

American University of Central Asia
Department: ESCS

CHECKLIST FOR ADMITS 2024

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

General Education Courses						
Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
Academic Orientation program: August 12 - August 23 2024			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**	ENV-110		6	F		
Environmental Chemistry (according curriculum)						
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			

**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 without thesis:				Total: 96 credits (required and elective courses)		
Required Courses in Major					Total - 66 credits	
Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
Environmental Chemistry	ENV-110	3463	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-207	4116	6	6 /S		
Green Spaces in Urban Development	ENV/NTR-210	4591	6	3/ F		
Climate Change and Sustainable Development Goals	ENV-216	5101	6	3 /F		
International Environmental Law and Policy	ENV/NS-295	5953	6	6 /S		
Water Resource System Planning and Management	ENV 304	3844	6	5 /F		
Internship Research Project I	ENV-204	3849	3	4 /S		
Internship Research Project II	ENV-300	3853	3	5 /F		
Senior Thesis Seminar	ENV 400	3852	6	7 /F	4228	
Senior Thesis Seminar II	ENV 401	3851	6	8 /S	3852	
Elective Courses in Major				30 credits from the following list:		
Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
Introduction to Environmental Management and Sustainable Development	ENV/NTR-100	3259	6	F		Strongly recommend
Applied Ecology: Interactions, Relationships and Conservation	(ENV/NTR-205)	4228	6	1/F		Strongly recommend
General Chemistry	EMSD/NTR-101	3673	6	F		
Sustainable Ecosystem Development	ESCS/NTR-101	5674	6	F		
Eco-tourism and Environmental Conservation	ENV/NS-102	5960	6	S		
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/NS-203	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 3345 3627	3276 3344 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/NS-215	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		
Climate Change and Natural Disasters	ENV-306	4114	6	S		
Total (major requirements, thesis):					96 credits	
Other courses, at least 18 cr. outside of major (52 cr. =240 cr. - 96 cr. - 92 cr.)					52 credits	
Internship (outside of 240 credits):					9 credits	

Order of study for 2024 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-300) (Summer)	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 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.