

**Course Requirements and Registration Priorities
(Undergraduate), Fall 2017**

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
SHSS											
Economics											
1	ECON 329	International Finance	3	6	ECON 202 Intermediate Macroeconomics (207) (C- and above)			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
Kazakh Language and Turkic Studies											
2	KAZ 314	Speech Culture in Business	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
3	KAZ 358	Technique of Translation	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
4	KAZ 370	Kazakh for Career Development	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
Sociology and Anthropology											
5	ANT 403	Research Assistance in Anthropology	2	4							
Other											
Other											
6	T-CMM 181	Introduction to Mass Communication	3	6							
7	T-ECN 332	Managerial Economics	3	6							
8	T-GOV 382	American Political Concepts	3	6							
9	T-PHI 104	Philosophy of Religion	3	6							
SoM											
Nursing											

10	NUR 301	Nutrition for Clinical Practice	3	6							
11	NUR 302	Physical Assessment Across the Lifespan	4	8							
12	NUR 303	Nursing Care of Older Adults	4	8							
13	NUR 304	Introduction to Basic Statistics for Evidence Based Practice	3	6							
SSH											
Biological Science											
14	BIOL 101	Biology for non-Science majors	3	6			BIOL 110 Modern Biology I (1070) (C- and above)	SHSS			
15	BIOL 110	Modern Biology I	3	6				Biological Sciences, Chemistry	SST	SHSS	
16	BIOL 230	Human Anatomy and Physiology I	4	8	BIOL 110 Modern Biology I (107) (C and above) OR BIOL 110 Modern Biology I (1070) (C and above)			Biological Sciences	SST	SHSS	
17	BIOL 305	Introduction to Microbiology with Lab	4	8	BIOL 110 Modern Biology I (1070) (C and above) AND BIOL 120 Modern Biology II (1195) (C and above)			Biological Sciences	SST	SHSS	
18	BIOL 310	Immunology	3	6	BIOL 301 Molecular Biology of Cell with Lab (1197) (C and above) OR BIOL 305 Introduction to Microbiology with Lab (1642) (C and above) OR BIOL 301 Molecular Cell Biology (5809) (C and above) OR BIOL 305 Introduction to Microbiology (5789) (C and above)			Biological Sciences	SST	SHSS	
19	BIOL 320	Developmental Biology	3	6	BIOL 230 Human Anatomy and Physiology I (72) (C and above) OR BIOL 230 Human Anatomy and Physiology I (6217) (C and above)			Biological Sciences	SST	SHSS	
20	BIOL 340	Introduction to Applied Bioinformatics	4	8	(BIOL 120 Modern Biology II (1195) (C and above) OR (BIOL 120 Modern Biology II (1195) (C and above) AND BIOL 120L Modern Biology II Laboratory (5443) (C and above))) AND MATH 310 Applied Statistical Methods (82) (C and above)			Biological Sciences	SST	SHSS	
21	BIOL 355	Critical Research Reasoning	3	6	BIOL 120 Modern Biology II (1195) (C and above)			Biological Sciences	SST	SHSS	

22	BIOL 399	Biology Internship	3	6				Biological Sciences	SST	SHSS	
23	BIOL 452	Biology of Cancer	3	6	BIOL 231 Human Anatomy and Physiology II (479) (C and above) OR BIOL 301 Molecular Biology of Cell with Lab (1197) (C and above) OR BIOL 331 Human Anatomy and Physiology II (6218) (C and above) OR BIOL 301 Molecular Cell Biology (5809) (C and above)			Biological Sciences	SST	SHSS	
24	BIOL 455	Biotechnology	3	6	BIOL 301 Molecular Biology of Cell with Lab (1197) (C- and above) OR (BIOL 301 Molecular Cell Biology (5809) (C- and above) AND BIOL 301L Molecular Cell Biology Laboratory (5678) (C- and above))			Biological Sciences	SST	SHSS	
25	BIOL 470	Advanced Cell Biology	3	6	BIOL 120 Modern Biology II (1195) (C and above) AND BIOL 110L Modern Biology I Laboratory (5448) (C and above) AND (BIOL 341 Biochemistry I (2002) (C and above) OR CHEM 341 Biochemistry I (1058) (C and above))			Biological Sciences	SST	SHSS	
26	BIOL 490	Honors Thesis Research	0	0	BIOL 355 Critical Research Reasoning (1000) (B and above)			Biological Sciences	SST	SHSS	
Chemistry											
27	CHEM 090	Chemistry for Non-Science majors	3	6				SHSS			
28	CHEM 091	Survey of Physical Science	3	6				SHSS			
29	CHEM 101	General Chemistry I	3	6				Biological Sciences, Chemistry	SST	SHSS	
30	CHEM 101L	General Chemistry I lab	1	2		CHEM 101 General Chemistry I (113) (C and above)		Biological Sciences, Chemistry	SST	SHSS	
31	CHEM 102	General Chemistry II	3	6	CHEM 101 General Chemistry I (113) (C and above)			Chemistry	Biological Sciences	SST	
32	CHEM 102L	General Chemistry II lab	1	2	CHEM 101L General Chemistry I lab (179) (C and above)	CHEM 102 General Chemistry II (232) (C and above)		Chemistry	Biological Sciences	SST	
33	CHEM 189c	Independent Study	3	6							

