

Course Requirements and Registration Priorities (Master), Spring 2017

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
SHSS											
Political Science and International Relations											
1	PLS 521	Theories of Political Obligations	4	8							
GSB											
GSB											
2	MBA 06	Global Financial management	2	4							
3	MBA 10	Foundations of Strategy	2	4							
4	MBA 12	Operations Management	2	4							
5	MBA 13	Macroeconomics	2	4							
6	MBA 14	Decision Models	2	4							
7	MBA 15	Corporate Finance	2	4							
8	MBA 16	Entrepreneurship	2	4							
9	MBA 18	Financial Statement Analysis	2	4							
GSPP											
Master in Public Administration											
10	MPA 608	Strategic Management and Leadership	4	8							
11	MPA 615	Law, institutions and development	3	6							
12	MPA 616	Development, Industrial and Finance Policies	3	6							
13	MPA 621	Global Health Policies and Systems	3	6							
14	MPA 622	Public Policy and Economics of Health Systems	4	8				1 year GSPP Public Administration	GSPP		
15	MPA 699	Master's Project with Overseas Component	0	0							
16	MPE 610	National Identity and Public Policy	4	8				1 year GSPP Public Administration	GSPP		
17	MPE 611	Benefit Cost Analysis	4	8							
18	MPE 617	Institutions and development policies	4	8				1 year GSPP Public Administration	GSPP		
19	MPE 639	International Financial Policy	4	8				1 year GSPP Public Administration	GSPP		

20	MPE 640	International Political Economy	4	8				Public Policy	GSPP		
Master in Public Policy											
21	MPP 602	Macroeconomics and Public Policy	4	8							
22	MPP 613	Policy Research Design and Methods	4	8							
23	MPP 622	Economics, Philosophy and Public Policy	4	8				Public Policy	GSPP		
24	MPP 626	International Political Economy of Energy and Climate Change	4	8				Public Policy	GSPP		
25	MPP 632	Public International Law	4	8				Public Policy	GSPP		
26	MPP 641	Public Management and Leadership	4	8							
27	MPP 662	Public Project Evaluation and Analysis	4	8	MPP 601 Microeconomics and Public Policy (1449) (D and above)			Public Policy	GSPP		
28	MPP 699	Policy Analysis Exercise with Overseas Component	8	16	MPP 601 Microeconomics and Public Policy (1449) (C- and above) AND MPP 611 Statistics for Public Policy (1450) (C- and above) AND MPP 613 Policy Research Design and Methods (1301) (C- and above) AND MPP 621 Public Policy and Analysis (1451) (C- and above)						
GSE											
MA in Multilingual Education											
29	EDML 611	Plurilingual Individual	3	6							
30	EDML 612	Multilingual Society	3	6							
31	EDML 614	Multilingual curriculum development and assessment	3	6							
32	EDML 629	Multiliteracies: Teaching Language and Literacy for a Multilingual Context	3	6							
33	EDML 691	Thesis Research II	6	12							
MSc Educational Leadership HE											
34	EDHE 642	Globalisation and higher education	3	6							
35	EDHE 649	Fundamentals of Higher Education	3	6							

36	EDUC 506	Academic English II	1.5	3							
37	EDUC 511	Advanced English for Education Professionals II	3	6							
38	EDUC 512	English for Thesis Writing I	3	6							
39	EDUC 513	English for Thesis Writing II	3	6							
40	EDUC 571	Basic Kazakh	3	6							
41	EDUC 572	Kazakh for Professional Purposes	3	6							
42	EDUC 573	Academic Writing in Kazakh	3	6							
43	EDUC 600	Research Methods II	3	6							
44	EDUC 640	Thesis Seminar (Part III)	1.5	3							
45	EDUC 670	Internship Project	6	12							
46	EDUC 671	Work-based project	6	12							
MSc Educational Leadership IE											
47	EDIE 651	Inclusive Education: Policy Perspectives	3	6							
MSc Educational Leadership SE											
48	EDSE 623	Foundations of Early Childhood Education	3	6							
49	EDSE 630	Professional Identity	3	6							
SoM											
Public Health											
50	PUBH 512	Biostatistical Modeling and Sampling	3	6							
51	PUBH 522	Advanced Analytical Epidemiology	3	6							
52	PUBH 561	Graduate Research Seminar I	3	6							
53	PUBH 631	Social and Behavioral Sciences in Public Health	3	6							
SSH											
Area Studies											
54	EAS 502	Disciplinary Methodology	4	8							

