

**Course Requirements and Registration Priorities  
(Graduate: Master), Spring 2017**

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
<b>GSB</b>											
<b>GSB</b>											
1	MBA 06	Global Financial management	2	4							
2	MBA 10	Foundations of Strategy	2	4							
3	MBA 12	Operations Management	2	4							
4	MBA 13	Macroeconomics	2	4							
5	MBA 14	Decision Models	2	4							
6	MBA 15	Corporate Finance	2	4							
7	MBA 16	Entrepreneurship	2	4							
8	MBA 18	Financial Statement Analysis	2	4							
<b>GSPP</b>											
<b>GSPP</b>											
9	MPA 608	Strategic Management and Leadership	4	8							
10	MPA 610	National Identity and Public Policy	4	8				1 year GSPP Public Administration	GSPP		
11	MPA 611	Benefit Cost Analysis	4	8							
12	MPA 615	Law, institutions and development	3	6							
13	MPA 616	Development, Industrial and Finance Policies	3	6							
14	MPA 621	Global Health Policies and Systems	3	6							
15	MPA 622	Public Policy and Economics of Health Systems	4	8				1 year GSPP Public Administration	GSPP		
16	MPA 699	Master's Project with Overseas Component	0	0							
17	MPE 617	Institutions and development policies	4	8				1 year GSPP Public Administration	GSPP		
18	MPE 639	International Financial Policy	4	8				1 year GSPP Public Administration	GSPP		
19	MPP 602	Macroeconomics and Public Policy	4	8							

20	MPP 613	Public Policy Research Design and Analysis	4	8							
21	MPP 622	Economics, Philosophy and Public Policy	4	8				Public Policy	GSPP		
22	MPP 623	International Political Economy	4	8				Public Policy	GSPP		
23	MPP 626	International Political Economy of Energy and Climate Change	4	8				Public Policy	GSPP		
24	MPP 632	Public International Law	4	8				Public Policy	GSPP		
25	MPP 641	Public Management and Leadership	4	8							
26	MPP 662	Public Project Evaluation and Analysis	4	8	MPP 601 Microeconomics and Public Policy (1449) (D and above)			Public Policy	GSPP		
27	MPP 699	Policy Analysis Exercise with Singapore Component	8	16	MPP 601 Microeconomics and Public Policy (1449) (D and above) AND MPP 602 Macroeconomics and Public Policy (1023) (D and above) AND MPP 611 Statistical Techniques for Public Policy (1450) (D and above) AND MPP 612 Public Policy Research and Evaluation (1025) (D and above) AND MPP 613 Public Policy Research Design and Analysis (1301) (D and above) AND MPP 621 Introduction to Public Policy and Analysis (1451) (D and above) AND MPP 631 Politics and Public Policy (1303) (D and above)						
<b>GSE</b>											
<b>GSE</b>											
28	EDHE 642	Globalisation and higher education	3	6							
29	EDHE 649	Fundamentals of Higher Education	3	6							
30	EDIE 651	Inclusive Education: Policy Perspectives	3	6							
31	EDML 611	Plurilingual Individual	3	6							
32	EDML 612	Multilingual Society	3	6							
33	EDML 614	Multilingual curriculum development and assessment	3	6							

34	EDML 629	Multiliteracies: Teaching Language and Literacy for a Multilingual Context	3	6							
35	EDML 691	Thesis Research II	6	12							
36	EDSE 623	Foundations of Early Childhood Education	3	6							
37	EDSE 630	Professional Identity	3	6							
38	EDUC 506	Academic English II	1.5	3							
39	EDUC 511	Advanced English for Education Professionals II	3	6							
40	EDUC 512	English for Thesis Writing I	3	6							
41	EDUC 513	English for Thesis Writing II	3	6							
42	EDUC 571	Basic Kazakh	3	6							
43	EDUC 572	Kazakh for Professional Purposes	3	6							
44	EDUC 573	Academic Writing in Kazakh	3	6							
45	EDUC 600	Research Methods II	3	6							
46	EDUC 640	Thesis Seminar (Part III)	1.5	3							
47	EDUC 670	Internship Project	6	12							
48	EDUC 671	Work-based project	6	12							
<b>SoM</b>											
<b>Public Health</b>											
49	PUBH 512	Biostatistical Modeling and Sampling	3	6							
50	PUBH 522	Advanced Analytical Epidemiology	3	6							
51	PUBH 561	Graduate Research Seminar I	3	6							
52	PUBH 631	Social and Behavioral Sciences in Public Health	3	6							
<b>SSH</b>											
<b>Area Studies</b>											
53	EAS 502	Disciplinary Methodology	4	8							