34	CHEM 211	Organic Chemistry I	3	6	CHEM 102 General Chemistry II (232) (C and above)			Chemistry	Biological Sciences	SST	
35	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)		Chemistry	Biological Sciences	SST	
36	CHEM 220	Quantitative Chemical Analysis	3	6	CHEM 102 General Chemistry II (232) (C and above)			Chemistry	Biological Sciences	SST	
37	CHEM 250	Descriptive Inorganic Chemistry	3	6	CHEM 101 General Chemistry I (113) (C and above)			Chemistry	Biological Sciences	SST	
38	CHEM 331	Physical Chemistry I	3	6	CHEM 220 Quantitative Chemical Analysis (555) (C and above) AND PHYS 161 Physics I for Scientists and Engineers with Laboratory (116) (C and above)			Chemistry	Biological Sciences	SST	
39	CHEM 331L	Physical Chemistry Lab	1	2		CHEM 331 Physical Chemistry I (634) (C and above)		Chemistry	Biological Sciences	SST	
40	CHEM 341	Biochemistry I	3	6	CHEM 211 Organic Chemistry I (154) (C and above)			Chemistry	Biological Sciences	SST	
41	CHEM 341L	Biochemistry I Lab	1	2	CHEM 212L Organic Chemistry II Lab (444) (C and above)	CHEM 341 Biochemistry I (1058) (C and above)		Chemistry	Biological Sciences	SST	
42	CHEM 350	Advanced Inorganic Chemistry	3	6	CHEM 212 Organic Chemistry II (443) (C and above) AND CHEM 212L Organic Chemistry II Lab (444) (C and above) AND CHEM 250 Descriptive Inorganic Chemistry (445) (C and above)			Chemistry	Biological Sciences	SST	
43	CHEM 400	Chemistry Seminar	3	6	CHEM 380 Research Methods (636) (C and above)			Chemistry	Biological Sciences	SST	
44	CHEM 410	Structural Spectroscopy	4	8	CHEM 212 Organic Chemistry II (443) (C and above)			Chemistry	Biological Sciences	SST	
45	CHEM 431	Computational Chemistry	3	6	CHEM 332 Physical Chemistry II (1056) (C and above) AND (CSCI 111 Web Programming and Problem Solving (110) (C- and above) OR CSCI 150 Fundamentals of Programming (1501) (C- and above) OR CSCI 151 Programming for Scientists and Engineers (192) (C- and above))			Chemistry	Biological Sciences	SST	
Communication and Composition											
46	COMM 225	Science Writing for Popular Media	3	6				SST	SHSS		

47	WCS 150	Rhetoric and Composition	3	6				1 year UG SHSS, 2 year UG SHSS	SHSS	SST	
48	WCS 200	Introduction to Public Speaking	3	6	WCS 150 Rhetoric and Composition (2183) (C- and above)			SHSS	SST		
49	WCS 250	Advanced Rhetoric and Composition	3	6	WCS 150 Rhetoric and Composition (2183) (C- and above)			2 year UG SHSS	SHSS	SST	
50	WCS 390	Writing Fellows I - Composition and Collaboration in Theory and Practice	3	6	WCS 150 Rhetoric and Composition (2183) (B and above) AND (WCS 210 Technical and Professional Writing (4881) (B+ and above) OR WCS 220 Science Writing (5686) (B+ and above) OR WCS 230 Say What you Mean: Clarity, Precision, and Style in Academic Writing (3026) (B+ and above) OR WCS 240 Writing for Digital Media (4421) (B+ and above) OR WCS 250 Advanced Rhetoric and Composition (3027) (B+ and above))			Through Add form only			
Economics											
51	ECON 101	Introduction to Microeconomics	3	6				1 year UG SHSS	2 year UG SHSS	SHSS, SST	
52	ECON 102	Introduction to Macroeconomics	3	6				1 year UG SHSS	2 year UG SHSS	SHSS, SST	
53	ECON 201	Intermediate Microeconomics	3	6	ECON 101 Introduction to Microeconomics (379) (B- and above) AND (MATH 161 Calculus I (118) (B- and above) OR MATH 162 Calculus II (170) (B- and above))			2 year UG SHSS	SHSS	SST	
54	ECON 202	Intermediate Macroeconomics	3	6	ECON 102 Introduction to Macroeconomics (503) (B- and above) AND (MATH 161 Calculus I (118) (B- and above) OR MATH 162 Calculus II (170) (B- and above))			2 year UG SHSS	SHSS	SST	
55	ECON 211	Economic Statistics	3	6	ECON 101 Introduction to Microeconomics (379) (C and above) OR ECON 102 Introduction to Macroeconomics (503) (C and above)			2 year UG SHSS	SHSS	SST	

56	ECON 301	Econometrics I	3	6	ECON 211 Economic Statistics (2280) (C- and above) OR (MATH 321 Probability (482) (C- and above) AND (MATH 322 Mathematical Statistics (1165) (C- and above) OR MATH 310 Applied Statistical Methods (82) (C- and above)))			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
57	ECON 302	Game Theory and Economic Analysis	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)		PLS 315 Political Game Theory (704) (C- and above)	4 year UG SHSS	3 year UG SHSS	SHSS, SST	
58	ECON 320	Money and Banking	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
59	ECON 341	Economic Simulation Modeling	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
60	ECON 403	Introduction to Contract Theory and Auctions	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
61	ECON 405	Behavioral and Experimental Economics	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
62	ECON 413	Econometrics II Time Series	3	6	ECON 301 Econometrics I (664) (C- and above)			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
63	ECON 415	Industrial Organization	3	6	ECON 301 Econometrics I (664) (C- and above)			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
64	ECON 416	Empirical Industrial Organization	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)			4 year UG SHSS	3 year UG SHSS	SHSS, SST	
History, Philosophy and Religious Studies											
65	HST 100	History of Kazakhstan	3	6				4 year UG SENG, 4 year UG SHSS, 4 year UG SST	1 year UG SENG, 1 year UG SHSS, 1 year UG SST	SEng, SHSS, SST	
66	HST 123	Introduction to the History of Science and Technology	3	6				1 year UG SHSS, 2 year UG SHSS, History	SHSS, SST		
67	HST 124	Introduction to the History of Medicine	3	6				1 year UG SHSS, 2 year UG SHSS, History	SHSS, SST		
68	HST 131	European History I (to 1700)	3	6				SHSS, SST			

