

**Course Requirements and Registration Priorities
School of Sciences and Humanities (Master), Fall 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 500	Introduction to Eurasia	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
2	EAS 501	General Methodology	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
3	EAS 503	Thesis I	7.5	15	EAS 500 Introduction to Eurasia (1632) (C- and above) AND EAS 501 General Methodology (1633) (C- and above) AND EAS 502 Disciplinary Methodology (1379) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
4	EAS 511	Independent Study in Eurasian Studies	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH		
5	EAS 513	Critical Issues in Eurasian Studies	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH		
6	EAS 514	Topics in Eurasian Social Sciences	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH		
Area Studies, Political Science and International Relations, Sociology and Anthropology											
7	SOC 514/PLS 514/EAS 506	Qualitative Research Methods	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
Biological Science											
8	BIOL 520	Statistical Methods in Life Sciences	3	6				Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	
9	BIOL 550	Structural and Molecular Biology in Health and Disease	3	6				Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	
10	BIOL 560	Molecular Biology of Prokaryotic Cells	3	6				Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	
11	BIOL 592	Graduate Research Seminar	3	6				Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	
12	BIOL 599	Master's Thesis Research	0	0				Biological Sciences, Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	

13	BIOL 631	Synthetic Biology	3	6				Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	
14	BIOL 632	Drug Discovery and Design	3	6				Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	
15	BIOL 634	Advanced Cancer Biology	3	6				Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	
16	BIOL 670	Gene Therapy	3	6				Biological Sciences and Technologies	SSH	GSB, GSE, GSPP, SEDS	
17	BIOL 691	Master's Thesis Research Proposal	3	6				2 year Gr SSH Biological Sciences and Technologies, Biological Sciences			
Chemistry											
18	CHEM 510	Principles of Physical Chemistry	3	6				Chemistry	SSH	SEDS, SMG, SoM	
19	CHEM 518	Applied Polymer Science	4	8				Chemistry	SSH	SEDS, SMG, SoM	
20	CHEM 520	Applied Analytical Chemistry	3	6				Chemistry	SSH	SEDS, SMG, SoM	
21	CHEM 522	Analytical Environmental Chemistry	3	6	CHEM 520 Applied Analytical Chemistry (5267) (C and above)			Chemistry	SSH	SEDS, SMG, SoM	
22	CHEM 530	Inorganic Structures and Reaction Mechanisms	3	6				Chemistry	SSH	SEDS, SMG, SoM	
23	CHEM 531	Nanochemistry and Functional Nanomaterials	3	6				Instructor's Permission Required. Registration through Add Course form only!			
24	CHEM 543	Structural Identification of Organic Compounds	3	6				Chemistry	SSH	SEDS, SMG, SoM	
25	CHEM 591	Scientific Methods in Chemistry	3	6				Chemistry	SSH	SEDS, SMG, SoM	
26	CHEM 691	Thesis Proposal	3	6				Chemistry	SSH	SEDS, SMG, SoM	
Communication and Composition											
27	WCS 501	Science Communication	3	6				SEDS, SMG, SSH, SoM			
Communication and Composition, Languages, Literature and Linguistics											
28	WLL 562/WCS 562	Creative Nonfiction	4	8				Eurasian Studies			
Economics											
29	ECON 501	Microeconomics I	4	8				Economics	GSB		
30	ECON 502	Macroeconomics I	4	8				Economics	GSB		

31	ECON 511	Statistics	4	8				Economics		
32	ECON 512	Mathematical Economics	4	8				Economics	GSB	
33	ECON 513	Econometrics II Time Series	4	8	ECON 531 Econometrics (2505) (C- and above)			Economics		
34	ECON 528	Wages and the Labor Market	4	8	ECON 521 Microeconomic Theory II (2506) (C- and above) AND ECON 531 Econometrics (2505) (C- and above)			Economics		
35	ECON 532	Applied Econometrics	4	8				Economics		
36	ECON 533	Econometrics II Panel Data	4	8	ECON 531 Econometrics (2505) (C- and above)			Economics		
37	ECON 589	Thesis I	4	8				Economics		
History, Philosophy and Religious Studies										
38	HST 524	Global Histories	4	8				SSH		
Kazakh Language and Turkic Studies										
39	TUR 575	Advanced Topics in Turkic Studies	4	8						
Mathematics										
40	MATH 510	Measure Theory and Applications	3	6				Applied Mathematics	SEDS, SMG, SSH, SoM	
41	MATH 517	Scientific Modeling and Simulation with Mathematics	3	6				Applied Mathematics	SEDS, SMG, SSH, SoM	
42	MATH 518	Applied Finite Element Analysis	3	6				Applied Mathematics	SEDS, SMG, SSH, SoM	
43	MATH 519	Scientific Computing	3	6				Applied Mathematics	SEDS, SMG, SSH, SoM	
44	MATH 540	Statistical Learning	3	6				Applied Mathematics	SEDS, SMG, SSH, SoM	
45	MATH 541	Data Analysis and Statistical Learning	3	6	MATH 540 Statistical Learning (2340) (B- and above)			Applied Mathematics	SEDS, SMG, SSH, SoM	
46	MATH 542	Statistical Programming	3	6				Applied Mathematics	SEDS, SMG, SSH, SoM	
47	MATH 592	Research Seminar	3	6				Applied Mathematics		
48	MATH 680	Potential Theory and Polynomial Approximation	3	6				Applied Mathematics	SEDS, SMG, SSH, SoM	

Physics

49	PHYS 505	Classical Mechanics	3	6			Physics	SEDS, SMG, SSH, SoM		
50	PHYS 515	Classical Electrodynamics	3	6			Physics	SEDS, SMG, SSH, SoM		
51	PHYS 530	Solid State Physics	4	8			Physics	SEDS, SMG, SSH, SoM		
52	PHYS 550	Advanced Mathematical Physics	3	6			Physics	SEDS, SMG, SSH, SoM		
53	PHYS 563	General Relativity	3	6			Physics	SEDS, SMG, SSH, SoM		
54	PHYS 591	Research Methods	3	6			Physics	SEDS, SMG, SSH, SoM		
55	PHYS 600	Thesis Research	0	0			Physics			

Political Science and International Relations

56	PLS 510	Advanced Research I	4	8			Political Science and International Relations	SEDS, SMG, SSH, SoM		
57	PLS 522	Just War Theory	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
58	PLS 523	Immigration Theory	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
59	PLS 540	Core Seminar in Comparative Politics	4	8			Political Science and International Relations			
60	PLS 541	Advanced Topics in Comparative Politics	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
61	PLS 550	Core Seminar in IR	4	8			Political Science and International Relations			
62	PLS 558	International Organization	4	8	PLS 550 Core Seminar in IR (1372) (C- and above)		Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
63	PLS 581	Independent Study in Political Science	4	8			Instructor's Permission Required. Registration through Add Course form only!			
64	PLS 598	MA Thesis I	6	12			Political Science and International Relations			

Sociology and Anthropology

65	ANT 521	Sport and Construction of Identity	4	8			SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
66	ANT 585	Postcolonial Theory and Its Application in Eurasia	4	8			SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		

67	SOC 515	Social Problems and Issues in Eurasia	4	8				SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
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