

Course Requirements and Registration Priorities (Undergraduate), Spring 2018

#	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 451	Topics in Microeconomics	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			Through Add form only			
History, Philosophy and Religious Studies, Political Science and International Relations											
2	PLS 328/REL 328	Confucianism and the Development of Chinese Politics	3	6				4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
Kazakh Language and Turkic Studies											
3	KAZ 314	Speech Culture in Business	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
4	KAZ 370	Kazakh for Career Development	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
Other											
Other											
5	T-ELEG 3304	Energy Systems	4	8							
6	T-MEEG 4104	Machine Element Design	3	6							
7	T-PLSC 2003	American National GOVT	3	6							
8	T-THTR 1683	Acting I	3	6							
SoM											
Nursing											
9	NUR 305	Research Methods for Nursing	3	6							
10	NUR 306	Medical-Surgical Nursing: Complex Medical Management for Acute and Chronic Patient	4	8							
11	NUR 307	Health Promotion and Disease Prevention in Culturally Diverse Populations	4	8							
12	NUR 308	Enhanced Communication in Professional Nursing	4	8							

SSH

Biological Science

13	BIOL 101	Biology for non-Science majors	3	6			BIOL 110 Modern Biology I (1070) (C- and above)	SHSS			
14	BIOL 110	Modern Biology I	3	6				Biological Sciences, Chemistry	SST	SHSS	
15	BIOL 120	Modern Biology II	3	6	BIOL 110 Modern Biology I (1070) (C and above)			Biological Sciences, Chemistry	SST	SHSS	
16	BIOL 231	Human Anatomy and Physiology II	4	8	BIOL 230 Human Anatomy and Physiology I (72) (C and above)			Biological Sciences	SST	SEng, SHSS	
17	BIOL 301	Molecular Biology of Cell with Lab	4	8	BIOL 120 Modern Biology II (177) (C and above) OR BIOL 120 Modern Biology II Lab (1445) (C and above) OR BIOL 120L Modern Biology II Laboratory (5443) (C and above)			Biological Sciences	SST	SEng, SHSS	
18	BIOL 321	Bioethics	3	6	BIOL 120 Modern Biology II (1195) (C and above)			Biological Sciences	SST	SEng, SHSS	
19	BIOL 341	Biochemistry I	3	6	CHEM 211 Organic Chemistry I (154) (C and above)			Biological Sciences	SST	SEng, SHSS	
20	BIOL 370	Genetics	3	6	BIOL 120 Modern Biology II (1195) (C and above)			Biological Sciences	SST	SEng, SHSS	
21	BIOL 392	Directed Study in Biology	3	6							
22	BIOL 430	Histology with Laboratory	4	8	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	SEng, SHSS	
23	BIOL 440	Neuroscience	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	SEng, SHSS	
24	BIOL 456	Biology Research Design	3	6		BIOL 355 Critical Research Reasoning (1000) (C and above)		Biological Sciences	SST	SEng, SHSS	
25	BIOL 491	Honors Thesis	9	18	BIOL 490 Honors Thesis Research (1581) (P)			Through Add form only			

Chemistry

26	CHEM 092	Survey of Environmental Sciences for Non-Science Majors	3	6				SHSS			
27	CHEM 101	General Chemistry I	3	6				Biological Sciences, Chemistry	SST	SHSS	
28	CHEM 102	General Chemistry II	3	6	CHEM 101 General Chemistry I (113) (C and above)			Biological Sciences, Chemistry	SST	SHSS	
29	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)		Biological Sciences, Chemistry	SST	SHSS	
30	CHEM 211	Organic Chemistry I	3	6	CHEM 102 General Chemistry II (232) (C and above)			2 year UG SST Biological Sciences, Chemistry	Biological Sciences	SST	
31	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)		2 year UG SST Biological Sciences, Chemistry	Biological Sciences	SST	
32	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)			Chemistry	Biological Sciences	SST	
33	CHEM 212L	Organic Chemistry II Lab	1	2	CHEM 211L Organic Chemistry I Lab (156) (C and above)	CHEM 212 Organic Chemistry II (443) (C and above) OR CHEM 292 Organic Chemistry for Biologists II (1901) (C and above)		Chemistry	Biological Sciences	SST	
34	CHEM 320	Instrumental Analysis	3	6	CHEM 220 Quantitative Chemical Analysis (555) (C and above)			Chemistry	Biological Sciences	SST	
35	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)						