54	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)						
<b>Biological Science</b>											
55	BIOL 530	Bioethics Principles and Practices	3	6							
56	BIOL 550	Structural and Molecular Biology in Health and Disease	3	6							
57	BIOL 560	Molecular Biology of Prokaryotic Cells	3	6							
58	BIOL 600	Graduate Seminar Series	3	6							
59	BIOL 699	Research Thesis II	6	12							
<b>Economics</b>											
60	ECON 521	Microeconomic Theory II	4	8	ECON 501 Microeconomics I (2187) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)						
61	ECON 522	Macroeconomics II	4	8	ECON 502 Macroeconomics I (2186) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)						
62	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)					
63	ECON 531	Econometrics	4	8	ECON 511 Statistics (2188) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)						
64	ECON 590	Thesis II	8	16	ECON 589 Thesis I (3714) (P)						
<b>History, Philosophy and Religious Studies, History, Philosophy and Religious Studies</b>											

65	REL 572/HST 572	History of Sufism in the Middle East and Central Asia	4	8							
<b>Languages, Literature and Linguistics</b>											
66	LING 570	Multilingualism and Language Contact	4	8							
67	WLL 542	Contemporary Russian and Russophone Literature	4	8							
<b>Physics</b>											
68	PHYS 510	Quantum Mechanics	3	6							
69	PHYS 520	Statistical Physics	3	6							
70	SST 502	Teaching Practicum	3	6	SST 501 Teaching and Learning (2260) (C- and above)						
71	SST 504	Innovation & Entrepreneurship	3	6							
72	SST 592	Research Seminar	3	6							
73	SST 692	Thesis	15	30							
<b>Political Science and International Relations</b>											
74	PLS 510	Advanced Research II	4	8	PLS 511 Advanced Research I (1631) (D and above)						
75	PLS 516	Experimental Political Science	4	8	PLS 511 Advanced Research I (1631) (C- and above)						
76	PLS 521	Theories of Political Obligations	4	8							
77	PLS 522	Just War Theory	4	8							
78	PLS 541	Advanced Topics in Comparative Politics	4	8							
79	PLS 547	Comparative Political Parties	4	8							
80	PLS 557	International Security and Conflict	4	8							
81	PLS 598	MA Thesis I	6	12							
<b>Sociology and Anthropology, Sociology and Anthropology</b>											
82	SOC 518/ANT 580	Gender, Power and Social Change in South Asia	4	8							
<b>SEDS</b>											
<b>Chemical Engineering</b>											
83	MCHE 601	Pipeline Engineering & Flow Assurance	3	6							
84	MCHE 602	Process Engineering and Simulation	3	6	MCHE 615 Advanced Unit Operations (3145) (D and above)						

85	MCHE 603	Crude Oil Processing	3	6							
86	MCHE 604	Natural Gas Processing	3	6							
87	MCHE 605	Petroleum Refining Water/Wastewater Use and Management	3	6							
<b>Civil Engineering</b>											
88	EMEM 510	Managerial Accounting	2	4							
89	EMEM 511	Business Strategy	2	4							
90	EMEM 512	Leading Change	2	4							
91	EMEM 513	Entrepreneurship	2	4							
92	EMEM 514	Finance	2	4							
93	EMEM 516	Management of Organizations	2	4							
94	EMEM 517	Marketing	2	4							
95	EMEM 527	Globalization and Engineering	3	6							
96	EMEM 529	Capstone Project	8	16							
97	EMEM 544	Lean Production	1.5	3							
98	EMEM 545	Business Communication	2	4							
99	MCE 610	Sustainable Transportation Systems	3	6							
100	MCE 611	Sustainable Infrastructure Systems	3	6							
101	MCE 612	Resilient Structural and Geotechnical Systems	3	6							
102	MCE 613	Numerical Method in Geotechnical Engineering	3	6							
103	MCE 615	Applications of Geomatics in Civil Engineering	3	6							
<b>Computer Science</b>											
104	CSCI 502	Hardware Software Co-Design	3	6	CSCI 501 Software Principles and Practice (2408) (C- and above)						
105	CSCI 591	Advanced Artificial Intelligence	3	6	CSCI 501 Software Principles and Practice (2408) (C- and above)						

**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)						
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