

Course Requirements and Registration Priorities
School of Sciences and Humanities, Summer 2023

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
SSH											
Area Studies											
1	EAS 505	Research and Fieldwork Practicum	4	8				Eurasian Studies			
2	EAS 800	Doctoral Thesis in Eurasian Studies	70	140							
3	EAS 800-0	Dissertation Research in Eurasian Studies	0	0				Instructor's Permission Required. Registration through Add Course form only!			
Biological Science											
4	BIOL 392	Directed Study in Biology	3	6				Instructor's Permission Required. Registration through Add Course form only!			
5	BIOL 399	Biology Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
6	BIOL 490	Honors Thesis Research	0	0	BIOL 355 Critical Research Reasoning (1000) (B and above)			Instructor's Permission Required. Registration through Add Course form only!			
7	BIOL 599	Master's Thesis Research	0	0				Biological Sciences			
8	BIOL 800-0	Thesis Research	0	0				1 year PhD SSH Life Sciences	2 year PhD SSH Life Sciences	3 year PhD SSH Life Sciences, 4 year PhD SSH Life Sciences	
Chemistry											
9	CHEM 101L	General Chemistry I lab	1	2		CHEM 101 General Chemistry I (113) (C and above)		Biological Sciences, Chemistry, SoM, Undeclared SSH	SEDS, SMG, SSH		
10	CHEM 102	General Chemistry II	3	6	CHEM 101 General Chemistry I (113) (C and above)			Biological Sciences, Chemistry, SoM, Undeclared SSH	SEDS, SMG, SSH		
11	CHEM 189c	Independent Study	3	6				4 year UG SSH Chemistry	3 year UG SSH Chemistry	2 year UG SSH Chemistry	

12	CHEM 211L	Organic Chemistry I Lab	1	2	CHEM 101L General Chemistry I lab (179) (C and above)	CHEM 211 Organic Chemistry I (154) (C and above)		Biological Sciences, Chemistry, SoM, Undeclared SSH	SEDS, SMG, SSH		
13	CHEM 212L	Organic Chemistry II Lab	1	2	CHEM 211L Organic Chemistry I Lab (156) (C and above)	CHEM 212 Organic Chemistry II (443) (C and above) OR CHEM 292 Organic Chemistry for Biologists II (1901) (C and above)		Biological Sciences, Chemistry, SoM, Undeclared SSH	SEDS, SMG, SSH		
14	CHEM 560	Directed research in chemistry	0	0					Applied Mathematics, Biological Sciences, Chemistry, Economics, Eurasian Studies, Physics, Political Science and International Relations		
15	CHEM 798-0	Thesis Research	0	0				Chemistry			
Communication and Composition											
16	WCS 150	Rhetoric and Composition	3	6				SEDS, SMG, SSH, SoM			
Economics											
17	ECON 300	Research Assistance in Economics	1	2	ECON 101 Introduction to Microeconomics (379) (C- and above) AND ECON 102 Introduction to Macroeconomics (503) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
18	ECON 580	Research and Thesis	0	0				Instructor's Permission Required. Registration through Add Course form only!			
History, Philosophy and Religious Studies											
19	HST 100	History of Kazakhstan	3	6				SEDS, SMG, SSH, SoM			
20	HST 399	Independent Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			

21	PHIL 210	Ethics	3	6				Instructor's Permission Required. Registration through Add Course form only!			
History, Philosophy and Religious Studies, History, Philosophy and Religious Studies											
22	REL 110/HST 110	Introduction to World Religions	3	6				SEDS, SMG, SSH, SoM			
Kazakh Language and Turkic Studies											
23	KAZ 150	Basic Kazakh	3	6	KLL "[A2] Basic"			SEDS, SMG, SSH, SoM			
24	KAZ 201	Academic Kazakh I	3	6	KAZ 150 Basic Kazakh (1215) (C- and above) OR KLL "[B1.2] Intermediate"			SEDS, SMG, SSH, SoM			
25	KAZ 202	Academic Kazakh II	3	6	KAZ 201 Academic Kazakh I (4561) (C- and above) OR KLL "[B2.2] Upper-Interm."			SEDS, SMG, SSH, SoM			
26	KAZ 311	Professional Academic Communication	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KAZ 211 Academic Speaking in Kazakh (702) (C- and above) OR KAZ 212 Academic Writing in Kazakh (703) (C- and above) OR KLL "[C1.1] Advanced"			SEDS, SMG, SSH, SoM			
27	KAZ 349	Kazakh Mythology	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			SEDS, SMG, SSH, SoM			
Languages, Literature and Linguistics											
28	WLL 399	Independent Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
29	WLL 400	Research Assistance in Linguistics and Literature	1	2	LING 273 Survey of Research Methods in Linguistics (2158) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
Mathematics											
30	MATH 161	Calculus I	4	8				5 year UG SSH, 5 year UG SSH (pending graduation), Biological Sciences, Chemistry, Mathematics, Medical Sciences, Physics, SEDS, SMG	Undeclared SSH	SSH, SoM	
31	MATH 162	Calculus II	4	8	MATH 161 Calculus I (118) (C and above)			5 year UG SSH, 5 year UG SSH (pending graduation), Mathematics, Physics	Chemistry, SEDS, SMG	SSH, SoM	
32	MATH 274	Introduction to Differential Equations	3	6	MATH 162 Calculus II (170) (C and above)			Chemistry, Mathematics, Physics, Robotics Engineering, Robotics and Mechatronics	SEDS, SMG, SSH, SoM		