36	CHEM 332	Physical Chemistry II	3	6	CHEM 331 Physical Chemistry I (634) (C and above)	MATH 274 Introduction to Differential Equations (484) (C and above)		Chemistry	Biological Sciences	SST	
37	CHEM 332L	Physical Chemistry II Lab	1	2		CHEM 332 Physical Chemistry II (1056) (C and above) AND CHEM 331L Physical Chemistry Lab (1060) (C and above)		Chemistry	Biological Sciences	SST	
38	CHEM 380	Research Methods	3	6				Chemistry	Biological Sciences	SST	
39	CHEM 442	Biochemistry II with Lab-Metabolic Biochemistry	3	6	CHEM 341 Biochemistry I (1058) (C and above) AND CHEM 212 Organic Chemistry II (443) (C and above)			Chemistry	Biological Sciences	SST	
40	CHEM 451	Applied Homogenous Catalysis	3	6	CHEM 350 Advanced Inorganic Chemistry (1905) (C and above)			Chemistry	Biological Sciences	SST	
41	CHEM 490	Nanochemistry	3	6	CHEM 331 Physical Chemistry I (634) (C and above) AND CHEM 250 Descriptive Inorganic Chemistry (445) (C and above)			Chemistry	Biological Sciences	SST	
42	CHEM 491	Special Topics in Chemistry	3	6				Chemistry	Biological Sciences	SST	
Communication and Composition											
43	COMM 325	Computer-Mediated Communication	3	6				3 year UG SEng Civil Engineering, SHSS, SST			
44	WCS 150	Rhetoric and Composition	3	6				1 year UG SHSS	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
45	WCS 200	Introduction to Public Speaking	3	6	WCS 150 Rhetoric and Composition (2183) (C- and above)			3 year UG SEng Civil Engineering, SHSS, SST			
46	WCS 206	Health Communication	3	6	WCS 101 Communication and Society (199) (C- and above)			3 year UG SEng Civil Engineering, SHSS, SST			
47	WCS 230	Say What you Mean: Clarity, Precision, and Style in Academic Writing	3	6	WCS 150 Rhetoric and Composition (2183) (C- and above)			1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST		

48	WCS 391	Writing Fellows II - Practicum in Composition & Collaboration	3	6	WCS 390 Writing Fellows I - Composition and Collaboration in Theory and Practice (1969) (B and above)			Through Add form only			
Communication and Composition, Languages, Literature and Linguistics											
49	WCS 260/WLL 235	Creative Writing: Introduction to Fiction Writing I	3	6	WCS 150 Rhetoric and Composition (2183) (C- and above)			Through Add form only			
Economics											
50	ECON 101	Introduction to Microeconomics	3	6				1 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST	
51	ECON 102	Introduction to Macroeconomics	3	6				1 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST	
52	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))			Economics	SHSS	3 year UG SEng Civil Engineering, SST	
53	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))			Economics	SHSS	3 year UG SEng Civil Engineering, SST	
54	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)			Economics	SHSS	3 year UG SEng Civil Engineering, SST	
55	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	SST	
56	ECON 321	Economic Growth	3	6	ECON 202 Intermediate Macroeconomics (207) (C- and above)			Economics	SHSS	3 year UG SEng Civil Engineering, SST	

