

**Course Requirements and Registration Priorities
School of Sciences and Humanities (PhD), Spring 2023**

#	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 702	Elective in Eurasian Humanities	4	8				Instructor's Permission Required. Registration through Add Course form only!			
2	EAS 703	Elective in Eurasian Social Sciences	4	8				Instructor's Permission Required. Registration through Add Course form only!			
3	EAS 704	Elective 2 in Eurasian Humanities	4	8				Instructor's Permission Required. Registration through Add Course form only!			
4	EAS 705	Elective 2 in Social Sciences	4	8				Instructor's Permission Required. Registration through Add Course form only!			
5	EAS 708	Proseminar in Eurasian Humanities	4	8				Instructor's Permission Required. Registration through Add Course form only!			
6	EAS 709	Proseminar in Eurasian Social Sciences	4	8				Instructor's Permission Required. Registration through Add Course form only!			
7	EAS 710	Independent Study in Eurasian Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!			
8	EAS 712	Doctoral Seminar in Eurasian Studies II	4	8				Eurasian Studies			
9	EAS 713	Qualifying Examination	0	0				Eurasian Studies			
10	EAS 800-0	Dissertation Research in Eurasian Studies	0	0				Eurasian Studies			
Biological Science											
11	BIOL 800-0	Thesis Research	0	0				Life Sciences			
12	BIOL 830	Advanced Neuroscience	4	8				Biomedical Sciences, Life Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
13	BIOL 870	Advanced Biotechnology	4	8				Biomedical Sciences, Life Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
14	BIOL 880	Applied Bioinformatics	4	8				Biomedical Sciences, Life Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
15	BIOL 891	Cellular Biophysics	4	8				Biomedical Sciences, Life Sciences	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
Chemistry											

16	CHEM 710	Mechanistic Principles of Organic Reactions	4	8				Chemistry	SSH	SEDS, SMG, SoM	
17	CHEM 731	Design of Functional Materials	4	8				Chemistry	SSH	SEDS, SMG, SoM	
18	CHEM 733	Colloid and Surfactant Science	4	8				Chemistry	SSH	SEDS, SMG, SoM	
19	CHEM 752	Materials Chemistry	4	8				Chemistry	SSH	SEDS, SMG, SoM	
20	CHEM 753	Organometallic Catalysis	4	8	CHEM 750 Modern Inorganic Chemistry (6499) (C and above)			Chemistry	SSH	SEDS, SMG, SoM	
21	CHEM 798-0	Thesis Research	0	0				Chemistry			
Kazakh Language and Turkic Studies											
22	TUR 775	Doctoral Topic in Turkic Studies	4	8							
Languages, Literature and Linguistics											
23	LING 772	Language Ideologies	4	8				Biomedical Sciences, Chemical Engineering, Chemistry, Civil Engineering, Computer Science , Education, Electrical Engineering, Eurasian Studies, Global Health, Life Sciences, Mathematics, Mechanical Engineering, Mining Engineering, Petroleum Engineering, Physics, Public Policy, Robotics Engineering, Science, Engineering and Technology			
Mathematics											
24	MATH 700-0	Thesis Research	0	0				Mathematics			
25	MATH 702	Functional Analysis with Applications	4	8				Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
26	MATH 761	Mathematical Finance	4	8				Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
27	MATH 771	Operations Research	4	8				Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
28	MATH 791	Topics in Mathematics	4	8				Mathematics	SEDS, SSH	GSB, GSE, GSPP, SMG, SoM	
Physics											
29	PHYS 700-0	Thesis Research	0	0				Physics			
30	PHYS 701	Current Research Literature	3	6				Physics			

31	PHYS 710	Quantum Mechanics	4	8				Physics			
32	PHYS 720	Statistical Physics	4	8				Physics			
33	PHYS 770	Introduction to Optoelectronics	4	8				Physics			