

**Course Requirements and Registration Priorities  
School of Sciences and Humanities (Master), Fall 2019**

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
<b>SSH</b>											
<b>Area Studies</b>											
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			
<b>Area Studies, Political Science and International Relations, Sociology and Anthropology</b>											
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		
<b>Biological Science</b>											
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 631	Synthetic Biology	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
10	BIOL 632	Drug Discovery and Design	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
11	BIOL 635	Hot Topics in Life Sciences	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
12	BIOL 670	Gene Therapy	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
<b>Chemistry</b>											

13	CHEM 510	Principles of Physical Chemistry	3	6			Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
14	CHEM 520	Applied Analytical Chemistry	3	6			Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
15	CHEM 530	Inorganic Structures and Reaction Mechanisms	3	6			Chemistry	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
<b>Economics</b>										
16	ECON 501	Microeconomics I	4	8			Economics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
17	ECON 502	Macroeconomics I	4	8			Economics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
18	ECON 503	Introduction to Contract Theory and Auctions	4	8			Economics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
19	ECON 505	Behavioral and Experimental Economics	4	8			Economics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
20	ECON 511	Statistics	4	8			Economics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
21	ECON 512	Mathematical Economics	4	8			Economics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
22	ECON 517	Development Economics	4	8			Economics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
23	ECON 532	Applied Econometrics	4	8			Economics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
24	ECON 589	Thesis I	4	8			2 year Gr SSH Economics			
<b>History, Philosophy and Religious Studies</b>										
25	HST 520	The Russian Empire in Asia and its neighbours, 1552-1919	4	8			Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
<b>Kazakh Language and Turkic Studies</b>										
26	TUR 575	Advanced Topics in Turkic Studies	4	8			GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
<b>Languages, Literature and Linguistics</b>										
27	LING 572	Language Ideologies	4	8			Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
28	WLL 550	Laughter	4	8			Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
<b>Mathematics</b>										
29	MATH 514	Operations Research	3	6			Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
30	MATH 517	Scientific Modeling and Simulation with Mathematics	3	6			Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
31	MATH 519	Scientific Computing	3	6			Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
32	MATH 540	Statistical Learning	3	6			Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	

33	MATH 542	Statistical Programming	3	6			Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
34	MATH 576	Numerical Methods for Partial Differential Equations	3	6			Applied Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
<b>Physics</b>										
35	PHYS 505	Classical Mechanics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
36	PHYS 511	Computational Modeling and Simulation	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
37	PHYS 515	Classical Electrodynamics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
38	PHYS 530	Solid State Physics	4	8			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
39	PHYS 550	Advanced Mathematical Physics	3	6			Physics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
<b>Political Science and International Relations</b>										
40	PLS 511	Advanced Research I	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
41	PLS 531	Politics and Governance of the Russian Federation	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
42	PLS 540	Core Seminar in Comparative Politics	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
43	PLS 546	The Politics of Immigration Control	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
44	PLS 550	Core Seminar in IR	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
45	PLS 555	The Politics of Arms in International Relations	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
46	PLS 565	Politics of International Finance	4	8			Political Science and International Relations	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
47	PLS 598	MA Thesis I	6	12			Political Science and International Relations			
<b>SEDS</b>										
<b>Computer Science</b>										
48	CSCI 693	Thesis Proposal	3	6	SEDS 591 Research Methods (3184) (C- and above)		SEDS, SSH			
49	SEDS 503	Laboratory Practicum	3	6	SEDS 502 Teaching Practicum (2824) (P)		SEDS, SSH			
50	SEDS 591	Research Methods	3	6			SEDS, SSH			