

## Course Requirements and Registration Priorities (Undergraduate), 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>											
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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	
<b>SSH</b>											
<b>Biological Science</b>											
2	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	
3	BIOL 392	Directed Study in Biology	3	6				Instructor's Permission Required. Registration through Add Course form only!			
4	BIOL 399	Biology Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
<b>Chemistry</b>											
5	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		
6	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		
7	CHEM 189c	Independent Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
8	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	
9	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	
<b>Communication and Composition</b>											

10	WCS 150	Rhetoric and Composition	3	6			SoM	SEDS, SMG, SSH		
<b>Economics</b>										
11	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!			
12	ECON 399	Independent Study in Economics	3	6			Instructor's Permission Required. Registration through Add Course form only!			
<b>History, Philosophy and Religious Studies</b>										
13	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	
14	PHIL 210	Ethics	3	6			SEDS, SMG, SSH, SoM			
15	PHIL 398	Independent Study	3	6			Instructor's Permission Required. Registration through Add Course form only!			
<b>Kazakh Language and Turkic Studies</b>										
16	KAZ 001	Kazakh Language Placement Test	0	0			Registration by Instructor Only!			
17	KAZ 150	Basic Kazakh	3	6	KLL "[A2] Basic"		5 year UG SEDS, 5 year UG SSH	SEDS, SMG, SSH, SoM		
18	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		
19	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		
20	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		
21	KFL 101	Elementary Kazakh as a Foreign Language I	4	8			Instructor's Permission Required. Registration through Add Course form only!			
22	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!			
23	KFL 301	Advanced Kazakh as a Foreign Language I	4	8			Instructor's Permission Required. Registration through Add Course form only!			

24	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>											
25	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>											
26	MATH 161	Calculus I	4	8				5 year UG SSH, Biological Sciences, Chemistry, Mathematics, Physics, SEDS, SMG, Undeclared SSH	SSH, SoM		
27	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		
28	MATH 497	Directed Study in Mathematics I	3	6				Instructor's Permission Required. Registration through Add Course form only!			
29	MATH 499	Capstone Project	3	6				Instructor's Permission Required. Registration through Add Course form only!			
<b>Physics</b>											
30	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			
31	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			
32	PHYS 299	Research project and internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
33	PHYS 399	Physics Research Project	3	6				Instructor's Permission Required. Registration through Add Course form only!			
<b>Political Science and International Relations</b>											
34	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!			

35	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!			
36	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!			
<b>SSH</b>											
37	SSH 300	School of Sciences and Humanities Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
38	SSH 301	School of Sciences and Humanities Internship: Second Experience	3	6				Instructor's Permission Required. Registration through Add Course form only!			
39	SSH 398	Independent Study	1	2				Instructor's Permission Required. Registration through Add Course form only!			
<b>Sociology and Anthropology</b>											
40	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>											
41	CHME 466	Directed Research Study	3	6				Only 4th Year ChME students by instructor's approval			
<b>Computer Science</b>											
42	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			
43	CSCI 299	Internship I	3	6				Instructor's Permission Required. Registration through Add Course form only!			
44	CSCI 398	Directed Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
45	CSCI 399	Internship II	3	6				Instructor's Permission Required. Registration through Add Course form only!			
<b>Electrical and Computer Engineering</b>											
46	ELCE 399	Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			

**Mechanical and Aerospace Engineering**

47	ENG 400	Capstone Project	3	6				Instructor's Permission Required. Registration through Add Course form only!			
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**Robotics and Mechatronics**

48	ROBT 399	Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
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