American University – Central Asia

Program: Software Engineering

CHECKLIST

Student's Name_____ **ID #** _____

Major _____**SFW**_____ **Year of Admission** __2011_____

Minor _____ **Year of Declaration** _____

Course Name	Course #	Course ID	Credits	Semester	Comments
General Education Courses				**Total - 54 Credits**	
History of Kyrgyzstan			3		
First Year Seminar			12		
Kyrgyz/ Russian Language (6 credits)			6		
Philosophy			3		
Social Sciences & Humanities (12 credits):					
• Psychology, Sociology, Political Studies, Economics, Law, Anthropology and/or European Studies from outside the student's major			6		
• Modern Foreign Languages, Religious Study, History, Literature, and/or Culture from outside the student's major			6		
Research Methods	COM 490	2000	3		
History and Philosophy of Science			3		
Ecology, Geography or Geophysics			3		
Linear Algebra & Analytic Geometry	MAT 103	2615	3		
Computer Essentials (Intro to Computers)	COM 104	2486	3		
Sports and Arts			6+6		
Required Courses					
Programming I. Introduction to Object Oriented Programming	COM 110	2567	3		
Programming II. Object Oriented Programming	COM 113	2605	3		
Mathematical Analysis I	MAT 226	2569	3		
Discrete Structures I	COM 225	new	3		
Physics	COM 230	1647	3		
Algorithms and Data Structures	COM 223	1492	3		
Mathematical Analysis II	MAT 316	2623	3		
Discrete Structures II	COM 226	new	3		
Computer Architecture	COM 410	1799	3		
Theory of Probabilities and Math. Statistics	MAT 306	2619	3		
Numerical Methods	MAT 405	113	3		
Algorithm Analysis	COM 324	1650	3		
Database Principles	COM 210	2287	3		
Operating Systems	COM 341	1418	3		
Software Engineering I	COM 421	215	2		
Parallel and Distributed Programming	COM 451	2660	3		
Software Engineering II	COM 430	1879	2		
Senior Project Preparation	COM 431	2005	2		
Internship					

Internship: Educational Tasks Internship: Research Project	COM 498/ COM 499	1929/ 1924	1/ 2		

Elective Courses on Specialty

Programming Languages	COM 371	2153	3		
Computer Systems & Assembler	COM 231	218	3		
Circuit Engineering	COM 310	1648	3		
Theory of Computation	COM 331	2094	3		
Database Design	COM 326	new	3		
System Administration	COM 415	1800	3		
Computer Networks	COM 463	1493	3		
Computer Graphics: Programming Basics	COM 380	2659	3		
3 D Graphics	COM 384	1415	3		
HTML & Web-page design	COM 360	2550	3		
Dynamic HTML & Web-page design	COM 387	2458	3		
Information Security	COM 424	2122	3		
IT Project Management	COM 492	2352	3		
Expert Systems	COM 460	new	3		
Information Security	COM 424	2122	3		
Programming Language C ++	COM 209	new	3		
Information Technologies and Information Systems	COM 206	1374	3		
PC Hardware	COM 240	2208	3		
Web programming	Com 388	2805	3		
Mobile Web Application Development					

Elective Courses Outside the Major

Courses for Minor

Total Number of Credits			**144 Credits**

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

Student Signature   _____