL200 (Set A)	Introduction to Philosophy	3		
PHIL205 (Set A)	Introduction to Ethics	3		
PHIL210 (Set A)	World Religions	3		
POLS205 (Set A)	World Current Affairs	3		
POLS230 (Set A)	Lebanese Labor Law	3		
POLS240 (Set A)	The Arab Israeli Conflict	3		
SPAN200 (Set A)	Introduction to Spanish	3		
SSCI200 (Set A)	Introduction to Sociology	3		
SSCI205 (Set A)	Introduction to Psychology	3		
SSCI215 (Set A)	Introduction to Music	3		