

## Course Requirements and Registration Priorities Summer 2022

#	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	BUS 101	Core Course in Business	3	6				2 year UG SOM, 3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH	4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	
2	MBA 20A	Internship	6	12				For GSB programs only! Registration by School admin.			
3	MBAE 22	Business Law	2	4				For GSB programs only! Registration by School admin.			
4	MBAE 6	International Finance	2	4				For GSB programs only! Registration by School admin.			
5	MHRM 09	Talent Management	2	4							
6	MSF 05	Internship	6	12				For GSB programs only! Registration by School admin.			
7	MSF 06	Credit Modeling	2.5	5				For GSB programs only! Registration by School admin.			
<b>GSPP</b>											
<b>Master in Public Administration</b>											
8	MPA 607	Fiscal Management and Budgeting	4	8				1 year GSPP Public Administration			
9	MPA 699	Master's Project with Overseas Component	0	0				1 year GSPP Public Administration			

10	MPE 600	Internship in Public Policy	4	8	(MPP 601 Microeconomics and Public Policy (1449) (C- and above) AND MPP 602 Macroeconomics and Public Policy (1023) (C- and above) AND MPP 611 Statistics for Public Policy (1450) (C- and above) AND MPP 621 Public Policy and Analysis (1451) (C- and above) AND MPP 641 Public Management and Leadership (1907) (C- and above) AND MPP 603 Data Analytics in Public Policy (6618) (C- and above)) OR (MPA 602 Public Administration in Theory and Practice (2077) (C- and above) AND MPA 603 Economic Applications for Public Managers (2074) (C- and above) AND MPA 605 Research Methods for Public Managers (2108) (C- and above) AND MPA 608 Strategic Management and Leadership (2491) (C- and above) AND MPA 610 Program Evaluation (6617) (C- and above))			1 year GSPP Public Policy			
<b>Master in Public Policy</b>											
11	MPP 699-0	Policy Analysis Exercise with Overseas Component	0	0	MPP 613 Policy Research Design and Methods (1301) (C- and above)			1 year GSPP Public Policy			
<b>PhD in Public Policy</b>											
12	DPP 600	Developing Dissertation Research	0	0				Public Policy			
<b>GSE</b>											
<b>MA in Multilingual Education</b>											
13	EDML 680	Developing the Thesis Research Topic	0	0				1 year GSE MA in Multil.Education			
14	EDML 692	Thesis Research III	3	6				2 year GSE MA in Multil.Education			
<b>MSc Educational Leadership HE</b>											
15	EDHE 601	Thesis Seminar 1	0	0				1 year GSE Educ.Leadership			
16	EDHE 602	Thesis Seminar 2	0	0				1 year GSE Educ.Leadership			

17	EDHE 628	Higher Education Policy Analysis and Development	3	6				1 year GSE Educ.Leadership			
18	EDHE 629	Globalization and International Higher Education	3	6				1 year GSE Educ.Leadership			
19	EDUC 507	Academic English III	1.5	3				2 year GSE (pending graduation)			
20	EDUC 610	Management in Education	3	6				1 year GSE Educ.Leadership			
21	EDUC 627	Psychology of Learning	3	6				1 year GSE Educ.Leadership			
22	EDUC 630	Economics and Finance in Education	3	6				1 year GSE Educ.Leadership			
23	EDUC 729	Developing the Research Topic	0	0				1 year GSE PhD Education			
24	EDUC 730	Preparation for Proposal Defence	0	0				2 year GSE PhD Education			
25	EDUC 740	Doctoral Seminar	3	6							
<b>MSc Educational Leadership IE</b>											
26	EDIE 601	Thesis Seminar 1	0	0				1 year GSE Educ.Leadership			
27	EDIE 602	Thesis Seminar 2	0	0				1 year GSE Educ.Leadership			
28	EDIE 628	Inclusive Curriculum and Assessment	3	6				1 year GSE Educ.Leadership			
<b>MSc Educational Leadership SE</b>											
29	EDSE 601	Thesis Seminar 1	0	0				1 year GSE Educ.Leadership			
30	EDSE 602	Thesis Seminar 2	0	0				1 year GSE Educ.Leadership			
31	EDSE 629	Teacher Development and Identity	3	6				1 year GSE Educ.Leadership			
<b>SoM</b>											
<b>MSMR</b>											
32	MSMR 513	Internship in Sports Medicine and Rehabilitation	1.5	3							
<b>PHD</b>											
33	PHDBS 701-0	Thesis Research	0	0							
<b>SMG</b>											
<b>Mining Engineering</b>											
34	MINE 890-0	Thesis Research	0	0				Mining Engineering			

