

American University in Central Asia

CHECKLIST

Student's Name _____

ID # _____

Major: Environmental Sustainability and Climate Science

Year of Admission 2022

Profile: _____

Year of Declaration ____

Course Name	Course #	Course ID	Credits	Prerequisite	Comments
<i>MES KR REQUIREMENTS</i>					
Introduction to Philosophy I (part of FYS)			2		
Introduction to Philosophy I (part of FYS)			2		
Kyrgyz Language and Literature I*			4		
Kyrgyz Language and Literature II*			4		
Russian Language I			2		
Russian Language II			2		
History of Kyrgyzstan* (to be completed during sophomore year)			4		
Geography of Kyrgyzstan* (to be completed during sophomore year)			2		
<i>GENERAL EDUCATION COURSES and FYS and Bard distribution requirements</i>					
English Composition I			6		
English Composition II			6		
FYS I			4		
FYS II			4		
General Education and distribution requirements*^{***}					
Arts/SYS ^{***}			12		
Humanities/ SYS ^{***}			12		
Social Sciences/ SYS^{***}			12		
Natural Sciences (philosophy of science/ concept of modern sciences) SYS ^{***}			6		
Mathematics (6 credits may overlap with major requirements)**			12		
Sports		400 hours	0		
<i>Sum - 96 Credits</i>					

* All students are required to take state examination on these courses in their 2nd year. It is highly recommended to complete them by the end of 4th semester.

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1. Students from AMI and SFW should not take General Education Mathematics courses. They fulfill their requirements in this area as part of their program requirements.
2. Students of Anthropology department are required to take additional 3 credits in Computer Science.
3. First year students in ANTH, ES, ICP, JMC, LAS, PSY, SOC, ESCS, TCMA and GEO departments who hope to transfer to BA should enroll in Mathematics for Business and Economics I course. Students have to consult the Business Administration department's web page to learn the transfer requirements of the department.
4. First year students in ANTH, ES, ICP, JMC, LAS, PSY, SOC, ESCS, TCMA and GEO departments who hope to transfer to ECO, AMI or SFW departments should enroll in "Linear Algebra and Geometry for ECO/SFW/AMI" course. Students have to consult the web page of chosen department to learn the transfer requirements.
5. Students in PSY, SOC and JMC departments should take Introduction to Probability and Statistics during their freshman or sophomore year. In their junior year they will take a more advanced quantitative methods course that covers their second Mathematics requirement.
6. Students in ESCS department should take Introduction to Contemporary Mathematics I and Introduction to Probability and Statistics courses to fulfill their requirements in Mathematics.
7. Students from ANTH, ES, ICP, GEO, TCMA and LAS departments who do not intend to transfer to BA, ECO, AMI or SFW should take two of General Education Mathematics courses to fulfill their requirements in Mathematics over their four years at AUCA.

1. Students of PSY and SOC departments have to cover only 3 credits of Natural Science.
2. Students of AMI department have to take 6 credits of Physics in order to fulfill this requirement.
3. 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.
4. Only 6 credits of foreign languages can be counted for Humanities requirement. However, students must take two semesters for the language courses to count towards graduation.

REQUIRED CORE COURSES

Environmental Chemistry (ENV-110)		3463	6		Spring
Applied Ecology: Interactions, Relationships and Conservation (ENV/NTR-205)		4228	6		Fall
Climate Change and Sustainable Development Goals (ENV-216)		5101	6		Fall
Trees, Forests and Sustainability (ENV-200.0)		5106	6		Fall
Agro-Ecology Integrated Crop Management (ENV-303)		3850	6		Fall
Water Resource System Planning and Management(ENV 304)		3844	6		Fall
Research Methods (ENV-207)		4116	6	ENV/NTR-205/100	Spring (cross listed)
Internship1/ Field Work (ENV-204)		3849	3		Spring
Internship2/ Field Work (ENV-300)		3853	3		Fall (Summer)
Senior Thesis Seminar I (ENV 400)		3852	6	-ENV 203 - ENV/NTR 205 -AGEO 100	Fall
Senior Thesis Seminar II (ENV 401)		3851	6	ENV 400	Spring

Total - 66 Credits

<i>STRONGLY RECOMMENDED ELECTIVE COURSES</i>					
General Chemistry			6		Fall
Introduction to R: Software for Statistical Computing (COM-211)		3863	6		Spring
International Environmental Law and Policy (ENV/NTR/LAS – 305)			6		Spring
The Environmental and Socio-Economic Impacts of Mining (ENV-301)		3847	6		Spring
<i>Total - 24 Credits</i>					
<i>ELECTIVE COURSES</i>					
Green Spaces in Urban Development			6		Fall
Environmental Health and Safety			6		Fall
Intro to Environmental Management System			6		Spring
Ecosystem Services			6		Spring
Waste Management: Recycle and Waste Disposal			6		Spring
<i>Total - 36 Credits</i>					
				Sum of Credits:	222
The rest of course credits can be chosen <i>from outside of student's concentration:</i>					14
Manas studies					2
Orientation week					2
Total Number of Credits: 240					

