American University of Central Asia

Program: Software Engineering

CHECKLIST

Student's Name:	ID #:			
Major:	Year of Admission:	2018		
Minor:	Year of Declaration:			

linor: Year of Declaration:					
Course #	Course II	Credits	Prereq	Comments	
	-	·	Total -	80-96 Credits	
		6			
		2			
		2			
		2			
		8			
		2			
		2			
		6			
		6			
		4			
		2			
	1		T		
		12		OR Second year seminar: Social science (6 cr)	
		12		OR Second year seminar: Humanities (6 cr)	
		12			
		0	4 semesters-1 sport class (400 Hours)		
		3+3			
		6	none		
		6	Linear Algebra		
<u> </u>			Total 146	credits	
			126		
				99 credits	
		6			
COM-223.1	3114	6	OOP		
COM-410.1	3268	6	Alg.& Data structures		
		6			
COM-213	4773	6	Alg.& Data structures		
COM-424.1	3953	6			
	COM-223.1 COM-410.1	COM-223.1 3114 COM-410.1 3268		Course # Course ID Credits Prereq	

Y	1	 				
Internship: Educational Tasks Internship: Research Project			6			
Introduction to Software Engineering and Informatics	COM-108	4321	6	-	Fall-2017	
Object Oriented Programming	COM-119	4357	6	Structural programming	Spring-2018	
Operating Systems	COM-341	3325	6	Alg.& Data Struct+Archit.		
Safety Management and Economics	COM-120	4358	3	-		
Senior Project Preparation I/ II	COM-431.1	3706	12	Comp. Archit+ OperSyst		
^	COM-431.1	3700		Comp. Aremit+ Operaysi		
Software Design and Architecture			6			
Software Engineering			6			
Structural programming	COM-118	4322	6	None	Fall-2017	
System programming			6			
	——————		99			
Required courses from "Applied Mathematic	cs and Inform	atics" d	epartmen	t	24 credits	
Mathematical Analysis II for AMI/SFW			6	Math. Analysis I	From AMI	
Discrete mathematics and math. logic I			6	-	From AMI	
Discrete mathematics and math. logic II			6	Discrete Math I	From AMI	
6 credits out of next courses:	T	1		000 134 1 4 1	T =	
Numerical Methods Theory of Probabilities and Math. Statistics			6	OOP and Math.An II Linear Math.	From AMI	
Theory of Probabilities and Math. Statistics	<u></u>	L		Linear Math.	From AMI	
Elective Courses on Specialty						
From Software Engineering department				Minimum 18 cr	edits (23 cr)	
3D Design and Animation			6	-		
ABAP programming for SAP			6	OOP		
Algorithm Analysis*			6	Alg. and Data Structures OOP		
Applied Autonomous robotics Introduction to Artificial Intelligence			6	FYS II		
Computer Design I / II			6	11311		
Computer Networks			6	Operating Systems		
Computer Systems & Assembler			6	OOP		
Computer Vision			6	Parallel and Distr. Prog		
Cryptography			6	Alg. and Data Structures		
Data Science Database Design			6	OOP Database		
Digital Integrated Circuit Design			6	OOP		
Game Development			6	OOP		
Information Security II			6	Info.security		
Intro to Web programming			6	OOP and Comp		
Introduction to automated deduction			6	Discrete Math II		
iOS application development Machine learning			6	OOP LinAlg and Comp Archi	tect	
Mobile and IoT Development			6	OOP		
Neural Networks and deep learning			6	Comp Architecture		
Programming Languages			6	OOP		
System Administration			6	Comp Networks		
Theory of Computation			6	Lin. Algebra		
Website & Mobile Web App *courses should be taken in case of doing Min	lor		6	Intro to SE and Informat	1CS	
Courses for Minor*	iOI					
Courses for Willion						
Total Number of Credits 240						
ZTU						

Order of study for 2018 admits

	Oruer o	Stuc	19 101	r 2018 admits	
	I semester (30 credits)			II semester (30 credits)	
Gen. Ed.	First Year Seminar I	6		First Year Seminar I	8
	Introduction to Philosophy I (part of FYS)	2	ن ت	Introduction to Philosophy II (part of FYS)	2
	Kyrgyz Language (part of FYS)	2	Gen. Ed.	Manas Studies	2
Ge	Russian Language (part of FYS) Total FYS: 12 c	2	Ge	Total FYS: 1	2 credits
	Sport (Competitive programming)	0		Sport (Competitive programming)	0
Profile				Object Oriented Programming	6
	Introduction to Software Engineering and Informatics	6	ofile	3 0	
				Safety Management and Economics	3
	Linear Algebra and Analytic Geometry	6	P	Physics	3
	Structural programming	6		Mathematical Analysis I	6
	III semester (30 credits)	0 credits) IV semester (33 credits)			
	Mathematical Analysis II	6		Computer Architecture	6
file	Algorithm and Data Structures	6	Profile	Discrete Mathematics II	6
Profile	Discrete Mathematics I	6	ro	Elective course (Algorithm Analysis)	6
	Elective course (Game Dev., Web.		"	Numerical Methods/Theory of	6
	Prog. Mobile App Dev etc.)	6		Probabilities	
Gen. Ed.	Second year seminar	6	Gen. Ed.	History and Geography of Kyrgyzstan	6
	Sport (Competitive programming)	0		Sport (Competitive programming)	0
	Sport (Competitive programming)			Ecology	3
	V semester (30 credits)	1		VI semester (30 credits)	
	Operating Systems	6		Computer Graphics	6
le le	Database	6	ile	Algorithm Languages	6
Profile			Profile	Elective course	6
P.	Elective course (Game Dev., Web. Prog. Mobile App Dev etc.)	12	I	System programming	6
Gen. Ed.	KYR(Lit)/RUS:ART	6	Gen. Ed.	KYR(Lit)/RUS:ART	6
VII semester (30 credits) VIII semester (30 credits)				VIII semester (30 credits)	
	Senior Paper/Seminar	6		Senior Paper/Seminar	6
67	Elective course (Game Dev., Web.	6	a)	Software Design and Architecture	6
Profile	Prog. Mobile App Dev etc.)	_	Profile		
Pr	Software Engineering	6	Pr	Elective	6
	Elective	6		Information Security	6
Gen. Ed.	Social Science	6	Gen. Ed.	Social Science	6