**American University of Central Asia Department: ESCS**

 CHECKLIST FOR ADMITS 2025

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| **General Education Courses** |
| **Course Name** | **Course abbr.** | **Course ID** | **Credits** | **Semester** | **Prerequisites** | **Comments** |
| **Academic Orientation program:** **August 11 - August 22 2025** |  |  | **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\*\* Environmental Chemistry (according curriculum) | ENV-110 |  | 6 | F |  |  |
|  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 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 EnvironmentalManagement  | 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 andManagement | 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 32763345 33443627 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 2025 admits**

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|  **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 | 1. 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 |
| 1. Internship Research Project II
 | 3 | **2** Research Methods | 6 |
| 1. Gen Ed course (HUM/Arts/Soc)
 | 6 | 3, . Gen Ed course (HUM/Arts/Soc) | 6 |
| 1. Elective in major
 | 6 | 4. Elective in major | 6 |
| 1. 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 |
| 1. Gen Ed course (HUM/Arts/Soc)
 | 6 | 1. Gen Ed course (HUM/Arts/Soc)
 | 6 |
| 1. Elective in major
 | 6 |  3 . Elective in major | 6 |
| 1. Elective
 | 15 |  4 . Elective | 15 |

## 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.