

American University in Central Asia
Department: GEO

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 - 78 credits
Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
General Geology*	AGEO/NTR-111	4491	6	2		
Environmental Geo-chemistry	AGEO-110	4182	6	2		
Intro to Structural Geology and Tectonics	AGEO-220	4258	6	2		
Intro to Mineralogy and Petrology	AGEO-201	4259	6	3		
Environmental Geology and Mining Safety	AGEO -214	4490	3	5		
GIS Application in Earth Sciences	AGEO/NTR-300	4492	6	5		
Exploration Techniques and Geotechnics	AGEO-301	4691	6	6	AGEO-201	
Research Methods	AGEO-305	4692	6	6	AGEO-201	
Mineral Deposits Geology and Surface Excavation	AGEO-402	4802	6	7	AGEO/NTR-111	
Drilling Technology	AGEO-401	4943	6	8	AGEO-301	
Hydrogeology and Integrated Water Resource Management	AGEO-403	4942	3	8		
Internship /Research Project I	AGEO -222	4359	3	4		
Internship/ Field Work 2	AGEO -307	4905	3	5	AGEO-222	
Senior Thesis Seminars I, and 2	AGEO-400	4805	12	7 and 8		

Elective Courses in Major				24 credits from the following list		
Course Name	Course abbr.	Course ID	Credits	Semester	Prerequisites	Comments
Intro to Environmental Management and Accounting	AGEO-100	4080	6	1 or 2	AGEO-100	
History of Geomorphology and Quaternary Geology	AGEO -206	4803	6	1 or 2		
Programming R: Software for Statistical Computing	COM-211	3863	6	3 or 4		
Intro to Metrology and Environmental Management	AGEO-221	4360	6	5 or 6		
Advanced Mineral Analysis and Mineral Processing	AGP-306	4804	6	5 or 6		
Intro to Stratigraphy and Paleontology	AGEO-308	4940	6	5 or 6		
Geodynamics and Geotectonic	AGEO- 304	4693	6	7 or 8		
Major requirements						102 credits
Elective courses, at least 18 cr. outside of major						46 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 (part of FYS)	2	Intro to Philosophy II (part of FYS) (2 cr.)	2
History of Geomorphology and Quaternary Geology	6	Intro to Contemporary Mathematics 1	6
Intro to Environmental Management and Accounting	6	Environmental Geo-chemistry	6
Elective Course (Art)	6	General Geology	6
Sports (100 hour)	0	Sports (100 hour)	0
3rd semester 33 credits)		4th semester (33 credits)	
Humanities/SYS	6	Social Sciences/SYS	6
Kyrgyz Language and Literature I	4	History of Kyrgyzstan	4

Manas Studies	2	Geography of Kyrgyzstan	2
Intro to Mineralogy and Petrology	6	Kyrgyz Language and Literature II	4
Intro to Structural Geology and Tectonics (AGEO-220)	6	Programming R: Software for Statistical Computing	6
Elective Course (Art)	9	Internship /Research Project I	3
Sports (100 hour)	0	Elective Course	8
		Sports (100 hour)	0
5th semester (33 credits)		6th semester (33 credits)	
Russian Language I	2	Russian Language II	2
GIS Application in Earth Sciences	6	Research Methods	6
Environmental Geology and Mining Safety	3	Intro to Metrology and Environmental Management	6
Internship 2/ Field Work	3	Exploration Techniques and Geotechnics	6
Advanced Mineral Analysis and Mineral Processing	6	Intro to Stratigraphy and Paleontology	6
Elective Course	15	Elective Course	7
7th semester (33 credits)		8th semester (33 credits)	
Senior Thesis Seminar	6	Drilling Technology	6
Mineral Deposits Geology and Surface Excavation	6	Senior Thesis Seminar	6
Elective Course	19	Hydrogeology and Integrated Water Resource Management	3
Outside of a student's major	2	Geodynamics and Geotectonic	6
		Outside of a student's major	12

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.