

**Course Requirements and Registration Priorities  
School of Sciences and Humanities (Graduate: PhD), Fall 2019**

#	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 700	Introduction to Eurasia	4	8				Eurasian Studies	GSE, GSP, SEDS, SMG, SSH, SoM		
2	EAS 701	Critical Issues in Eurasian Studies	2	4				Eurasian Studies	GSE, GSP, SEDS, SMG, SSH, SoM		
3	EAS 702	Elective in Eurasian Humanities	4	8							
4	EAS 703	Elective in Eurasian Social Sciences	4	8							
<b>Biological Science</b>											
5	BIOL 720	Statistical Methods in Life Sciences	3	6				1 year PhD SEDS Science, Engineering and Technology	SSH	GSE, GSP, SEDS, SMG	
6	BIOL 731	Synthetic Biology	4	8				1 year PhD SEDS Science, Engineering and Technology	SSH	GSE, GSP, SEDS, SMG	
7	BIOL 732	Drug Discovery and Design	4	8				1 year PhD SEDS Science, Engineering and Technology	SSH	GSE, GSP, SEDS, SMG	
8	BIOL 750	Structural and Molecular Biology in Health and Disease	4	8				1 year PhD SEDS Science, Engineering and Technology	SSH	GSE, GSP, SEDS, SMG	
9	BIOL 799	Thesis Research	0	0				1 year PhD SEDS Science, Engineering and Technology	SSH	GSE, GSP, SEDS, SMG	
<b>Communication and Composition</b>											
10	WCS 730	From Genre to Style and Back: Writing for PhD Students	4	8				Instructor's Permission Required			
<b>Kazakh Language and Turkic Studies</b>											
11	TUR 775	Doctoral Topic in Turkic Studies	4	8							
<b>Mathematics</b>											
12	MATH 700	Thesis Research	0	0							
13	MATH 714	Advanced Operations Research	4	8				1 year PhD SEDS Science, Engineering and Technology	SEDS, SSH	GSE, GSP, SMG, SoM	
14	MATH 740	Advanced Statistical Learning	4	8				1 year PhD SEDS Science, Engineering and Technology	SEDS, SSH	GSE, GSP, SMG, SoM	
15	MATH 776	Advanced numerical methods for partial differential equations	4	8				1 year PhD SEDS Science, Engineering and Technology	SEDS, SSH	GSE, GSP, SMG, SoM	
<b>Physics</b>											

16	PHYS 700	Thesis Research	0	0							
17	PHYS 711	Computational Modeling and Simulation	4	8				1 year PhD SEDS Science, Engineering and Technology	SEDS, SSH	GSE, GSPP, SMG, SoM	
18	PHYS 750	Advanced Mathematical Physics	4	8				1 year PhD SEDS Science, Engineering and Technology	SEDS, SSH	GSE, GSPP, SMG, SoM	