57	ECON 341	Economic Simulation Modeling	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			Economics	SHSS	3 year UG SEng Civil Engineering, SST
58	ECON 345	The Economics of Family	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			Economics	SHSS	3 year UG SEng Civil Engineering, SST
59	ECON 413	Econometrics II Time Series	3	6	ECON 301 Econometrics I (664) (C- and above)			Economics	SHSS	3 year UG SEng Civil Engineering, SST
60	ECON 428	Wages and the Labor Market	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)			Economics	SHSS	3 year UG SEng Civil Engineering, SST
History, Philosophy and Religious Studies										
61	HST 100	History of Kazakhstan	3	6				4 year UG SENG, 4 year UG SHSS, 4 year UG SST	1 year UG SHSS	SEng, SHSS, SST
62	HST 132	European History II (from 1700)	3	6				History	1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST
63	HST 152	US History II (from 1877)	3	6				History	3 year UG SEng Civil Engineering, SHSS, SST	
64	HST 232	Russian History from Rurik to Catherine the Great	3	6				History	1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST
65	HST 239	Modernizing the Periphery: Nationalism, Communism, and Empire in Central Europe, 1890-Present	3	6	Subject "HST" BETWEEN 100 and 199			History	1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST
66	HST 331	The Eurasian Enlightenment	3	6	HST 100 History of Kazakhstan (172) (B and above) OR Subject "HST" BETWEEN 100 and 199			History	3 year UG SEng Civil Engineering, SHSS, SST	
67	HST 499	History Capstone: Undergraduate Dissertation	4	8	HST 498 Directed Reading (1365) (C- and above)			Through Add form only		
68	PHIL 101	Introduction to Philosophy	3	6				SHSS	3 year UG SEng Civil Engineering, SST	
69	PHIL 124	Knowledge and Reality	3	6				SHSS	3 year UG SEng Civil Engineering, SST	

70	PHIL 131	Introduction to Contemporary Political Philosophy	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
71	PHIL 205	Introduction to Modern Philosophy	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
72	PHIL 210	Ethics	3	6				Chemistry	SHSS	3 year UG SEng Civil Engineering, SST	
73	PHIL 223	Philosophy of Science	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
74	PHIL 240	Formal Logic	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
75	PHIL 320	Truth, Knowledge and Belief	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
76	PHIL 321	Social Contract Theory	3	6	PLS 120 Introduction to Political Theory (512) (C- and above)			SHSS	3 year UG SEng Civil Engineering, SST		
77	PHIL 352	Sex, Life, and Death: The Philosophy of Biology	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
78	REL 212	Buddhist Religious Traditions	3	6				1 year UG SENG, 1 year UG SHSS, 1 year UG SST	3 year UG SEng Civil Engineering, SHSS, SST		
History, Philosophy and Religious Studies, History, Philosophy and Religious Studies											
79	HST 263/REL 263	The History of Islam II: Islam in the Modern World	3	6				History	1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
History, Philosophy and Religious Studies, Kazakh Language and Turkic Studies											
80	HST 272/TUR 272	Modern Turkey: from the Ottoman Empire to the Turkish Republic	3	6				1 year UG SENG, 1 year UG SHSS, 1 year UG SST	3 year UG SEng Civil Engineering, SHSS, SST		
History, Philosophy and Religious Studies, Languages, Literature and Linguistics											
81	WLL 102 /PHIL 102	Language, Experience, Culture	3	6				3 year UG SEng Civil Engineering, SHSS, SST			
History, Philosophy and Religious Studies, Languages, Literature and Linguistics, Political Science and International Relations											

