

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

#	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 502	Disciplinary Methodology	4	8				SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
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)			GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
3	EAS 511	Independent Study in Eurasian Studies	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
<b>Biological Science</b>											
4	BIOL 570	Advanced Biotechnology	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
5	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	
6	BIOL 590	Research Design and Project Planning	3	6				1 year Gr SSH Biological Sciences and Technologies			
7	BIOL 591	Cellular Biophysics	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
<b>Chemistry</b>											
8	CHEM 511	Theoretical Chemistry	3	6	CHEM 510 Principles of Physical Chemistry (5266) (C and above)			Chemistry	Biological Sciences	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
9	CHEM 540	Organic Reactions and Mechanisms	3	6				Chemistry	Biological Sciences	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
<b>Economics</b>											
10	ECON 516	Empirical Industrial Organization	4	8	ECON 501 Microeconomics I (2187) (C- and above) AND ECON 531 Econometrics (2505) (C- and above)			Economics			

11	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			
12	ECON 522	Macroeconomics II	4	8	ECON 502 Macroeconomics I (2186) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)			Economics			
13	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			
14	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			
15	ECON 531	Econometrics	4	8	ECON 511 Statistics (2188) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)			Economics			
16	ECON 543	Topics in Macroeconomic Theory	4	8	ECON 502 Macroeconomics I (2186) (C- and above)			Economics			
17	ECON 590	Thesis II	8	16	ECON 589 Thesis I (3714) (P)			2 year Gr SSH Economics			
<b>History, Philosophy and Religious Studies</b>											
18	HST 524	Global Histories	4	8				SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
<b>History, Philosophy and Religious Studies, Kazakh Language and Turkic Studies</b>											
19	HST 552/TUR 552	Proseminar in Eurasian History, 552-1917	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
<b>Kazakh Language and Turkic Studies</b>											
20	TUR 575	Advanced Topics in Turkic Studies	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
<b>Languages, Literature and Linguistics</b>											
21	WLL 501	Advanced Topics in World Literature	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
<b>Mathematics</b>											
22	MATH 512	Optimization Methods and Techniques	3	6				Applied Mathematics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		

23	MATH 541	Data Analysis and Statistical Learning	3	6	MATH 540 Statistical Learning (2340) (B- and above)			Applied Mathematics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
24	MATH 551	Advanced Numerical Methods	3	6				Applied Mathematics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
<b>Physics</b>											
25	PHYS 510	Quantum Mechanics	3	6				Physics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
26	PHYS 520	Statistical Physics	3	6				Physics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
27	PHYS 574	Lasers and Photonics	3	6				Physics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
28	SST 501	Teaching and Learning	3	6				SSH			
<b>Political Science and International Relations</b>											
29	PLS 510	Advanced Research I	4	8				Political Science and International Relations	Eurasian Studies		
30	PLS 522	Just War Theory	4	8				Political Science and International Relations	Eurasian Studies		
31	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	Eurasian Studies		
32	PLS 541	Advanced Topics in Comparative Politics	4	8				Political Science and International Relations	Eurasian Studies		
33	PLS 545	Political Violence	4	8				Political Science and International Relations	Eurasian Studies		
34	PLS 569	International Relations of Eurasia	4	8				Political Science and International Relations	Eurasian Studies		
35	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)			Political Science and International Relations			
36	PLS 599	MA Thesis II	10	20				Political Science and International Relations			
<b>Sociology and Anthropology</b>											
37	ANT 510	Ethnography, Fiction, Memoir	4	8				Eurasian Studies, SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
<b>SEDS</b>											
<b>Computer Science</b>											

38	CSCI 694	Thesis	15	30				Applied Mathematics, Biological Sciences, Chemistry, Computer Science, Physics, Robotics	SEDS		
39	SEDS 502	Teaching Practicum	3	6				Applied Mathematics, Computer Science, Physics, Robotics	SEDS		
40	SEDS 504	Innovation and Entrepreneurship	3	6				Applied Mathematics, Biological Sciences, Chemistry, Computer Science, Economics, Eurasian Studies, Physics, Political Science and International Relations, Robotics	SEDS		
41	SEDS 592	Research Seminar	3	6				Applied Mathematics, Biological Sciences, Chemistry, Computer Science, Data Science, Physics, Robotics	SEDS		