

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

CHECKLIST FOR ADMITS 2026

General Education Courses						
Course Name	Course code	Course ID	Credits	Semester	Prerequisites	Comments
Academic Orientation program: August 17 - August 28, 2026	ORI		2*			Outside of 240
First Year Seminar I	FYS		4		none	
First Year Seminar II	FYS		4		FYS 1	
Introduction to Philosophy I (part of FYS)	FYS		2		none	
Introduction to Philosophy II (part of FYS)	FYS		2		Phil I	
English Composition I	ECL		6		none	
English Composition II	ECL		6		ECL I	
Kyrgyz Language and Literature I	KLL		4		none	
Kyrgyz Language and Literature II	KLL		4		KLL I	
Russian Language I	RUS		2		none	
Russian Language II	RUS		2		RUS I	
History of Kyrgyzstan	HIST		4		none	
Geography of Kyrgyzstan	GEO		2		none	
Manas Studies			2		none	
Mathematics and Quantitative Reasoning			6		none	
Natural Sciences/Second Year Seminar** Environmental Chemistry (according curriculum)	ENV-110		6	F		
Arts/Second Year Seminar**	ART		12			
Humanities/Second Year Seminar**	SYS/HUM		12			
Social Sciences/Second Year Seminar**	SYS/SS		12			
Sports	SPO		0		none	400 hours
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					Total - 48 credits	
Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
Environmental Chemistry	ENV/NS-110	6427	6	2 / S		Can be counted as Gened environmental course
Intro to Environmental Management System	ENV-202	3785	6	4 / S	4228	
GIS Application in Environmental Management	ENV/NS-202	5955	6	3 / F		
Research Methods	ENV-308	4116	6	6 / S		
Applied Ecology: Interactions, Relationships and Conservation	ENV/NTR-205	4228	6	1 / F		
Climate Change and Sustainable Development Goals	ENV-216	5101	6	3 / F		
Environmental Strategies in Natural Resource Management	ENV-311	6448	6	5 / F		
Water Resource System Planning and Management	ENV 304	3844	6	5 / F		
Major Elective Courses					Total – 30 credits	
Course Name	Course code	Course ID	Credits	Semester	Prerequisites	Comments
Introduction to Environmental Management and Sustainable Development	ENV/NTR - 100	3259	6			
General Chemistry	ESCS/NTR-102	6429	6			
Eco-tourism and Environmental Conservation	ENV/NS-102	5960	6			
International Environmental Law and Policy	ENV/NS-295	5953	6			
Climate Change and Natural Disasters	ENV-306	4114	6			
Non-Major Elective Courses				52 credits from the following list:		
Introduction to Environmental Management and Sustainable Development	ENV/NTR-100	3259	6	F		Strongly recommend
Green Spaces in Urban Development	ENV/NTR-210	4591	6			
Sustainable Ecosystem Development	ESCS/NTR-101	5674	6	F		
Environmental and social impact assessment	ENV-200	3675	6	F		
Waste Management: Waste Disposal and Recycling	ENV/NTR-200	5513	6	S		
Ecosystem Services	ENV/NS-201	5956	6	S		

Environmental Geophysics	ENV-309	5959	6	F		
Environmental Health and Safety	ENV-205	5367	6	F		
Sustainable, Renewable and Clean Energy Science and Engineering	ESCS/NS-209	5970	6	S		
Programming R : Software for Statistical Computing	COM-211	3863	6	S	3346 3276 3345 3344 3627 3075	
Wildlife Conservation	ENV/NS-213	5954	6	S	4228	
Food Security, Nutrition and Sustainable Development	ENV/NTR-214	5512	6	S		
Trees, Forests, and Sustainability	ENV-315	5958	6	F		
The Environmental and Socio-Economic Impacts of Mining	ENV/AGEO-301	3847	6	S	4228	
Environmental accounting and management	ENV-302	3786	6	S	4228	
Agro-Ecology Integrated Crop Management	ENV-303	3850	6	F		
Senior Thesis Seminar – 12 credits						
Senior Thesis I	ENV 400	3852	6	7	4228	
Senior Thesis II	ENV 401	3851	6	8	3852	
Total (Major requirements, Senior Thesis):					90 credits	
Non-Major Elective Courses						
at least 18 credits should be taken outside of the major					52 credits	
Internship – 9+6 (outside of 240 credits)					15 credits	
Internship: Research Project I	ENV-309	3849	6	3-7	4228	Pass/Non-pass Within the 240-credit graduation requirement
Internship: Field Work	ENV-402	6431	9	3-7	3849	Pass/Non-pass Outside the 240-credit graduation requirement
Total Credits		240+...				

Order of study for 2026 admits

Academic Orientation Program [2 credits]			
1st semester (30 credits)		2nd semester (30 credits)	
1. FYS I	4	1. FYS II-	4
2. English Composition I	6	2. English composition I	6
3. Intro to Philosophy I	2	3. Intro to Philosophy II	2
4. Introduction to Environmental Management and Sustainable Development	6	4. Kyrgyz Language and Literature II	4
5. Russian Language I	2	5. Russian Language II	2

6. Kyrgyz Language and Literature I	4	6. Environmental Chemistry	6
7. General Chemistry	6	7. Intro to Contemporary Math I (MAT -129.1)	6
8. Sport – (0 cr.)	0	8. Sport – (0 cr.)	0
3rd semester (33 credits)		4th semester (33 credits)	
1. Climate Change and Sustainable Development Goals	6	1. Gen Ed course (HUM/Arts/Soc/Second Year Seminar**)	6
2. Gen Ed course (HUM/Arts/Soc/Second Year Seminar**)	6	2. History of Kyrgyzstan	4
3. Manas Studies	2	3. Geography of Kyrgyzstan	2
4. Green Spaces in Urban Development	6	4. Intro to Environmental Management System	6
5. GIS Application in Environmental Management	6	5. Internship/ Research Project I (ENV-309)	3
6. Elective	7	6. Elective in major	6
7. Sport – (0 cr)	0	7. Elective	7
		8. Sport – (0 cr)	0
5th semester (33 credits)		6th semester (33 credits)	
1. Water Resource System Planning and Management	6	1. International Environmental Law and Policy	6
2. Internship Research Project II	3	2. Research Methods	6
3. Gen Ed course (HUM/Arts/Soc)	6	3. Gen Ed course (HUM/Arts/Soc)	6
4. Elective in major	6	4. Elective in major	6
5. Elective	12	5. Elective	9
7th semester (33 credits)		8th semester (33 credits)	
1. Senior Thesis Seminar I	6	1. Senior Thesis Seminar II	6
2. Gen Ed course (HUM/Arts/Soc)	6	2. Gen Ed course (HUM/Arts/Soc)	6
3. Elective in major	6	3. Elective in major	6
4. Elective	15	4. Elective	15

Graduation requirements:

1. Earn at least 240 credits (+credit hours earned for **orientation program** and 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.