69	HST 182	East Asian History II (from 1500)	3	6				1 year UG SHSS, 2 year UG SHSS, History	SHSS, SST		
70	HST 240	Representations of Nature in the Early Modern World	3	6	HST 100 History of Kazakhstan (172) (C- and above)			History	SHSS, SST		
71	HST 327	Global Cold War	3	6	HST 100 History of Kazakhstan (172) (C- and above) OR HST 103 Central Asian History I (to 1700) (197) (C- and above) OR HST 104 Central Asian History II (1700 - 1991) (1192) (C- and above) OR HST 121 World History I (to 1500) (1193) (C- and above) OR HST 122 World History II (from 1500) (1162) (C- and above) OR HST 131 European History I (to 1700) (201) (C- and above) OR HST 132 European History II (from 1700) (139) (C- and above) OR HST 151 US History I (to 1877) (668) (C- and above) OR HST 152 US History II (from 1877) (465) (C- and above) OR HST 172 Middle Eastern History II (from 1800) (1194) (C- and above) OR HST 182 East Asian History II (from 1500) (213) (C- and above) OR HST 199 Freshman Seminar (241) (C- and above)			History	SHSS, SST		
72	HST 328	History of the Anthropocene	3	6	Subject "HST" BETWEEN 100 and 199			History	SHSS, SST		

73	HST 335	European Nationalisms	3	6	HST 100 History of Kazakhstan (172) (C- and above) OR HST 103 Central Asian History I (to 1700) (197) (C- and above) OR HST 104 Central Asian History II (1700 - 1991) (1192) (C- and above) OR HST 121 World History I (to 1500) (1193) (C- and above) OR HST 122 World History II (from 1500) (1162) (C- and above) OR HST 131 European History I (to 1700) (201) (C- and above) OR HST 132 European History II (from 1700) (139) (C- and above) OR HST 151 US History I (to 1877) (668) (C- and above) OR HST 152 US History II (from 1877) (465) (C- and above) OR HST 172 Middle Eastern History II (from 1800) (1194) (C- and above) OR HST 182 East Asian History II (from 1500) (213) (C- and above) OR HST 199 Freshman Seminar (241) (C- and above)			History	SHSS, SST		
74	HST 423	Orthodox Christianity in Modern and Revolutionary Russia	3	6	Subject "HST" BETWEEN 200 and 299 OR Subject "HST" BETWEEN 300 and 399			History	SHSS, SST		
75	HST 498	Directed Reading	3	6							
76	PHIL 101	Introduction to Philosophy	3	6				1 year UG SHSS, 2 year UG SHSS	SHSS, SST		
77	PHIL 110	The Good Life in Practice	3	6				1 year UG SHSS, 2 year UG SHSS	SHSS, SST		
78	PHIL 124	Knowledge and Reality	3	6				1 year UG SHSS, 2 year UG SHSS	SHSS, SST		
79	PHIL 205	Introduction to Modern Philosophy	3	6				SHSS	SST		
80	PHIL 215	Bioethics	3	6				SHSS, SST			
81	PHIL 223	Philosophy of Science	3	6				SHSS, SST			
82	PHIL 240	Formal Logic	3	6				SHSS, SST			
83	PHIL 325	Truth, Lies, Media, and Propaganda	3	6				SHSS, SST			
84	PHIL 361	Philosophy of Language	3	6				SHSS, SST			

85	PHIL 399	Special Topics in Philosophy	3	6	PHIL 101 Introduction to Philosophy (242) (C- and above) OR PHIL 210 Ethics (459) (C- and above) OR PHIL 320 Truth, Knowledge and Belief (470) (C- and above) OR PHIL 230/PLS 230 Religion and Democracy (671) (C- and above)						
86	REL 410	Buddhism in Central Asia	3	6	Subject "REL" BETWEEN 100 and 199			SHSS, SST			
History, Philosophy and Religious Studies, History, Philosophy and Religious Studies											
87	HST 261/REL 261	History of Islam (570s to 1258)	3	6	Subject "HST" BETWEEN 100 and 199 OR Subject "REL" BETWEEN 100 and 199			History	SHSS, SST		
88	HST 329/REL 329	Women in Islamic History	3	6				History	SHSS, SST		
History, Philosophy and Religious Studies, Political Science and International Relations											
89	PHIL 231/PLS 222	Global Justice	3	6				SHSS	SST		
History, Philosophy and Religious Studies, Sociology and Anthropology											
90	HST 381/SOC 319	AIDS and Society	3	6	Subject "HST" BETWEEN 101 and 199 OR HST 100 History of Kazakhstan (172) (B- and above)			History	SHSS, SST		
Kazakh Language and Turkic Studies											
91	KAZ 001	Kazakh Language Placement Test	0	0							
92	KAZ 100	Elementary Kazakh	3	6							
93	KAZ 101	Basic Kazakh I	3	6	KLL "[A2] Basic"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
94	KAZ 111	Intermediate Kazakh I	3	6	KLL "[B1.2] Intermediate"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
95	KAZ 121	Upper-Intermediate Kazakh	3	6	KLL "[B2.2] Upper-Interm."				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	