82	HST 342/WLL 342/PLS 322	Russian Intellectual History (1762 - 1905)	3	6	Subject "HST" BETWEEN 100 and 199 OR Subject "WLL" BETWEEN 100 and 199 OR Subject "PLS" BETWEEN 100 and 199 OR Subject "REL" BETWEEN 100 and 199		History	3 year UG SEng Civil Engineering, SHSS, SST		
History, Philosophy and Religious Studies, Sociology and Anthropology										
83	ANT 313/REL 332	Islam and Politics in Eurasia	3	6			4 year UG SHSS Political Sciences and International Relations, Anthropology	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
84	HST 223/ANT 287	Cannibalism and Civilization	3	6			Anthropology, History	1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
85	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, Sociology	1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
Kazakh Language and Turkic Studies										
86	KAZ 001	Kazakh Language Placement Test	0	0						
87	KAZ 101	Basic Kazakh I	3	6	KLL "[A2] Basic"				SEng, SHSS, SST	
88	KAZ 111	Intermediate Kazakh I	3	6	KLL "[B1.2] Intermediate"				SEng, SHSS, SST	
89	KAZ 121	Upper-Intermediate Kazakh	3	6	KLL "[B2.2] Upper-Interm."				SEng, SHSS, SST	
90	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)		SEng, SHSS, SST	
91	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)		SEng, SHSS, SST	
92	KAZ 226	Kazakh for Medical School	3	6	KLL "[B1.2] Intermediate"				SEng, SHSS, SST	
93	KAZ 263	Business Etiquette	3	6	KLL "[B2.2] Upper-Interm." OR KLL "[C1.1] Advanced"				SEng, SHSS, SST	
94	KAZ 313	Kazakh for Business	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				SEng, SHSS, SST	
95	KAZ 351	Kazakh Short Stories	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"				SEng, SHSS, SST	

96	KAZ 354	Kazakh Drama	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
97	KAZ 356	Kazakh Music History	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
98	KAZ 357	Literature of Alash	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
99	KAZ 362	Creative Writing in Kazakh Language	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
100	KAZ 364	Kazakh for Civil Service	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
101	KAZ 371	Contemporary Kazakh Literature	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
102	KAZ 372	Language and ethnicity	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
103	KAZ 373	Kazakh Terminology	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
104	KAZ 374	Kazakh Diplomacy	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
105	KAZ 375	Cultural Studies and Kazakh Culture	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"					SEng, SHSS, SST	
106	TUR 230	Literatures of Central Asia	3	6					3 year UG SEng Civil Engineering, SHSS, SST		
107	TUR 412	Advanced Turkish in Media and Politics	3	6					3 year UG SEng Civil Engineering, SHSS, SST		
108	TUR 451	The Turkish Novel	3	6					3 year UG SEng Civil Engineering, SHSS, SST		
Languages, Literature and Linguistics											
109	CHN 101	Beginning Mandarin I	4	8							
110	CHN 102	Beginning Mandarin II	4	8	CHN 101 Beginning Mandarin I (1384) (C and above)				World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST

111	CHN 202	Intermediate Mandarin II	4	8	CHN 201 Intermediate Mandarin I (2181) (C and above)			World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
112	FRE 202	Intermediate French II	4	8	FRE 201 Intermediate French I (667) (C- and above)			World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
113	FRE 322	Contemporary French Civilization	3	6	FRE 202 Intermediate French II (1122) (C- and above)			World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
114	GER 201	Intermediate German I	4	8	GER 102 Beginning German II (3335) (C- and above)			World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
115	GER 202	Intermediate German II	4	8	GER 201 Intermediate German I (3722) (C- and above)			World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
116	LING 130	Introduction to Language and Communication	3	6				World Languages, Literature and Culture	3 year UG SEng Civil Engineering, SHSS, SST	
117	LING 131	Introduction to Linguistics	3	6				World Languages, Literature and Culture	3 year UG SEng Civil Engineering, SHSS, SST	
118	LING 270	Languages of Eurasia	3	6				World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
119	LING 272	Language and the Mind	3	6				SHSS	3 year UG SEng Civil Engineering, SST	
120	LING 278	Sounds of the World's Languages	3	6				World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
121	LING 376	Psycholinguistics	3	6	LING 131 Introduction to Linguistics (1394) (C- and above) OR LING 272 Language and the Mind (1847) (C- and above) OR LING 273 Survey of Research Methods in Linguistics (2158) (C- and above)			World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST

