



AUM

American University of Madaba

Faculty of Information Technology

Computer Science Program

Guidance Study Plan 2017/2018

134 Credit Hours

First Year							
Fall Semester (17 credit hours)				Spring Semester (17 credit hours)			
Number	Course Name	Cr.	Prerequisite	Number.	Course Name	Cr.	Prerequisite
0401121	Programming Fundamentals	3	0401120*	0401122	Object-Oriented Programming	3	0401121 0401123
0401120	Programming Fundamentals Lab	1	0401121*	0401123	Object-Oriented Programming Lab	1	0401122*
0401111	Discrete Structures	3	--	0401211	Theory of Computation	3	0401111
0203101	Calculus (1)	3	--	0203102	Calculus (2)	3	0203101
0204101	General Physics (1)	3	--	0204102	General Physics (2)	3	0204101
0401151	Introduction to Information Systems	3	0401151	0900130	English Communication Skills (1)	3	0900099**
0900110	Cultural Development (1)	1	0900110	0900101	Sports (1)	1	0900101
Second Year							
Fall Semester (17 5credit hours)				Spring Semester (17credit hours)			
Number	Course Name	Cr.	Prerequisite	Number.	Course Name	Cr.	Prerequisite
0401241	Networks and Data Communications	3	0401151	0401231	Digital Logic Design	3	0401151
0401212	Data Structures	3	0401122	0401313	Principles of Computer Algorithms	3	0401212
0401223	Advanced Object-Oriented Programming Language & GUIs	3	0401122 0401224*	0401321	Web-based Programming and Applications	3	0401223*
0401224	OOP & GUI Lab	1	0401122*	0401322	Web-based Programming and Applications Lab	1	0401321*
0900131	English Communication Skills (2)	3	0900130	0203381	Numerical Analysis	3	0203102
0900111	Military Science	3	--		University Elective	3	--
0900100	Swimming	1	-		University Elective	1	--
Third Year							
Fall Semester (18 credit hours)				Spring Semester (18 credit hours)			
Number	Course Name	Cr.	Prerequisite	Number	Course Name	Cr.	Prerequisite
0401331	Computer Architecture	3	0401231	0401332	Operating Systems Concepts	3	0401331
0401251	Database Fundamentals	3	0401212	0401355	Systems Analysis and Design	3	0401251
0401314	Fundamentals of Artificial Intelligence	3	0401313	0401342	Computer Security	3	0401241
0401343	Wireless Networks	3	0401241	0203281	Probability and Statistics	3	--
	Department Elective	3	Dept. Approv.		University Elective	3	--
	University Elective	3	--		University Elective	3	--
Forth Year							
Fall Semester (15 credit hours)				Spring Semester (15 credit hours)			
Number	Course Name	Cr.	Prerequisite	Number	Course Name	Cr.	Prerequisite
0401451	Software Engineering Concepts	3	0401355	0401431	Computer Design and Organization	3	0401331
0401453	Database Management Systems	3	0401251	0401423	Computer Networking Programming	3	0401223 + 0401241
0401492	Practical Training	3	Dept. Approv.	0401491	Graduation Project	3	Dept. Approv.
	Department Elective	3	Dept. Approv.		Department Elective	3	Dept. Approv.
	Free Elective	3	--		Free Elective	3	--

* Co-requisite (a course that must be taken concurrently).

** Passing a placemat test.