96	KAZ 211	Academic Speaking in Kazakh	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"		KAZ 212 Academic Writing in Kazakh (703) (C- and above)		1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
97	KAZ 212	Academic Writing in Kazakh	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"		KAZ 211 Academic Speaking in Kazakh (702) (C- and above)		1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
98	KAZ 226	Kazakh for Medical School	3	6	KLL "[B1.2] Intermediate"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
99	KAZ 263	Business Etiquette	3	6	KLL "[B2.2] Upper-Interm." OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
100	KAZ 313	Kazakh for Business	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
101	KAZ 351	Kazakh Short Stories	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
102	KAZ 354	Kazakh Drama	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	

103	KAZ 356	Kazakh Music History	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
104	KAZ 357	Literature of Alash	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
105	KAZ 362	Creative Writing in Kazakh Language	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
106	KAZ 363	Language and Globalization	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
107	KAZ 364	Kazakh for Civil Service	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
108	KAZ 365	Abai's World	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"						
109	KAZ 366	Kazakh Language for Engineers	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
110	KAZ 368	Onomastics: History and Function of Names	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	

111	KAZ 371	Contemporary Kazakh Literature	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
112	KAZ 372	Language and ethnicity	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
113	KAZ 373	Kazakh Terminology	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
114	KAZ 374	Kazakh Diplomacy	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
115	KAZ 375	Cultural Studies and Kazakh Culture	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				1 year UG SENG, 1 year UG SST, 4 year UG SENG, 4 year UG SST	1 year UG SHSS, 2 year UG SHSS, 3 year UG SHSS, 4 year UG SHSS, SEng, SST	
116	TUR 231	Istanbul in Literature and Culture	3	6				SHSS	SST		
117	TUR 305	Introduction to Chagatay and Ottoman Turkish	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			SHSS, SST			
118	TUR 411	Advanced Readings in Turkish Literature	3	6				SHSS, SST			
Languages, Literature and Linguistics											
119	CHN 101	Beginning Mandarin I	4	8				World Languages, Literature and Culture	1 year UG SHSS	1 year UG SST	
120	CHN 201	Intermediate Mandarin I	4	8	CHN 102 Beginning Mandarin II (1844) (C and above)			SHSS, SST			
121	CHN 202	Intermediate Mandarin II	4	8	CHN 201 Intermediate Mandarin I (2181) (C and above)			SHSS, SST			

122	FRE 201	Intermediate French I	4	8	FRE 102 Beginning French II (454) (C- and above)			World Languages, Literature and Culture	SHSS	SST	
123	FRE 312	Advanced Expression	3	6	FRE 201 Intermediate French I (667) (C- and above)			SHSS, SST			
124	GER 102	Beginning German II	4	8	GER 101 Beginning German (3173) (C- and above)			World Languages, Literature and Culture	SHSS	SST	
125	GER 201	Intermediate German I	4	8	GER 102 Beginning German II (3335) (C- and above)			World Languages, Literature and Culture	SHSS	SST	
126	LING 131	Introduction to Linguistics	3	6				World Languages, Literature and Culture	SHSS	SST	
127	LING 272	Language and the Mind	3	6				World Languages, Literature and Culture	SHSS	SST	
128	LING 273	Survey of Research Methods in Linguistics	3	6	LING 131 Introduction to Linguistics (1394) (C- and above)			1 year UG SHSS	SHSS	SST	
129	LING 277	Language Diversity and Language Universals	3	6	LING 131 Introduction to Linguistics (1394) (C and above)			World Languages, Literature and Culture	SHSS	SST	
130	LING 278	Sounds of the World's Languages	3	6				World Languages, Literature and Culture	SHSS	SST	
131	LING 374	Language Contact in Central Asia	3	6	LING 131 Introduction to Linguistics (1394) (C- and above)			World Languages, Literature and Culture	SHSS	SST	
132	SPA 101	Beginning Spanish I	4	8				World Languages, Literature and Culture	1 year UG SHSS	1 year UG SST, 2 year UG SHSS, 2 year UG SST	
133	SPA 201	Intermediate Spanish I	4	8	SPA 102 Beginning Spanish II (1128) (C- and above)			World Languages, Literature and Culture	SHSS	SST	
134	SPA 314	Advanced Spanish Grammar and Composition	3	6	SPA 202 Intermediate Spanish II (1842) (C- and above)			SHSS, SST			
135	WLL 101	Introduction to Critical Issues in the Humanities and Social Sciences	3	6				World Languages, Literature and Culture	SHSS	SST	
136	WLL 110	Introduction to Literary Studies	3	6				World Languages, Literature and Culture	SHSS	SST	
137	WLL 201	World Literature I	3	6				World Languages, Literature and Culture	SHSS	SST	

