

**Course Requirements and Registration Priorities**  
**School of Sciences and Humanities (Graduate: PhD), Spring 2020**

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
<b>SSH</b>											
<b>Area Studies</b>											
1	EAS 702	Elective in Eurasian Humanities	4	8				Instructor's Permission Required			
2	EAS 703	Elective in Eurasian Social Sciences	4	8				Instructor's Permission Required			
3	EAS 708	Proseminar in Eurasian Humanities	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
4	EAS 709	Proseminar in Eurasian Social Sciences	4	8				Instructor's Permission Required			
5	EAS 710	Independent Study in Eurasian Studies	4	8				Instructor's Permission Required			
<b>Biological Science</b>											
6	BIOL 737	Advanced Optical and Electron Microscopy	4	8				1 year PhD SEDS Science, Engineering and Technology	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
7	BIOL 770	Advanced Biotechnology	4	8				1 year PhD SEDS Science, Engineering and Technology	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
8	BIOL 780	Applied Bioinformatics	4	8				1 year PhD SEDS Science, Engineering and Technology	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
9	BIOL 791	Cellular Biophysics	4	8				1 year PhD SEDS Science, Engineering and Technology	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
10	BIOL 799	Thesis Research	0	0				1 year PhD SEDS Science, Engineering and Technology	SSH	GSB, GSE, GSPP, SEDS, SMG, SoM	
<b>Kazakh Language and Turkic Studies</b>											
11	TUR 775	Doctoral Topic in Turkic Studies	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
<b>Mathematics</b>											
12	MATH 700	Thesis Research	0	0				Science, Engineering and Technology			
13	MATH 701	Real Analysis	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
14	MATH 702	Functional Analysis with Applications	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
15	MATH 711	Abstract Algebra	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
16	MATH 791	Topics in Mathematics	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			
<b>Physics</b>											
17	PHYS 700	Thesis Research	0	0				Science, Engineering and Technology			

18	PHYS 701	Current Research Literature	3	6				Science, Engineering and Technology	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
19	PHYS 710	Quantum Mechanics	4	8				Science, Engineering and Technology	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
20	PHYS 720	Statistical Physics	4	8				Science, Engineering and Technology	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
21	PHYS 774	Lasers and Photonics	4	8				Science, Engineering and Technology	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
<b>Sociology and Anthropology</b>											
22	ANT 710	Ethnography, Fiction, Memoir	4	8				GSB, GSE, GSPP, SEDS, SMG, SSH, SoM			