**American University in Central Asia Department: GEO**

 CHECKLIST FOR ADMITS 2022

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| **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.

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| **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 EnvironmentalManagement  | 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**

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|  **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)
	1. Complete all General Education requirements;
	2. Complete all requirements for at least one major;
	3. Earn no more than 102 credits of introductory (100-level) courses;
	4. Complete at least 18 elective credits outside of a student’s major and General Education program;
	5. Complete the required number of internship credits (the number of credits is determined by each department);
	6. Pass all state graduation examinations;
	7. Successfully complete and defend a senior thesis/project;
	8. Receive no "F" or "N/p" grades in the final semester;

To earn an overall GPA of at least 2.0.