138	WLL 244	Survey of Nineteenth-Century Russian Literature	3	6				World Languages, Literature and Culture	SHSS	SST	
139	WLL 248	Survey of Soviet Literature and Culture	3	6				World Languages, Literature and Culture	SHSS	SST	
140	WLL 250	From Page to Screen	3	6				World Languages, Literature and Culture	SHSS	SST	
141	WLL 345	Modern Japanese Literature	3	6	Subject "WLL" BETWEEN 1 and 499 OR Subject "" BETWEEN 1 and 499 OR Subject "" BETWEEN 1 and 499 OR Subject "HST" BETWEEN 1 and 499 OR Subject "" BETWEEN 1 and 499 OR Subject "" BETWEEN 1 and 499			World Languages, Literature and Culture	SHSS	SST	
142	WLL 355	Graphic Narrative: Advanced Readings in Sequential Art	3	6	WLL 155 Introduction to the Comic Book (3046) (C- and above) OR WLL 255 The Comic Book in Japan and America (1849) (C- and above)			World Languages, Literature and Culture	SHSS	SST	
143	WLL 399	Independent Study	3	6				Through Add form only			
144	WLL 498	Languages, Linguistics, and Literatures Capstone I	3	6				4 year UG SHSS World Language and Literature			
Languages, Literature and Linguistics, Languages, Literature and Linguistics											
145	WLL 254/SPA 254	Superstition, Magical Realism, and Horror in Hispanic Culture	3	6	Subject "WLL" BETWEEN 100 and 499 OR Subject "HST" BETWEEN 100 and 499			World Languages, Literature and Culture	SHSS	SST	
Languages, Literature and Linguistics, Sociology and Anthropology											
146	ANT 277/WLL 271	Language and Society	3	6				2 year UG SHSS, Anthropology	SHSS	SST	
147	ANT 385/WLL 385	Postcolonial Theory and its Applications in Eurasia	3	6	ANT 110 Introduction to Sociocultural Anthropology (501) (C- and above) OR SOC 101 Introduction to Sociology (508) (C- and above) OR WLL 121 Introduction to Cultural Studies (243) (C- and above) OR WLL 102 /PHIL 102 Language, Experience, Culture (2481) (C- and above)			Anthropology, Sociology, World Languages, Literature and Culture	3 year UG SHSS, 4 year UG SHSS	SHSS, SST	
Mathematics											
148	MATH 109	Mathematical Discovery	3	6			MATH 161 Calculus I (118) (C- and above)	SHSS	SST		

149	MATH 161	Calculus I	4	8				1 year UG SST	SST	SHSS	
150	MATH 162	Calculus II	4	8	MATH 161 Calculus I (118) (C and above)			3 year UG SHSS, 4 year UG SHSS, Economics, SST	SHSS		
151	MATH 251	Discrete Mathematics	3	6	MATH 161 Calculus I (118) (C and above)			Computer Science, Mathematics	SST	SHSS	
152	MATH 263	Calculus III	4	8	MATH 162 Calculus II (170) (C and above)			3 year UG SHSS, 4 year UG SHSS, SST	SHSS		
153	MATH 273	Linear Algebra with Applications	4	8	MATH 161 Calculus I (118) (C and above)	MATH 162 Calculus II (170) (C and above)		4 year UG SHSS, SST	SHSS		
154	MATH 274	Introduction to Differential Equations	3	6	MATH 162 Calculus II (170) (C and above)			4 year UG SHSS, SST	SHSS		
155	MATH 301	Introduction to Number Theory	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 251 Discrete Mathematics (85) (C and above)			Mathematics	SHSS, SST		
156	MATH 302	Abstract Algebra I	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 251 Discrete Mathematics (85) (C and above)			Mathematics	SHSS, SST		
157	MATH 310	Applied Statistical Methods	3	6	MATH 161 Calculus I (118) (C and above)		MATH 321 Probability (482) (C and above)	2 year UG SST Biological Sciences, 2 year UG SST Computer Science, 3 year UG SST Biological Sciences, 3 year UG SST Computer Science, 4 year UG SST Biological Sciences, 4 year UG SST Computer Science, 5 year UG SST Biological Sciences, 5 year UG SST Computer Science	Mathematics, SHSS		
158	MATH 321	Probability	3	6	MATH 162 Calculus II (170) (C and above)		ECON 211 Economic Statistics (2280) (C- and above) OR PLS 211 Quantitative Methods (221) (C- and above)	4 year UG SHSS, Computer Science, Mathematics	SHSS, SST		

159	MATH 323	Actuarial Mathematics I	3	6	MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above) OR (MATH 162 Calculus II (170) (C and above) AND MATH 310 Applied Statistical Methods (82) (C and above))		Mathematics	SHSS, SST		
160	MATH 351	Numerical Methods with Applications	3	6	MATH 274 Introduction to Differential Equations (484) (C and above) AND MATH 263 Calculus III (81) (C and above)	ENG 202 Numerical Methods in Engineering (5506) (C and above)	Mathematics	SHSS, SST		
161	MATH 361	Real Analysis I	3	6	MATH 263 Calculus III (81) (C and above) AND MATH 251 Discrete Mathematics (85) (C and above)		Mathematics	SHSS, SST		
162	MATH 411	Linear Programming	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 263 Calculus III (81) (C and above)		Mathematics	SHSS, SST		
163	MATH 425	Stochastic Processes	3	6	MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above)		Mathematics	SHSS, SST		
164	MATH 440	Regression Analysis	3	6	MATH 322 Mathematical Statistics (1165) (C and above)	SOC 203 Quantitative Methods in Sociology (1377) (C and above) OR PLS 211 Quantitative Methods (221) (C and above)	Mathematics	SHSS, SST		
165	MATH 471	Nonlinear Differential Equations	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 274 Introduction to Differential Equations (484) (C and above)		Mathematics	SHSS, SST		
166	MATH 481	Partial Differential Equations	3	6	MATH 274 Introduction to Differential Equations (484) (C and above)	MATH 480 Complex Analysis (618) (C and above)	Mathematics	SHSS, SST		
Physics										
167	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)	SST	SHSS	