**Petroleum Engineering**

35	PETE 890	Thesis Research	0	0				Petroleum Engineering			
----	----------	-----------------	---	---	--	--	--	-----------------------	--	--	--

**SSH**

**Area Studies**

36	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)			Eurasian Studies			
37	EAS 505	Research and Fieldwork Practicum	4	8				Instructor's Permission Required. Registration through Add Course form only!			
38	EAS 511	Independent Study in Eurasian Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!			
39	EAS 800-0	Dissertation Research in Eurasian Studies	0	0				Instructor's Permission Required. Registration through Add Course form only!			

**Biological Science**

40	BIOL 301L	Molecular Cell Biology Laboratory	1	2	BIOL 120 Modern Biology II (1195) (C and above) OR BIOL 120L Modern Biology II Laboratory (5443) (C and above)	BIOL 301 Molecular Cell Biology (5809) (C and above)		3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	Biological Sciences, Medical Sciences	SEDS, SMG, SSH, SoM	
41	BIOL 392	Directed Study in Biology	3	6				Instructor's Permission Required. Registration through Add Course form only!			
42	BIOL 399	Biology Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
43	BIOL 599	Master's Thesis Research	0	0				Biological Sciences			
44	BIOL 800-0	Thesis Research	0	0							

**Chemistry**

45	CHEM 101L	General Chemistry I lab	1	2		CHEM 101 General Chemistry I (113) (C and above)		5 year UG SEDS, 5 year UG SSH, Biological Sciences, Chemistry, Medical Sciences	SEDS, SMG, SSH, SoM		
46	CHEM 102	General Chemistry II	3	6	CHEM 101 General Chemistry I (113) (C and above)			5 year UG SEDS, 5 year UG SSH, Biological Sciences, Chemistry	SEDS, SMG, SSH, SoM		

47	CHEM 189c	Independent Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
48	CHEM 211L	Organic Chemistry I Lab	1	2	CHEM 101L General Chemistry I lab (179) (C and above)	CHEM 211 Organic Chemistry I (154) (C and above)		5 year UG SEDS, 5 year UG SSH, Chemistry	Biological Sciences	SEDS, SMG, SSH, SoM	
49	CHEM 212	Organic Chemistry II	3	6	CHEM 211 Organic Chemistry I (154) (C and above) OR CHEM 191 Chemistry I for Engineers (1908) (C and above)			5 year UG SEDS, 5 year UG SSH, Chemistry	Biological Sciences	SEDS, SMG, SSH, SoM	
50	CHEM 560	Directed research in chemistry	0	0				Instructor's Permission Required. Registration through Add Course form only!			
51	CHEM 692	MSc Thesis in Chemistry	18	36	CHEM 691 Thesis Proposal (5858) (C- and above)			Chemistry			
<b>Communication and Composition</b>											
52	WCS 150	Rhetoric and Composition	3	6				SoM	SEDS, SMG, SSH		
<b>Economics</b>											
53	ECON 300	Research Assistance in Economics	1	2	ECON 101 Introduction to Microeconomics (379) (C- and above) AND ECON 102 Introduction to Macroeconomics (503) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
54	ECON 399	Independent Study in Economics	3	6				Instructor's Permission Required. Registration through Add Course form only!			
55	ECON 580	Research and Thesis	0	0				Economics			
<b>History, Philosophy and Religious Studies</b>											
56	HST 100	History of Kazakhstan	3	6				4 year UG SEDS, 4 year UG SMG, 4 year UG SSH, 5 year UG SEDS, 5 year UG SSH	1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH	SEDS, SMG, SSH, SoM	
57	PHIL 210	Ethics	3	6				SEDS, SMG, SSH, SoM			
58	PHIL 398	Independent Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
<b>Kazakh Language and Turkic Studies</b>											
59	KAZ 001	Kazakh Language Placement Test	0	0				Registration by Instructor Only!			

