

**Course Requirements and Registration Priorities
School of Sciences and Humanities (Master), Fall 2022**

#	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				Instructor's Permission Required. Registration through Add Course form only!			
5	EAS 512	Topics in Eurasian Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!			
Area Studies, Political Science and International Relations, Sociology and Anthropology											
6	SOC 514/PLS 514/EAS 506	Qualitative Research Methods	4	8				SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
Biological Science											
7	BIOL 520	Statistical Methods in Life Sciences	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
8	BIOL 550	Structural and Molecular Biology in Health and Disease	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
9	BIOL 560	Molecular Biology of Prokaryotic Cells	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
10	BIOL 592	Graduate Research Seminar	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	

11	BIOL 599	Master's Thesis Research	0	0				1 year Gr SSH Biological Sciences and Technologies, 2 year Gr SSH Biological Sciences and Technologies			
12	BIOL 631	Synthetic Biology	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
13	BIOL 632	Drug Discovery and Design	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
14	BIOL 634	Advanced Cancer Biology	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
15	BIOL 670	Gene Therapy	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
16	BIOL 691	Master's Thesis Research Proposal	3	6				2 year Gr SSH Biological Sciences and Technologies			
Chemistry											
17	CHEM 510	Principles of Physical Chemistry	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
18	CHEM 518	Applied Polymer Science	4	8				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
19	CHEM 520	Applied Analytical Chemistry	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
20	CHEM 522	Analytical Environmental Chemistry	3	6	CHEM 520 Applied Analytical Chemistry (5267) (C and above)			Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
21	CHEM 530	Inorganic Structures and Reaction Mechanisms	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
22	CHEM 531	Nanochemistry and Functional Nanomaterials	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
23	CHEM 543	Structural Identification of Organic Compounds	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
24	CHEM 591	Scientific Methods in Chemistry	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
25	CHEM 691	Thesis Proposal	3	6				Chemistry			
Communication and Composition											
26	WCS 501	Science Communication	3	6				SSH	SMG, SoM		
Communication and Composition, Languages, Literature and Linguistics											
27	WLL 562/WCS 562	Creative Nonfiction	4	8				Instructor's Permission Required. Registration through Add Course form only!			
Economics											
28	ECON 501	Microeconomics I	4	8				Economics	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	

29	ECON 502	Macroeconomics I	4	8				Economics	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
30	ECON 503	Introduction to Contract Theory and Auctions	4	8				Economics	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
31	ECON 511	Statistics	4	8				Economics	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
32	ECON 512	Mathematical Economics	4	8				Economics	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
33	ECON 532	Applied Econometrics	4	8				Economics	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
34	ECON 533	Econometrics II Panel Data	4	8	ECON 531 Econometrics (2505) (C- and above)			Economics	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
35	ECON 589	Thesis I	4	8							
History, Philosophy and Religious Studies											
36	HST 533	Empire, Nation and Identity in Nineteenth-Century Eurasia	4	8				SSH		GSB, GSE, GSPP, SEDS, SMG, SoM	
History, Philosophy and Religious Studies, Languages, Literature and Linguistics											
37	HST 541/WLL 541	Utopias in Russian and Soviet Literature	4	8				SSH		GSB, GSE, GSPP, SEDS, SMG, SoM	
Kazakh Language and Turkic Studies											
38	TUR 575	Advanced Topics in Turkic Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!			
Mathematics											
39	MATH 510	Measure Theory and Applications	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
40	MATH 512	Optimization Methods and Techniques	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
41	MATH 518	Applied Finite Element Analysis	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
42	MATH 519	Scientific Computing	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
43	MATH 540	Statistical Learning	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
44	MATH 551	Advanced Numerical Methods	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
45	MATH 576	Numerical Methods for Partial Differential Equations	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
46	MATH 592	Research Seminar	3	6				Applied Mathematics			
47	MATH 676	Advanced Partial Differential Equations with Applications	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	

Physics

48	PHYS 505	Classical Mechanics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
49	PHYS 511	Computational Modeling and Simulation	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
50	PHYS 515	Classical Electrodynamics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
51	PHYS 530	Solid State Physics	4	8			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
52	PHYS 550	Advanced Mathematical Physics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
53	PHYS 591	Research Methods	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
54	PHYS 600	Thesis Research	0	0			Physics		

Political Science and International Relations

55	PLS 511	Advanced Research I	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
56	PLS 515	Maximum Likelihood Models	4	8	PLS 510 Advanced Research I (1946) (C- and above)		Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
57	PLS 516	Experimental Political Science	4	8	PLS 511 Advanced Research I (1631) (C- and above)		Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
58	PLS 532	Comparative Democratization	4	8	PLS 540 Core Seminar in Comparative Politics (1374) (C- and above)		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	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
60	PLS 541	Advanced Topics in Comparative Politics	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
61	PLS 545	Political Violence	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
62	PLS 550	Core Seminar in IR	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
63	PLS 598	MA Thesis I	6	12			Instructor's Permission Required. Registration through Add Course form only!		

Sociology and Anthropology

64	SOC 510	Social Inequality	4	8				SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
65	SOC 515	Social Problems and Issues in Eurasia	4	8				SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		