

I Year  
(Total ECTS 62)

Software Engineering required courses	Computer Networks required courses	Management of Information Systems Required courses	IT Management required courses
Mathematics	Mathematics	Mathematics	Mathematics
Introduction to Programming	Introduction to Programming	Introduction to Programming	Introduction to Programming
Computer applications 1	Computer applications 1	Computer applications 1	Computer applications 1
Calculus	Calculus	Calculus	Calculus
Object Programming	Object Programming	Business module 1	Business module 1
Computer systems	Computer systems	Computer systems	Computer systems
Internship	Internship	Internship	Internship
Elective courses in Software Engineering - students choose 2 of the following	Elective courses in Computer Networks – students choose 2 of the following	Elective courses in Management of Information Systems – students choose 2 of the following	Elective courses in IT Management – students choose 2 of the following
Computer ethics and responsibility	Computer ethics and responsibility	Computer ethics and responsibility	Computer ethics and responsibility
Introduction to multimedia	Introduction to multimedia	Introduction to multimedia	Introduction to multimedia
Business module 1	Business module 1	Object Programming	Object Programming
Elective courses at university level in Software Engineering – students choose 2 of the following	Elective courses at university level in Computer Networks – students choose 2 of the following	Elective courses at university level in Management of Information Systems – students choose 2 of the following	Elective courses at university level in IT Management – students choose 2 of the following
Computer applications 2	Computer applications 2	Computer applications 2	Computer applications 2
Composition 1	Composition 1	Composition 1	Composition 1
Composition 2	Composition 2	Composition 2	Composition 2

II YEAR  
(Total ECTS 62)

Software Engineering required courses	Computer Networks required courses	Management of Information Systems Required courses	IT Management required courses
Operating systems	Operating systems	Operating systems	Operating systems
Computer networks	Computer networks	Computer networks	Computer networks
Programming Languages	Programming Languages	System software	System software
Software engineering	Network technologies and administration	Software engineering	Software engineering
Databases	System software	Databases	Databases
Network programming	Network programming	Business module 2	Business module 2
Internship	Internship	Internship	Internship
Elective courses in Software Engineering – students choose 4 of the following	Elective courses in Computer Networks – students choose 4 of the following	Elective courses in Management of Information Systems – students choose 4 of the following	Elective courses in IT Management – students choose 4 of the following
Network technologies and administration	Software engineering	Network technologies and administration	Network technologies and administration
Business module 2	Business module 2	Network programming	Network programming
Data structures and algorithms	Data structures and algorithms	Data structures and algorithms	Data structures and algorithms
System software	Databases	Programming Languages	Programming Languages
Introduction to e-business	Introduction to e- business	Introduction to e- business	Introduction to e- business
Numerical analysis	Numerical analysis	Numerical analysis	Numerical analysis
Computer graphics and animation	Computer graphics and animation	Computer graphics and animation	Computer graphics and animation

III YEAR  
(Total ECTS62)

Software Engineering required courses	Computer Networks required courses	Management of Information Systems Required courses	IT Management required courses
Internet programming	Architectures of Computer Networks	Information systems	Information systems
Distributed databases	Data security	Economic management	Operation and project management
Software development	Information systems	Management of Information Systems	Information systems security
Baccalaureate project	Baccalaureate project	Business module 3	Business module 3
Internship	Internship	Baccalaureate project	Baccalaureate project
		Internship	Internship
Elective courses in Software Engineering – students choose 4 of the following	Elective courses in Computer Networks – students choose 4 of the following	Elective courses in Management of Information Systems – students choose 3 of the following	Elective courses in IT Management – students choose 3 of the following
Software Systems Architecture and Design	Internet	Internet	Internet
Internet services	Internet services	Financial and managerial accounting	Financial and managerial accounting
Business module 3	Business module 3	Distributed databases	Information and economy management
Data security	Information systems in organizations	Data security	Information systems in organizations
Multimedia systems and technologies	Multimedia systems and technologies	Information systems in organizations	Information Retrieval Systems
Telecommunication systems for data transfer	Telecommunication systems for data transfer	Human resource management	Human resource management
Robotics and artificial intelligence	Robotics and artificial intelligence		

Total ECTS = 186

\* The University American College Skopje reserves the right to offer courses in special semester

\* University American College Skopje has the right to amend the program