168	PHYS 201	Introductory Astronomy I	3	6				SHSS, SST			
169	PHYS 221	Classical Mechanics I	3	6	(PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above)) AND MATH 273 Linear Algebra with Applications (84) (C- and above)			Physics	SHSS, SST		
170	PHYS 261	Modern Physics with laboratory	4	8	MATH 162 Calculus II (170) (C- and above) AND (PHYS 152 Introductory Physics II with Lab (1176) (C- and above) OR PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above))			Physics	SHSS, SST		
171	PHYS 315	Mathematical Methods of Physics	3	6	(PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above) OR PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above)) AND MATH 274 Introduction to Differential Equations (484) (C- and above)			Physics	SHSS, SST		
172	PHYS 361	Classical Electrodynamics I	3	6		PHYS 315 Mathematical Methods of Physics (653) (D and above) OR PHYS 411 Advanced Mathematical Physics (3142) (D and above)		SHSS, SST			
173	PHYS 452	Quantum Mechanics II	3	6	PHYS 451 Quantum Mechanics I (1415) (C- and above)			SHSS, SST			
174	PHYS 465	Advanced Experimental Physics	3	6	PHYS 370 Optics with Laboratory (1405) (C- and above)			Physics			
175	PHYS 474	Lasers and Photonics	3	6	PHYS 370 Optics with Laboratory (1405) (C- and above)			SHSS, SST			
176	PHYS 491	Directed Study of Advanced Physics Topics	3	6				Through Add form only			
Political Science and International Relations											
177	PLS 101	Introduction to Political Science	3	6				SST	1 year UG SHSS	SHSS	

178	PLS 120	Introduction to Political Theory	3	6				1 year UG SHSS, Political Science and International Relations	SHSS	SST	
179	PLS 140	Introduction to Comparative Politics	3	6				1 year UG SHSS	Political Science and International Relations	SHSS, SST	
180	PLS 150	Introduction to International Relations	3	6						SHSS, SST	
181	PLS 210	Political Science Research Methods	3	6				Political Science and International Relations	SHSS		
182	PLS 211	Quantitative Methods	3	6			ECON 211 Economic Statistics (2280) (C- and above)	Political Science and International Relations	SHSS		
183	PLS 340	Politics of East Asia	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	SHSS		
184	PLS 359	United Nations	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	SHSS		
185	PLS 360	Foreign Policy Analysis	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Political Science and International Relations	SHSS		
186	PLS 370	Law, Politics and Society	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	SHSS		
187	PLS 391	Intermediate Special Topics in Comparative Politics	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	SHSS		
188	PLS 412	Scientific Research in International Relations	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Political Science and International Relations	SHSS		
189	PLS 421	Theories of Political Obligations	3	6	PLS 325 Ancient Political Theory (675) (C- and above) OR PLS 326 Modern Political Theory (1131) (C- and above)			Political Science and International Relations	SHSS, SST		
190	PLS 422	Just War Theory	3	6	PLS 120 Introduction to Political Theory (512) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	SHSS, SST		

191	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)			Political Science and International Relations	SHSS, SST		
192	PLS 445	Political Violence	3	6	(PLS 140 Introduction to Comparative Politics (223) (C- and above) OR PLS 150 Introduction to International Relations (511) (C- and above)) AND PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	SHSS, SST		
193	PLS 465	Politics of International Finance	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	SHSS, SST		
194	PLS 469	International Relations of Eurasia	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	SHSS, SST		
195	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)			Through Add form only			
SSH											
196	SSH 301	School of Sciences and Humanities Internship: Second Experience	3	6				Through Add form only			
Sociology and Anthropology											
197	ANT 110	Introduction to Sociocultural Anthropology	3	6				1 year UG SHSS, Anthropology	2 year UG SHSS	SHSS, SST	
198	ANT 140	World Prehistory	3	6				1 year UG SHSS, Anthropology	2 year UG SHSS	SHSS, SST	
199	ANT 160	Introduction to Biological Anthropology	3	6			ANT 361 Human Evolution: Bones, Stones and Genomes (160) (C- and above)	1 year UG SHSS, Anthropology	2 year UG SHSS	SHSS, SST	
200	ANT 231	Frauds and Fallacies in Archaeology	3	6				2 year UG SHSS, Anthropology	SHSS	SST	
201	ANT 400	Research Assistance in Anthropology	1	2							
202	ANT 498	Capstone Seminar I	3	6				4 year UG SHSS Anthropology			

