American University – Central Asia
Program: Software Engineering

CHECKLIST

Student's Name_____ **ID #**_____

Major _____**SFW**_____ **Year of Admission** __2012_____

Minor _____ **Year of Declaration** _____

Course Name	Course #	Course ID	Credits	Semester	Comments
General Education Courses					**Total - 84 Credits**
First Year Seminar I/II			24		
Kyrgyz/ Russian Language			6		
History of Kyrgyzstan			4		
Manas Studies			2		
Introduction to Philosophy			4		
Social Sciences & Humanities (18 credits):					
• Psychology, Sociology, Political Studies, Economics, Law, Anthropology and/or European Studies from outside the student's major			12		
• Modern Foreign Languages, Religious Study, History, Literature, and/or Culture from outside the student's major			6		
Art/Sport					
Arts			12		
Sports			2		
Natural science					
Ecology/Geography/Geophysics/History and Philosophy of Science			3		
Linear Algebra & Analytic Geometry	MAT 131		6		
Mathematical Analysis I	MAT 233		6		
SFW					
Introduction to Computing	COM 106		3		
Courses on Specialty					**Total 156 credits**
Required Courses on Specialty					**Total 102 credits**
From Natural science department					
Discrete mathematics and mathematical logic I			6		
Discrete mathematics and mathematical logic II			6		
Theory of Probabilities and Math. Statistics			6		
Mathematical Analysis II			6		
From Software Engineering department					
Programming I. Introduction to Object Oriented	COM 116		6		
Programming II. Object Oriented Programming	COM 117		6		
Algorithms and Data Structures	COM 223.1		6		
Computer Architecture	COM 410.1		6		
Operating Systems	COM 341.1		6		
Parallel and Distributed Programming	COM 451.1		6		
Database Principles	COM 210.1		6		

Software Engineering I	COM 421.1		6		
Software Engineering II	COM430.1		6		
Senior Project Preparation	COM 431.1/433		12		
Internship: Educational Tasks Internship: Research Project	COM 498.1 COM 499.1		6		

Elective Courses on Specialty **Total 54 credits**

From Natural science department

Numerical Methods			6		
Physics			3		

From Software Engineering department

Circuit Engineering	COM 311.1		6		
Algorithm Analysis	COM 324.1		6		
Computer Graphics: Programming Basics			6		
Computer Networks	COM 463.1		6		
Computer Systems & Assembler	COM 231.1		6		
Database Design	COM 326.1		6		
Dynamic HTML & Web-page design			6		
Expert Systems			6		
HTML & Web-page design			6		
Information Security 1	COM 424.1		6		
Information Security 2	COM 425.1		6		
IT Project Management			6		
Programming Languages	COM 371.1		6		
System Administration	COM 416.1		6		
Theory of Computation	COM 322.1		6		
Web programming	COM 388.1		6		
Websites & Mobile Web App Dev. HTML/CSS	COM 365.1		6		
Mobile App development	COM 250.1		6		

Elective Courses Outside the Major

Courses for Minor

Total Number of Credits		**240**

The Head of Major Program _____ The Head of Minor Program _____

Student Signature _____