

Course Requirements and Registration Priorities
School of Sciences and Humanities (Master), Spring 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 502	Disciplinary Methodology	4	8				Eurasian Studies			
2	EAS 504	Thesis II	12.5	25	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) AND EAS 503 Thesis I (2141) (C- and above)			Eurasian Studies			
3	EAS 511	Independent Study in Eurasian Studies	4	8				Eurasian Studies			
4	EAS 512	Topics in Eurasian Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!			
5	EAS 513	Critical Issues in Eurasian Studies	4	8				Eurasian Studies			
6	EAS 514	Topics in Eurasian Social Sciences	4	8				Eurasian Studies			
Biological Science											
7	BIOL 502	Research Methods and Bioethics	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
8	BIOL 570	Advanced Biotechnology	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
9	BIOL 580	Applied Bioinformatics	3	6	BIOL 520 Statistical Methods in Life Sciences (1203) (C and above)			Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
10	BIOL 590	Research Design and Project Planning	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
11	BIOL 591	Cellular Biophysics	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
12	BIOL 599	Master's Thesis Research	0	0				1 year Gr SSH Biological Sciences and Technologies			

13	BIOL 630	Advanced Neuroscience	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
14	BIOL 637	Fundamentals of Advanced Microscopy	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
15	BIOL 692	Master's Thesis	15	30	BIOL 691 Master's Thesis Research Proposal (5676) (B- and above)			Biological Sciences			
Chemistry											
16	CHEM 511	Theoretical Chemistry	3	6	CHEM 510 Principles of Physical Chemistry (5266) (C and above)			Chemistry	SSH	SEDS, SMG, SoM	
17	CHEM 540	Organic Reactions and Mechanisms	3	6				Chemistry	SSH	SEDS, SMG, SoM	
18	CHEM 550	Selected Topics in Chemistry	3	6				Chemistry	SSH	SEDS, SMG, SoM	
19	CHEM 560	Directed research in chemistry	0	0				Instructor's Permission Required. Registration through Add Course form only!			
20	CHEM 592	Chemistry Seminar	3	6				Chemistry	SSH	SEDS, SMG, SoM	
21	CHEM 692	MSc Thesis in Chemistry	18	36	CHEM 691 Thesis Proposal (5858) (C- and above)			Chemistry			
Communication and Composition											
22	WCS 501	Science Communication	3	6				SSH	SMG, SoM		
Economics											
23	ECON 521	Microeconomic Theory II	4	8	ECON 501 Microeconomics I (2187) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)			Economics	SSH		
24	ECON 522	Macroeconomics II	4	8	ECON 502 Macroeconomics I (2186) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)			Economics	SSH		
25	ECON 524	Research Methodology	4	8	ECON 501 Microeconomics I (2187) (C- and above) AND ECON 502 Macroeconomics I (2186) (C- and above) AND ECON 511 Statistics (2188) (C- and above)	ECON 531 Econometrics (2505) (D and above)		Economics	SSH		

26	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	SSH		
27	ECON 531	Econometrics	4	8	ECON 511 Statistics (2188) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)			Economics	SSH		
28	ECON 590	Thesis II	8	16	ECON 589 Thesis I (3714) (P)			Economics	SSH		
History, Philosophy and Religious Studies, History, Philosophy and Religious Studies											
29	HST 562/REL 562	History of Islam under Russian Rule	4	8				SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
History, Philosophy and Religious Studies, Sociology and Anthropology											
30	ANT 535/REL 535	The Archaeology of Ritual	4	8				Eurasian Studies			
Kazakh Language and Turkic Studies											
31	TUR 575	Advanced Topics in Turkic Studies	4	8				Eurasian Studies			
Mathematics											
32	MATH 514	Operations Research	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
33	MATH 541	Data Analysis and Statistical Learning	3	6	MATH 540 Statistical Learning (2340) (B- and above)			Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
34	MATH 571	Advanced Nonlinear Differential Equations	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
35	MATH 582	Mathematical Biology	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
36	MATH 682	Applied Functional Analysis	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
37	MATH 691	Thesis Proposal	3	6	MATH 592 Research Seminar (5760) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
38	MATH 692	Thesis	15	30	MATH 691 Thesis Proposal (5769) (P)			Instructor's Permission Required. Registration through Add Course form only!			
Physics											
39	PHYS 510	Quantum Mechanics	3	6				Physics			
40	PHYS 520	Statistical Physics	3	6				Physics			

41	PHYS 565	Advanced Physics Laboratory	4	8				Physics			
42	PHYS 570	Introduction to Optoelectronics	4	8				Physics			
43	PHYS 692	Thesis	21	42				Instructor's Permission Required. Registration through Add Course form only!			
Political Science and International Relations											
44	PLS 510	Advanced Research I	4	8				Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
45	PLS 522	Just War Theory	4	8				Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
46	PLS 526	Hannah Arendt on Power, Violence, and Revolution	4	8			PLS 426 Hannah Arendt on Power, Violence, and Revolution (5398) (C- and above)	Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
47	PLS 534	Text Analysis and Political Communication in the Information Age	4	8	PLS 510 Advanced Research I (1946) (C- and above) AND PLS 511 Advanced Research I (1631) (C- and above)			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
48	PLS 541	Advanced Topics in Comparative Politics	4	8				Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
49	PLS 551	Advanced Topics in International Relations	4	8				Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
50	PLS 565	Politics of International Finance	4	8				Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
51	PLS 596	Thesis Preparation	2	4	PLS 540 Core Seminar in Comparative Politics (1374) (C+ and above) OR PLS 550 Core Seminar in IR (1372) (C+ and above) AND PLS 511 Advanced Research I (1631) (C+ and above)			1 year Gr SSH Political Science and International Relations			
52	PLS 599	MA Thesis II	10	20				2 year Gr SSH Political Science and International Relations			
Sociology and Anthropology											

53	SOC 511	Citizenship in Eurasia: Political Sociology of Civic Belonging	4	8				4 year UG SSH Sociology, Economics, Eurasian Studies, Political Science and International Relations			
54	SOC 515	Social Problems and Issues in Eurasia	4	8				4 year UG SSH Sociology, Economics, Eurasian Studies, Political Science and International Relations			