55	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)						
Biological Science											
56	BIOL 530	Bioethics Principles and Practices	3	6							
57	BIOL 550	Structural and Molecular Biology in Health and Disease	3	6							
58	BIOL 560	Molecular Biology of Prokaryotic Cells	3	6							
59	BIOL 600	Graduate Seminar Series	3	6							
60	BIOL 699	Research Thesis II	6	12							
Economics											
61	ECON 521	Microeconomic Theory II	4	8	ECON 501 Microeconomics I (2187) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)						
62	ECON 522	Macroeconomics II	4	8	ECON 502 Macroeconomics I (2186) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)						
63	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)					
64	ECON 531	Econometrics	4	8	ECON 511 Statistics (2188) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)						
65	ECON 590	Thesis II	8	16	ECON 589 Thesis I (3714) (P)						
History, Philosophy and Religious Studies, History, Philosophy and Religious Studies											

66	REL 572/HST 572	History of Sufism in the Middle East and Central Asia	4	8							
Languages, Literature and Linguistics											
67	LING 570	Multilingualism and Language Contact	4	8							
68	WLL 542	Contemporary Russian and Russophone Literature	4	8							
Physics											
69	PHYS 510	Quantum Mechanics	3	6							
70	PHYS 520	Statistical Physics	3	6							
Political Science and International Relations											
71	PLS 510	Advanced Research I	4	8							
72	PLS 516	Experimental Political Science	4	8	PLS 511 Advanced Research I (1631) (C- and above)						
73	PLS 522	Just War Theory	4	8							
74	PLS 541	Advanced Topics in Comparative Politics	4	8							
75	PLS 547	Comparative Political Parties	4	8							
76	PLS 557	International Security and Conflict	4	8							
77	PLS 598	MA Thesis I	6	12							
Sociology and Anthropology, Sociology and Anthropology											
78	SOC 518/ANT 580	Gender, Power and Social Change in South Asia	4	8							
SEDS											
Chemical Engineering											
79	MCHE 601	Pipeline Engineering & Flow Assurance	3	6							
80	MCHE 602	Process Engineering and Simulation	3	6	MCHE 615 Advanced Unit Operations (3145) (D and above)						
81	MCHE 603	Crude Oil Processing	3	6							
82	MCHE 604	Natural Gas Processing	3	6							
83	MCHE 605	Petroleum Refining Water/Wastewater Use and Management	3	6							
Civil Engineering											
84	MCE 610	Sustainable Transportation Systems	3	6							

85	MCE 611	Sustainable Infrastructure Systems	3	6							
86	MCE 612	Resilient Structural and Geotechnical Systems	3	6							
87	MCE 613	Numerical Method in Geotechnical Engineering	3	6							
88	MCE 615	Applications of Geomatics in Civil Engineering	3	6							
Civil and Environmental Engineering											
89	E MEM 510	Managerial Accounting	2	4							
90	E MEM 511	Business Strategy	2	4							
91	E MEM 512	Leading Change	2	4							
92	E MEM 513	Entrepreneurship	2	4							
93	E MEM 514	Finance	2	4							
94	E MEM 516	Management of Organizations	2	4							
95	E MEM 517	Marketing	2	4							
96	E MEM 527	Globalization and Engineering	3	6							
97	E MEM 529	Capstone Project	8	16							
98	E MEM 544	Lean Production	1.5	3							
99	E MEM 545	Business Communication	2	4							
Computer Science											
100	CSCI 502	Hardware Software Co-Design	3	6	CSCI 501 Software Principles and Practice (2408) (C- and above)						
101	CSCI 591	Advanced Artificial Intelligence	3	6	CSCI 501 Software Principles and Practice (2408) (C- and above) OR DS 501 Fundamentals of Data Science (5218) (C- and above)						
102	CSCI 694	Thesis	15	30							
103	SEDS 502	Teaching Practicum	3	6							
104	SEDS 504	Innovation and Entrepreneurship	3	6							

105	SEDS 592	Research Seminar	3	6							
Electrical and Electronic Engineering											
106	MEE 601	Industrial and Commercial Power System	3	6							
107	MEE 602	Advanced Power Electronics	3	6							
108	MEE 603	Special Topics in Power Engineering	3	6							
109	MEE 609	Internet of Things	3	6							
110	MEE 615	Wireless Communications	3	6							
111	MEE 618	Optical Communication	3	6							
112	MEE 619	Photonics Technology	3	6							
113	MEE 620	RF and Microwave Communications Systems	3	6							
Mechanical Engineering											
114	MME 622	Advanced Design and Manufacturing	3	6							
115	MME 623	Design and Manufacturing with Environmental Concern	3	6							
116	MME 624	Design Optimization	3	6							
117	MME 625	Advanced Computer Aided Engineering	3	6							
118	MME 626	Advanced Manufacturing Processes and Strategies	3	6							
Robotics and Mechatronics											
119	ROBT 502	Robot Perception & Vision	3	6	ROBT 501 Robot Manipulation and Mobility (2263) (C- and above)						