33	MATH 497	Directed Study in Mathematics I	3	6				Instructor's Permission Required. Registration through Add Course form only!			
34	MATH 498	Directed Study in Mathematics II	3	6				Instructor's Permission Required. Registration through Add Course form only!			
35	MATH 599	Thesis Research Preparation	0	0				Instructor's Permission Required. Registration through Add Course form only!			
36	MATH 700-0	Thesis Research	0	0				Instructor's Permission Required. Registration through Add Course form only!			
Physics											
37	PHYS 161	Physics I for Scientists and Engineers with Laboratory	4	8		MATH 161 Calculus I (118) (C and above)	PHYS 171 Physics I for Physics Majors with Laboratory (1401) (C- and above)	SEDS, SMG, SSH, SoM			
38	PHYS 162	Physics II for Scientists and Engineers with Laboratory	4	8	PHYS 161 Physics I for Scientists and Engineers with Laboratory (116) (C- and above) OR PHYS 151 Introductory Physics I with Lab (649) (C- and above)		PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above)	SEDS, SMG, SSH, SoM			
39	PHYS 299	Research project and internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
40	PHYS 399	Physics Research Project	3	6				Instructor's Permission Required. Registration through Add Course form only!			
41	PHYS 600	Thesis Research	0	0				Instructor's Permission Required. Registration through Add Course form only!			
42	PHYS 700-0	Thesis Research	0	0				Physics			
Political Science and International Relations											

43	PLS 327	Contemporary Political Theory	3	6	PLS 120 Introduction to Political Theory (512) (C- and above)		PHIL 131 Introduction to Contemporary Political Philosophy (4032) (C- and above)	5 year UG SSH Political Sciences and International Relations	4 year UG SSH Political Sciences and International Relations	Political Science and International Relations	
44	PLS 395	Independent Study	3	6	PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
45	PLS 426	Hannah Arendt on Power, Violence, and Revolution	3	6	PLS 120 Introduction to Political Theory (512) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
46	PLS 441	Advanced Topics in Comparative Politics	3	6	PLS 140 Introduction to Comparative Politics (223) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
47	PLS 495	Research Practicum in PSIR	1	2	PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
48	PLS 526	Hannah Arendt on Power, Violence, and Revolution	4	8			PLS 426 Hannah Arendt on Power, Violence, and Revolution (5398) (C- and above)	Instructor's Permission Required. Registration through Add Course form only!			
49	PLS 597	Research for Thesis	6	12				1 year Gr SSH Political Science and International Relations			
50	PLS 599	MA Thesis II	10	20							
SSH											
51	SSH 300	School of Sciences and Humanities Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
52	SSH 301	School of Sciences and Humanities Internship: Second Experience	3	6				Instructor's Permission Required. Registration through Add Course form only!			
53	SSH 398	Independent Study	1	2				Instructor's Permission Required. Registration through Add Course form only!			

Sociology and Anthropology

54	ANT 345	Archaeology Field School	3	6	ANT 110 Introduction to Sociocultural Anthropology (501) (C and above) OR ANT 120 Anthropology Theory (137) (C and above) OR ANT 120 Sociology Theory/Anthropology Theory (135) (C and above) OR ANT 140 World Prehistory (227) (C and above) OR ANT 160 Introduction to Biological Anthropology (161) (C and above) OR ANT 101 Being Human: An Introduction to Four Field Anthropology (2960) (C and above)			Instructor's Permission Required. Registration through Add Course form only!			
55	ANT 400	Research Assistance in Anthropology	1	2				Instructor's Permission Required. Registration through Add Course form only!			
56	ANT 404	Research Assistance in Anthropology	3	6				Instructor's Permission Required. Registration through Add Course form only!			
57	SOC 217	Sociology of the Family	3	6				Sociology	SEDS, SMG, SSH, SoM		
58	SOC 400	Research Assistance in Sociology	1	2				Instructor's Permission Required. Registration through Add Course form only!			