

Course Requirements and Registration Priorities
School of Sciences and Humanities (Graduate: Master), Spring 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 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			
Biological Science											
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 Analysis in Life Sciences	3	6				1 year Gr SSH Biological Sciences			
7	BIOL 591	Cellular Biophysics	3	6				Biological Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
Chemistry											
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	
Economics											
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			
History, Philosophy and Religious Studies											
18	HST 524	Global Histories	4	8				SSH	GSB, GSE, GSPP, SEDS, SMG, SoM		
History, Philosophy and Religious Studies, Kazakh Language and Turkic Studies											
19	HST 552/TUR 552	Proseminar in Eurasian History, 552-1917	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
Kazakh Language and Turkic Studies											
20	TUR 575	Advanced Topics in Turkic Studies	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
Languages, Literature and Linguistics											
21	WLL 501	Advanced Topics in World Literature	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
Mathematics											
22	MATH 512	Optimization Methods and Techniques	3	6	MATH 517 Scientific Modeling and Simulation with Mathematics (2341) (B- and above)			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	MATH 517 Scientific Modeling and Simulation with Mathematics (2341) (B- and above)		Applied Mathematics	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
Physics										
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			
29	SST 502	Teaching Practicum	3	6	SST 501 Teaching and Learning (2260) (C- and above)		Applied Mathematics, Computer Science, Physics, Robotics	SEDS		
30	SST 504	Innovation & Entrepreneurship	3	6			Applied Mathematics, Biological Sciences, Chemistry, Computer Science, Economics, Eurasian Studies, Physics, Political Science and International Relations, Robotics	SEDS		
31	SST 592	Research Seminar	3	6			Applied Mathematics, Biological Sciences, Chemistry, Computer Science, Data Science, Physics, Robotics	SEDS		
32	SST 692	Thesis	15	30			Applied Mathematics, Biological Sciences, Chemistry, Computer Science, Physics, Robotics	SEDS		
Political Science and International Relations										
33	PLS 510	Advanced Research II	4	8	PLS 511 Advanced Research I (1631) (D and above)		Political Science and International Relations	Eurasian Studies		
34	PLS 522	Just War Theory	4	8			Political Science and International Relations	Eurasian Studies		

35	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		
36	PLS 541	Advanced Topics in Comparative Politics	4	8				Political Science and International Relations	Eurasian Studies		
37	PLS 545	Political Violence	4	8				Political Science and International Relations	Eurasian Studies		
38	PLS 569	International Relations of Eurasia	4	8				Political Science and International Relations	Eurasian Studies		
39	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			
40	PLS 599	MA Thesis II	10	20				Political Science and International Relations			
Sociology and Anthropology											
41	ANT 510	Ethnography, Fiction, Memoir	4	8				Eurasian Studies, SSH	GSE, GSE, GSPP, SEDS, SMG, SoM		