**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.

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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 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)
   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.