**GED Required and ESCS Department's Courses, 2022
Suggested Order of Study**

Semesters	Semesters
<p>Fall Semester 1</p> <ol style="list-style-type: none"> 1. (FYS I -4, English Composition-6 (10 cr.) 2. Intro to Philosophy I (2 cr.) 3. Applied Ecology: Interactions, Relationships and Conservation (ENV/NTR-205) (6 cr.) 4. General Chemistry (EMSD-101) (6 cr.) 5. MATH or ELECTIVE (6 cr.) 6. Sport – (0 cr.) <p style="text-align: right;">30cr.</p>	<p>Spring Semester 2</p> <ol style="list-style-type: none"> 1. (FYS II-4, English composition-6) (10 cr.) 2. Intro to Philosophy II (2 cr.) 3. Humanities (6 cr.) 5. Environmental Chemistry (ENV-110) (6 cr.) 6. Intro to Contemporary Math I (6 cr.) 7. Sport – (0 cr.) <p style="text-align: right;">30cr.</p>
<p>Fall Semester 3</p> <ol style="list-style-type: none"> 1. Kyrgyz Language and Literature I (4 cr.) 2. Social Science/SYS (6 cr.) 3. Manas Studies (2 cr.) 4. Climate Change and SDGs (ENV-200.1) (6 cr.) 5. GIS Application in Environmental Management (ENV-201) (6 cr.)* 6. Intro to Probability and Statistics (MAT 133) (6 cr.) 7. Sport – (0 cr.) <p style="text-align: right;">30 cr.</p>	<p>Spring Semester 4</p> <ol style="list-style-type: none"> 1. Arts/SYS (6 cr.) 2. Kyrgyz Language and Literature II (4 cr.) 3. History of Kyrgyzstan (4 cr.) 4. Geography of Kyrgyzstan (2 cr.) 5. Intro to R: Software for Statistical Computing (COM/ENV-205) cross listed Soft. Eng.) (6 cr.) 6. Intro to Environmental Management System (ENV-202) (6 cr.)* 7. Internship/ Field Work (ENV-204) (Summer) (3 cr.) 8. Sport – (0 cr.) <p style="text-align: right;">31 cr.</p>
<p>Fall Semester 5</p> <ol style="list-style-type: none"> 1. Agro-Ecology Integrated Crop Management (ENV-303) (6 cr.) 2. Internship/ Field Work (ENV-300) (Summer) (3 cr.) 3. Russian Language I (2 cr.) 4. Green Spaces in Urban Development (ENV/NTR-210) (6 cr.) 5. Elective (12 cr.) <p style="text-align: right;">29 cr.</p>	<p>Spring Semester 6</p> <ol style="list-style-type: none"> 1. Environmental Accounting and Management (ENV-302) (6 cr.) * 2. Research Methods (ENV 207) (6 cr.) 3. Russian Language II (2 cr.) 4. Elective (18 cr.) <p style="text-align: right;">32 cr.</p>
<p>Fall Semester 7</p> <ol style="list-style-type: none"> 1. Senior Thesis Seminar-1 (ENV-400) (6 cr.) 2. Water Resource System Planning and Management (ENV-304) (6 cr.) * 3. Elective (18 cr.) <p style="text-align: right;">30 cr.</p>	<p>Spring Semester 8</p> <ol style="list-style-type: none"> 1. Senior Thesis Seminar-2 (6 cr.) 2. International Environmental Law and Policy (ENV/NTR/ LAS/BUS-305) (6 cr.) 3. Elective courses outside of student's concentration (16 cr.) <p style="text-align: right;">30 cr.</p>

* (ENV-100) prerequisite is an elective course such as 'Intro to Environmental Management and Sustainable Development'

Policy on AUCA Academic Orientation program

The AUCA Academic Orientation program is the major part of the Freshman orientation. It is a two-week intensive introduction to the liberal arts education with a specific focus on writing.

All entering students must enroll and receive a credit for the Academic Orientation program. Credits earned for the orientation program are in addition to 240 credits required for graduation. Students will receive either a **“Pass” or “Fail”** grade based on their attendance and performance during the Academic Orientation program. Satisfactory completion of the Academic Orientation program is required in order to be eligible to enroll in *First Year Seminar: English Language for Liberal Arts and English Composition* courses in the first semester at AUCA.* The Academic Orientation program is also part of Bard College requirements and students who do not meet this requirement do not qualify for Bard College diploma/certificate.

* Students who are not able to complete the program due to extenuating circumstances or who failed the program are given the option to enroll in the Academic Orientation program again the following year. The FYS program director will review on a case-by-case basis