60	KAZ 150	Basic Kazakh	3	6	KLL "[A2] Basic"			5 year UG SEDS, 5 year UG SSH	SEDS, SMG, SSH, SoM		
61	KAZ 201	Academic Kazakh I	3	6	KAZ 150 Basic Kazakh (1215) (C- and above) OR KLL "[B1.2] Intermediate"			5 year UG SEDS, 5 year UG SSH	SEDS, SMG, SSH, SoM		
62	KAZ 202	Academic Kazakh II	3	6	KAZ 201 Academic Kazakh I (4561) (C- and above) OR KLL "[B2.2] Upper-Interm."			5 year UG SEDS, 5 year UG SSH	SEDS, SMG, SSH, SoM		
63	KAZ 371	Contemporary Kazakh Literature	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			5 year UG SEDS, 5 year UG SSH	SEDS, SMG, SSH, SoM		
64	KFL 101	Elementary Kazakh as a Foreign Language I	4	8				Instructor's Permission Required. Registration through Add Course form only!			
65	KFL 102	Elementary Kazakh as a Foreign Language II	4	8	KFL 101 Elementary Kazakh as a Foreign Language I (4889) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
66	KFL 301	Advanced Kazakh as a Foreign Language I	4	8				Instructor's Permission Required. Registration through Add Course form only!			
67	KFL 302	Advanced Kazakh as a Foreign Language II	4	8	KFL 301 Advanced Kazakh as a Foreign Language I (4886) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
<b>Languages, Literature and Linguistics</b>											
68	WLL 400	Research Assistance in Linguistics and Literature	1	2	LING 273 Survey of Research Methods in Linguistics (2158) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
<b>Mathematics</b>											
69	MATH 161	Calculus I	4	8				5 year UG SSH, Biological Sciences, Chemistry, Mathematics, Physics, SEDS, SMG, Undeclared SSH	SSH, SoM		
70	MATH 162	Calculus II	4	8	MATH 161 Calculus I (118) (C and above)			1 year UG SSH Biological Sciences, 2 year UG SSH Biological Sciences, 5 year UG SSH, Chemistry, Mathematics, Physics, SEDS, SMG	SSH, SoM		
71	MATH 497	Directed Study in Mathematics I	3	6				Instructor's Permission Required. Registration through Add Course form only!			
72	MATH 499	Capstone Project	3	6				Instructor's Permission Required. Registration through Add Course form only!			
73	MATH 599	Thesis Research Preparation	0	0				Applied Mathematics			

