

American University in Central Asia
Department: Environmental Sustainability and Climate Science

CHECKLIST FOR ADMITS 2022

General Education Courses						
Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
Academic Orientation program: August 22- September 2, 2022			2*			Outside of 240
First Year Seminar I			4			
First Year Seminar II			4			
Introduction to Philosophy I (part of FYS)			2			
Introduction to Philosophy II (part of FYS)			2			
English Composition I			6			
English Composition II			6			
Kyrgyz Language and Literature I			4			
Kyrgyz Language and Literature II			4			
Russian Language I			2			
Russian Language II			2			
History of Kyrgyzstan			4			
Geography of Kyrgyzstan			2			
Manas Studies			2			
Mathematics and Quantitative Reasoning			6			
Natural Sciences/Second Year Seminar**			6			
Arts/Second Year Seminar**			12			

Humanities/Second Year Seminar**			12			
Social Sciences/Second Year Seminar**			12			
Sports			400 hours/0 credits			
Total GenEd credits			92 [2] credits			

* Credits earned for the Academic Orientation program are not included into 240 credits for graduation.

**All students in their 2nd year must take one Second Year Seminar. This seminar substitutes for one required 6-credit course in either Humanities, Social Sciences, Arts or Natural Science.

***One 6-credit course in Major requirements could be counted towards General Education requirements.

Major Requirements						
Required Courses in Major						Total - 66 credits
Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
Applied Ecology: Interactions, Relationships and Conservation	ENV/NTR-205	4228	6	1		
Environmental Chemistry *	ENV-110	3463	6	2		
Climate Change and Sustainable Development Goals	ENV-216	5101	6	3		
GIS Application in Environmental Management	ENV-201	3784	6	3		
Trees, Forests and Sustainability	ENV-215	5106	6	5		
Agro-Ecology Integrated Crop Management	ENV-303	3850	6	5		
Research Methods	ENV-207	4116	6	6	ENV/NTR-205/100	
Water Resource System Planning and Management	ENV 304	3844	6	7		
Internship Research Project I	ENV-204	3849	3	4		
Internship Research Project II	ENV-300	3853	3	5		
Senior Thesis Seminar I	ENV 400	3852	6	7	ENV 203 - ENV/NTR 205 AGEO 100	
Senior Thesis Seminar II	ENV 401	3851	6	8	ENV 400	
Elective Courses in Major list:	30 credits from the following					

Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
General Chemistry	EMSD/NTR-101	3673	6	1		
Intro to Environmental Management System	ENV-202	3785	6	4		
Programming R : Software for Statistical Computing	COM-211	3863	6	4	MAT-133 MAT-129.1 MAT-134 MAT-135 MAT-135.1 MAT-234	
International Environmental Law and Policy	ENV/NTR/LAS /BUS- 305	3846	6	6		
Environmental Health and Safety	ENV-205	5367	6	7		
Green Spaces in Urban Development	ENV/NTR-210	4591	6	7		
The Environmental and Socio-Economic Impacts of Mining	ENV/AGEO-301	3847	6	8	ENV/NTR-100 ENV/NTR-205	
Ecosystem Services	ENV-301	5519	6	8		
Climate Change and Natural Disasters	ENV-306	4114	6	8		
Major requirements					96 credits	
Other courses, at least 18 cr. outside of major					52 credits	
Total (including general education requirements)					240 credits	
Internship (on the top of 240 credits):					9 credits	

* Can be counted towards Natural Sciences requirement in the General Education program

Order of study for 2022 admits

Academic Orientation Program [2 credits]			
1st semester (30 credits)		2nd semester (30 credits)	
First Year Seminar I	4	First Year Seminar II	4
English Composition	6	English composition	6
Intro to Philosophy I	2	Intro to Philosophy II	2
Applied Ecology: Interactions, Relationships and Conservation	6	Humanities	6
General Chemistry	6	Environmental Chemistry	6
Elective	6	Intro to Contemporary Math I	6
Sport (100 hour)	0	Sport (100 hour)	0
3rd semester (33 credits)		4th semester (33 credits)	

Kyrgyz Language and Literature I	4	Arts/SYS	6
Social Science/SYS	6	Kyrgyz Language and Literature II	4
Manas Studies	2	History of Kyrgyzstan	4
Climate Change and SDGs	6	Geography of Kyrgyzstan	2
GIS Application in Environmental Management	6	Russian Language I	2
Intro to Probability and Statistics	6	Programming R: Software for Statistical Computing	6
Elective Courses	3	Intro to Environmental Management System	6
Sport (100 hour)	0	Internship/ Research Project I (Summer)	3
		Sport (100 hour)	0
5th semester (33 credits)		6th semester (33 credits)	
Agro-Ecology Integrated Crop Management	6	Research Methods	6
Trees, Forests and Sustainability	6	Russian Language II	2
Internship/ Research Project II	6	International Environmental Law and Policy	6
Elective Courses	15	Elective Courses	19
7th semester (33 credits)		8th semester (33 credits)	
Senior Thesis Seminar-1	6	Senior Thesis Seminar-2 (6 cr.)	6
Water Resource System Planning and Management	6	The Environmental and Socio-Economic Impacts of Mining	6
Environmental Health and Safety	6	Ecosystem Services	6
Green Spaces in Urban Development	6	Climate Change and Natural Disasters	6
Elective Courses	9	Elective courses outside of student's concentration	9

Graduation requirements:

1. Earn at least 240 credits (+credit hours earned for program internships)
 - a. Complete all General Education requirements;
 - b. Complete all requirements for at least one major;
 - c. Earn no more than 102 credits of introductory (100-level) courses;
 - d. Complete at least 18 elective credits outside of a student's major and General Education program;
 - e. Complete the required number of internship credits (the number of credits is determined by each department);
 - f. Pass all state graduation examinations;

- g. Successfully complete and defend a senior thesis/project;
 - h. Receive no "F" or "N/p" grades in the final semester;
- To earn an overall GPA of at least 2.0.