203	SOC 101	Introduction to Sociology	3	6				1 year UG SHSS, 2 year UG SHSS, Anthropology, Biological Sciences, Sociology		SHSS	
204	SOC 115	Global Social Problems	3	6				1 year UG SHSS	2 year UG SHSS	SHSS, SST	
205	SOC 203	Quantitative Methods in Sociology	3	6				Anthropology, Sociology	SHSS	SST	
206	SOC 215	Sociology of Race and Ethnicity	3	6				Anthropology, Sociology	SHSS	SST	
207	SOC 301	Classical Sociological Theory	3	6	SOC 101 Introduction to Sociology (508) (C- and above) OR SOC 115 Global Social Problems (1032) (C- and above) OR ANT 110 Introduction to Sociocultural Anthropology (501) (C- and above)			Anthropology, Sociology	3 year UG SHSS, 4 year UG SHSS	SHSS, SST	
208	SOC 314	Organizations and Society	3	6	SOC 101 Introduction to Sociology (508) (C- and above) OR SOC 115 Global Social Problems (1032) (C- and above)			Anthropology, Sociology	SHSS	SST	
209	SOC 318	Sexuality and Gender in a Transnational World	3	6	SOC 101 Introduction to Sociology (508) (C- and above) OR SOC 115 Global Social Problems (1032) (C- and above) OR SOC 210 Gender and Society (226) (C- and above)			Anthropology, Sociology	3 year UG SHSS, 4 year UG SHSS	SHSS, SST	
210	SOC 400	Research Assistance in Sociology	1	2							
211	SOC 403	Research Assistance in Sociology	2	4							
212	SOC 420	Applied Policy Analysis: Tools and Perspectives	3	6	SOC 101 Introduction to Sociology (508) (C and above)			Anthropology, Sociology	3 year UG SHSS, 4 year UG SHSS	SHSS, SST	
213	SOC 498	Capstone Seminar Part I	3	6				Anthropology, Sociology	SHSS	SST	
Sociology and Anthropology, Sociology and Anthropology											
214	ANT 216/SOC 216	Marriage and Kinship	3	6				1 year UG SHSS, 2 year UG SHSS, Anthropology	SHSS	SST	
215	SOC 212/ANT 285	Food and Society	3	6				Anthropology, Sociology	1 year UG SHSS, 2 year UG SHSS	SHSS, SST	
SEDS											
Chemical and Materials Engineering											
216	ECHE 126	Introduction to Chemical Engineering	3	6							

217	ECHE 222	Chemistry I	3	6							
218	ECHE 319	Chemical Engineering Thermodynamics	3	6							
219	ECHE 333	Separation Processes-I	3	6	ECHE 319 Chemical Engineering Thermodynamics (1218) (D and above)						
220	ECHE 369	Transport Phenomena-II	3	6							
221	ECHE 385	Research Practice	3	6							
222	ECHE 418	Capstone project 1	3	6	ECHE 323 Computational methods in Chemical Engineering-I (1272) (D and above)						
223	ECHE 419	Advanced Process Simulation	3	6	ECHE 323 Computational methods in Chemical Engineering-I (1272) (D and above)						
224	ECHE 481	Chemical Reaction Engineering	3	6	ECHE 126 Introduction to Chemical Engineering (33) (D and above) AND BENG 124 Engineering Mathematics I (101) (D and above) AND BENG 225 Engineering Mathematics II (48) (D and above)						
225	ECHE 482	Computational Methods in Chemical Engineering-II	3	6	ECHE 319 Chemical Engineering Thermodynamics (1218) (D and above) AND ECHE 333 Separation Processes-I (1271) (D and above) AND ECHE 383 Separation Processes II (1982) (D and above) AND ECHE 481 Chemical Reaction Engineering (1985) (D and above) AND ECHE 323 Computational methods in Chemical Engineering-I (1272) (D and above)						
226	ECHE 484	Multiphase Systems	3	6	ECHE 319 Chemical Engineering Thermodynamics (1218) (D and above) AND ECHE 270 Transport Phenomena-I (735) (D and above)						
Civil and Environmental Engineering											
227	ECE 215	Surveying	3	6							
228	ECE 216	Civil Engineering CAD	3	6							
229	ECE 217	Structural Analysis I	3	6	BENG 117 Engineering Mechanics (740) (D and above)						
230	ECE 302	Civil Engineering Materials	3	6	BENG 221 Engineering Materials (47) (D and above)						

231	ECE 307	Engineering Geology and Rock Mechanics	3	6							
232	ECE 318	Structural Design - Concrete	3	6	ECE 479 Structural Analysis II (2460) (C- and above)						
233	ECE 401	Capstone Project 1	3	6							
234	ECE 404	Construction Technologies and Processes	3	6	BENG 148 Engineering Practice (1073) (D and above) AND ECE 302 Civil Engineering Materials (1040) (D and above)						
235	ECE 405	Environmental Engineering	3	6	ECE 473 Environmental Systems (1953) (D and above) OR ECE 218 Environmental Chemistry (3296) (D and above)						
236	ECE 416	Highway Engineering	3	6	ECE 302 Civil Engineering Materials (1040) (D and above)						
237	ECE 473	Environmental Systems	3	6							
Computer Science											
238	CSCI 151	Programming for Scientists and Engineers	4	8			CSCI 111 Web Programming and Problem Solving (110) (D and above) OR CSCI 115 Programming Fundamentals (5257) (D and above) OR ENG 101 Programming for Engineers (4517) (B- and above)	1 year UG SST	SST	SHSS	
239	CSCI 231	Computer Systems and Organization	3	6	CSCI 151 Programming for Scientists and Engineers (192) (C- and above) OR ENG 100 Introduction to Engineering (4518) (B- and above)			Computer Science			
240	CSCI 262	Software Project Management	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science	SST	SHSS	
241	CSCI 281	Human-Computer Interaction	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science	SST	SHSS	
242	CSCI 307	Research Methods	3	6				Computer Science			
243	CSCI 341	Database Systems	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science			
244	CSCI 344	Data Mining and Decision Support	3	6	CSCI 341 Database Systems (195) (C- and above) AND MATH 273 Linear Algebra with Applications (84) (C- and above)			Computer Science			