74	MATH 700-0	Thesis Research	0	0				Mathematics		
<b>Physics</b>										
75	PHYS 161	Physics I for Scientists and Engineers with Laboratory	4	8		MATH 161 Calculus I (118) (C and above)	PHYS 171 Physics I for Physics Majors with Laboratory (1401) (C- and above)	SEDS, SMG, SSH, SoM		
76	PHYS 162	Physics II for Scientists and Engineers with Laboratory	4	8	PHYS 161 Physics I for Scientists and Engineers with Laboratory (116) (C- and above) OR PHYS 151 Introductory Physics I with Lab (649) (C- and above)		PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above)	SEDS, SMG, SSH, SoM		
77	PHYS 299	Research project and internship	3	6				Instructor's Permission Required. Registration through Add Course form only!		
78	PHYS 399	Physics Research Project	3	6				Instructor's Permission Required. Registration through Add Course form only!		
79	PHYS 600	Thesis Research	0	0				Physics		
80	PHYS 700-0	Thesis Research	0	0				Physics		
<b>Political Science and International Relations</b>										
81	PLS 395	Independent Study	3	6	PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!		
82	PLS 441	Advanced Topics in Comparative Politics	3	6	PLS 140 Introduction to Comparative Politics (223) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!		
83	PLS 495	Research Practicum in PSIR	1	2	PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!		
84	PLS 597	Research for Thesis	6	12				Political Science and International Relations		
<b>SSH</b>										
85	SSH 300	School of Sciences and Humanities Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!		

86	SSH 301	School of Sciences and Humanities Internship: Second Experience	3	6				Instructor's Permission Required. Registration through Add Course form only!			
87	SSH 398	Independent Study	1	2				Instructor's Permission Required. Registration through Add Course form only!			
<b>Sociology and Anthropology</b>											
88	ANT 399	Special Topics in Anthropology	3	6				Instructor's Permission Required. Registration through Add Course form only!			
<b>SEDS</b>											
<b>Chemical and Materials Engineering</b>											
89	CHME 466	Directed Research Study	3	6				Only 4th Year ChME students by instructor's approval			
90	DCHME 700-0	Thesis Research	0	0				Chemical Engineering, Civil Engineering, Computer Science , Electrical Engineering, Mechanical Engineering, Robotics Engineering, Science, Engineering and Technology			
<b>Civil and Environmental Engineering</b>											
91	DCEE 700-0	Thesis Research	0	0				Chemical Engineering, Civil Engineering, Computer Science , Electrical Engineering, Mechanical Engineering, Robotics Engineering, Science, Engineering and Technology			
<b>Computer Science</b>											
92	CSCI 152	Performance and Data Structures	4	8	CSCI 151 Programming for Scientists and Engineers (192) (C- and above) OR ENG 101 Programming for Engineers (4517) (B- and above)			Computer Science, Robotics Engineering, Robotics and Mechatronics			
93	CSCI 299	Internship I	3	6				Instructor's Permission Required. Registration through Add Course form only!			
94	CSCI 398	Directed Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
95	CSCI 399	Internship II	3	6				Instructor's Permission Required. Registration through Add Course form only!			
96	CSCI 700-0	Thesis Research	0	0				Computer Science			
<b>Electrical and Computer Engineering</b>											
97	DELCE 700-0	Thesis Research	0	0				Electrical Engineering			



98	ELCE 399	Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
<b>Mechanical and Aerospace Engineering</b>											
99	DMAE 700-0	Thesis Research	0	0				Chemical Engineering, Civil Engineering, Computer Science , Electrical Engineering, Mechanical Engineering, Robotics Engineering, Science, Engineering and Technology			
100	ENG 400	Capstone Project	3	6				Instructor's Permission Required. Registration through Add Course form only!			
<b>Robotics and Mechatronics</b>											
101	ROBT 399	Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
102	ROBT 700-0	Thesis Research	0	0				Robotics Engineering			
<b>School of Engineering</b>											
103	DENG 700-0	Thesis Research	0	0				Science, Engineering and Technology			
104	DENG 794	Dissertation Research	12	24	DENG 785 PhD Proposal Oral Defence (2604) (P)			Science, Engineering and Technology			
105	DENG 796	Thesis Completion	0	0				Science, Engineering and Technology			
106	DENG 797	Oral Defence of PhD Dissertation	0	0	DENG 785 PhD Proposal Oral Defence (2604) (P) AND DENG 789 Doctoral Seminar I (4598) (P) AND DENG 790 Doctoral Seminar II (4599) (P)			Science, Engineering and Technology			