

**Course Requirements and Registration Priorities
School of Sciences and Humanities (Master), Fall 2020**

#	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)			2 year Gr SSH Eurasian Studies			
4	EAS 511	Independent Study 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											
5	SOC 514/PLS 514/EAS 506	Qualitative Research Methods	4	8				Eurasian Studies, Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
Biological Science											
6	BIOL 520	Statistical Methods in Life Sciences	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
7	BIOL 550	Structural and Molecular Biology in Health and Disease	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
8	BIOL 560	Molecular Biology of Prokaryotic Cells	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
9	BIOL 592	Graduate Research Seminar	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
10	BIOL 599	Master's Thesis Research	0	0				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
11	BIOL 631	Synthetic Biology	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
12	BIOL 634	Advanced Cancer Biology	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	

13	BIOL 635	Hot Topics in Life Sciences	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
14	BIOL 670	Gene Therapy	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
15	BIOL 691	Master's Thesis Research Proposal	3	6				2 year Gr SSH Biological Sciences and Technologies			
Chemistry											
16	CHEM 510	Principles of Physical Chemistry	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
17	CHEM 520	Applied Analytical Chemistry	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
18	CHEM 522	Analytical Environmental Chemistry	3	6	CHEM 520 Applied Analytical Chemistry (5267) (C and above)			Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
19	CHEM 530	Inorganic Structures and Reaction Mechanisms	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
20	CHEM 531	Nanochemistry and Functional Nanomaterials	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
21	CHEM 541	Medicinal Chemistry and Drug Design	3	6	CHEM 540 Organic Reactions and Mechanisms (5460) (C and above)			Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
22	CHEM 543	Structural Identification of Organic Compounds	3	6				Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
23	CHEM 550	Selected Topics in Chemistry	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				SMG, SSH, SoM			
Economics											
27	ECON 501	Microeconomics I	4	8				Economics	SEDS, SMG, SSH, SoM		
28	ECON 502	Macroeconomics I	4	8				Economics	SEDS, SMG, SSH, SoM		
29	ECON 503	Introduction to Contract Theory and Auctions	4	8				Economics	SEDS, SMG, SSH, SoM		
30	ECON 505	Behavioral and Experimental Economics	4	8				Economics	SEDS, SMG, SSH, SoM		
31	ECON 511	Statistics	4	8				Economics	SEDS, SMG, SSH, SoM		

32	ECON 512	Mathematical Economics	4	8				Economics	SEDS, SMG, SSH, SoM		
33	ECON 515	Industrial Organization	4	8	ECON 531 Econometrics (2505) (C- and above)			Economics	SEDS, SMG, SSH, SoM		
34	ECON 517	Development Economics	4	8				Economics	SEDS, SMG, SSH, SoM		
35	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	SEDS, SMG, SSH, SoM		
36	ECON 532	Applied Econometrics	4	8				Economics	SEDS, SMG, SSH, SoM		
37	ECON 589	Thesis I	4	8				2 year Gr SSH Economics			
History, Philosophy and Religious Studies											
38	HST 535	Stalinist Central Asia	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
History, Philosophy and Religious Studies, Kazakh Language and Turkic Studies											
39	HST 554/TUR 554	Turkestan in the Nineteenth Century	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
Languages, Literature and Linguistics											
40	LING 570	Multilingualism and Language Contact	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
Mathematics											
41	MATH 510	Measure Theory and Applications	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 542	Statistical Programming	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
45	MATH 571	Advanced Nonlinear Differential Equations	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
46	MATH 592	Research Seminar	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
47	MATH 676	Advanced Partial Differential Equations with Applications	3	6				Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
48	MATH 691	Thesis Proposal	3	6	MATH 592 Research Seminar (5760) (C- and above)			2 year Gr SSH Applied Mathematics			

Physics

49	PHYS 502	Teaching Practicum	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
50	PHYS 505	Classical Mechanics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
51	PHYS 511	Computational Modeling and Simulation	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
52	PHYS 515	Classical Electrodynamics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
53	PHYS 530	Solid State Physics	4	8			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
54	PHYS 550	Advanced Mathematical Physics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
55	PHYS 591	Research Methods	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM
56	PHYS 600	Thesis Research	0	0			Physics		

Political Science and International Relations

57	PLS 511	Advanced Research I	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
58	PLS 512	Scientific Research in International Relations	4	8	PLS 511 Advanced Research I (1631) (C- and above) AND PLS 510 Advanced Research I (1946) (C- and above) AND PLS 550 Core Seminar in IR (1372) (C- and above)		Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
59	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	
60	PLS 540	Core Seminar in Comparative Politics	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
61	PLS 549	Politics and Governance of the Gulf	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 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	

64	PLS 581	Independent Study in Political Science	4	8				Instructor's Permission Required. Registration through Add Course form only!			
65	PLS 598	MA Thesis I	6	12				Political Science and International Relations			
SSH											
66	SSH 503	Laboratory Practicum	3	6	SST 501 Teaching and Learning (2260) (C- and above) AND SEDS 502 Teaching Practicum (2824) (C- and above)			Applied Mathematics			
Sociology and Anthropology											
67	ANT 521	Sport and Construction of Identity	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
68	SOC 510	Social Inequality	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		