245	CSCI 390	Artificial Intelligence	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science			
246	CSCI 408	Senior Project I	3	6				Computer Science			
247	CSCI 434	Information Security	3	6		CSCI 333 Computer Networks (1145) (D and above)		Computer Science			
248	CSCI 471	Complexity and Computability	3	6	MATH 251 Discrete Mathematics (85) (C- and above)			Computer Science			
Electrical and Computer Engineering											
249	EEE 212	Signals and Systems	3	6	BENG 225 Engineering Mathematics II (48) (D and above)						
250	EEE 238	Digital Signal and Image Processing	3	6							
251	EEE 250	Microelectronic Devices and Circuits	3	6	BENG 114 Introduction to Electrical Systems (1076) (D and above)						
252	EEE 251	Electronic Engineering Design Principles	3	6	BENG 114 Introduction to Electrical Systems (1076) (D and above)						
253	EEE 342	Electromagnetics	3	6							
254	EEE 345	Power Electronics	3	6							
255	EEE 382	Antennas and Propagation	3	6							
256	EEE 384	Digital Integrated Circuits Design	3	6	EEE 250 Microelectronic Devices and Circuits (3152) (C- and above)						
257	EEE 435	Digital Communications	3	6							
258	EEE 437	Capstone Project 1	3	6							
259	EEE 448	Power Transmission and Distribution plants	3	6							
260	EEE 450	RF and Microwave Circuit Design	3	6							
261	EEE 451	High Voltage Engineering	3	6							
262	EEE 452	Power Systems Protection	3	6							
263	EEE 482	Mobile Communications	3	6	EEE 239 Communication systems (534) (C- and above)						
Mechanical and Aerospace Engineering											
264	EME 253	Computer Aided Engineering	3	6							
265	EME 254	Mechanics of Materials	3	6							
266	EME 262	Machine Dynamics I	3	6							

267	EME 354	Advanced Control Systems	3	6	BENG 219 Control Systems (728) (D and above)						
268	EME 358	Heat Transfer	3	6	BENG 226 Engineering Thermodynamics (1553) (D and above) AND EME 275 Fluid Mechanics I (1988) (D and above)						
269	EME 361	Machine Design	3	6							
270	EME 410	Aerodynamics	3	6	EME 357 Fluid Mechanics II (1280) (D and above)						
271	EME 412	Heating, Ventilating and Air Conditioning	3	6							
272	EME 413	Computer Aided Geometric Design	3	6	EME 253 Computer Aided Engineering (1050) (C- and above)						
273	EME 451	Capstone Project 1	3	6							
274	EME 463	Machine Dynamics II	3	6							
275	EME 467	Vehicle Propulsion Systems	3	6							
276	EME 486	Oscillation of Mechanical Systems	3	6							
277	MAE 457	Feasibility Analysis of Clean Energy Technologies	3	6							
Robotics and Mechatronics											
278	ROBT 201	Mechanics: Statics and Dynamics	3	6	MATH 162 Calculus II (170) (C- and above) AND (PHYS 161 Physics I for Scientists and Engineers with Laboratory (116) (C- and above) OR PHYS 171 Physics I for Physics Majors with Laboratory (1401) (C- and above))			Robotics and Mechatronics	SHSS, SST		
279	ROBT 203	Electrical and Electronic Circuits I with Lab	4	8	MATH 162 Calculus II (170) (C- and above) AND (PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above) OR (PHYS 141 Physics I for non-majors with Lab (1437) (C- and above) AND PHYS 142 Physics II for non-majors with Lab (1438) (C- and above)))			Robotics and Mechatronics	SHSS, SST		

280	ROBT 205	Signals and Sensing with Lab	4	8	MATH 162 Calculus II (170) (C- and above) AND (PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above))			Robotics and Mechatronics	SHSS, SST		
281	ROBT 301	Mechanical Design I with CAD Laboratory	4	8	ROBT 201 Mechanics: Statics and Dynamics (475) (C- and above)			Robotics and Mechatronics	SHSS, SST		
282	ROBT 303	Linear Control Theory with Lab	4	8	ROBT 202 System Dynamics and Modeling (68) (C- and above) AND MATH 274 Introduction to Differential Equations (484) (C- and above)			Robotics and Mechatronics	SHSS, SST		
283	ROBT 305	Embedded Systems	3	6	ROBT 206 Microcontrollers with Lab (476) (C- and above)			Robotics and Mechatronics	SHSS, SST		
284	ROBT 307	Power Electronics	3	6	ROBT 204 Electrical and Electronic Circuits II with Lab (491) (C- and above)			Robotics and Mechatronics	SHSS, SST		
285	ROBT 401	Robot Dynamics and Control	3	6	ROBT 303 Linear Control Theory with Lab (623) (C- and above)			Robotics and Mechatronics	SHSS, SST		
286	ROBT 407	Statistical Methods and Machine Learning	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 321 Probability (482) (C and above) AND CSCI 152 Performance and Data Structures (489) (C and above)			Robotics and Mechatronics	SHSS, SST		
287	ROBT 414	Human-Robot Interaction	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Robotics and Mechatronics	SHSS, SST		
School of Engineering											
288	BENG 117	Engineering Mechanics	3	6							
289	BENG 124	Engineering Mathematics I	3	6							
290	BENG 145	Occupal and Environment Health and Safety	3	6							
291	BENG 146	Programming for Engineers	3	6							
292	BENG 215	Sensors and Actuators	3	6							
293	BENG 221	Engineering Materials	3	6							
294	BENG 228	Engineering Mathematics III	3	6	BENG 124 Engineering Mathematics I (101) (D and above) AND BENG 225 Engineering Mathematics II (48) (D and above)						
295	BENG 304	Internship	2	4							

296	BENG 308	Internship	4	8							
297	BENG 312	Internship	6	12							
298	BENG 405	Project Management	3	6							