122	SPA 102	Beginning Spanish II	4	8	SPA 101 Beginning Spanish I (685) (C- and above)			World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
123	SPA 202	Intermediate Spanish II	4	8	SPA 201 Intermediate Spanish I (1475) (C- and above)			World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
124	SPA 320	The Hispanic Short Story	3	6	Subject "WLL" BETWEEN 100 and 199 AND SPA 202 Intermediate Spanish II (1842) (C- and above)			3 year UG SEng Civil Engineering, SHSS, SST		
125	WLL 101	Introduction to Critical Issues in the Humanities and Social Sciences	3	6						
126	WLL 110	Introduction to Literary Studies	3	6				1 year UG SENG, 1 year UG SHSS, 1 year UG SST	SHSS	3 year UG SEng Civil Engineering, SST
127	WLL 121	Introduction to Cultural Studies	3	6				1 year UG SENG, 1 year UG SHSS, 1 year UG SST	SHSS	3 year UG SEng Civil Engineering, SST
128	WLL 211	World Literature II: from the 18th to the 20th century	3	6				World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
129	WLL 240	Introduction to the Novel	3	6				World Languages, Literature and Culture	SHSS	3 year UG SEng Civil Engineering, SST
130	WLL 313	Dante's Inferno	3	6	Subject "WLL" BETWEEN 100 and 499 OR Subject "HST" BETWEEN 100 and 499			3 year UG SEng Civil Engineering, SHSS, SST		
131	WLL 399	Independent Study	3	6				Through Add form only		
132	WLL 499	Languages, Linguistics, and Literatures Capstone II	3	6	WLL 498 Languages, Linguistics, and Literatures Capstone I (3048) (C- and above)			Through Add form only		
Mathematics										
133	MATH 161	Calculus I	4	8				Biological Sciences, Chemistry	SST	SHSS
134	MATH 162	Calculus II	4	8	MATH 161 Calculus I (118) (C and above)			1 year UG SST	SST	SHSS
135	MATH 251	Discrete Mathematics	3	6	MATH 161 Calculus I (118) (C and above)			Computer Science, Mathematics	SST	SHSS

136	MATH 263	Calculus III	4	8	MATH 162 Calculus II (170) (C and above)			2 year UG SST Undeclared, Mathematics	SST	SHSS	
137	MATH 273	Linear Algebra with Applications	4	8	MATH 161 Calculus I (118) (C and above)	MATH 162 Calculus II (170) (C and above)		Mathematics	SST	SHSS	
138	MATH 274	Introduction to Differential Equations	3	6	MATH 162 Calculus II (170) (C and above)			2 year UG SST Undeclared, Mathematics	SST	SHSS	
139	MATH 310	Applied Statistical Methods	3	6	MATH 161 Calculus I (118) (C and above)		MATH 321 Probability (482) (C and above)	Mathematics	SST	SHSS	
140	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)	Mathematics	SST	SHSS	
141	MATH 322	Mathematical Statistics	3	6	MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above)			Mathematics	SST	SHSS	
142	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	SST	SHSS	
143	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	SST	SHSS	
144	MATH 407	Graph Theory	3	6	(MATH 301 Introduction to Number Theory (613) (C and above) OR MATH 251 Discrete Mathematics (85) (C and above)) AND MATH 273 Linear Algebra with Applications (84) (C and above)			Mathematics	SST	SHSS	
145	MATH 412	Nonlinear Optimization	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 263 Calculus III (81) (C and above)			Mathematics	SST	SHSS	

146	MATH 417	Cryptography	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND (MATH 251 Discrete Mathematics (85) (C and above) OR MATH 301 Introduction to Number Theory (613) (C and above) OR MATH 355 Introduction to Proofs (86) (C and above))			Mathematics	SST	SHSS	
147	MATH 423	Actuarial Mathematics II	3	6	MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above)			Mathematics	SST	SHSS	
148	MATH 460	Topology	3	6	MATH 361 Real Analysis I (483) (C and above)			Mathematics	SST	SHSS	
149	MATH 461	Real Analysis II	3	6	MATH 361 Real Analysis I (483) (C and above)			Mathematics	SST	SHSS	
150	MATH 477	Applied Finite Element Methods	3	6	MATH 351 Numerical Methods with Applications (1166) (C and above)			Mathematics	SST	SHSS	
151	MATH 480	Complex Analysis	3	6	MATH 263 Calculus III (81) (C and above)			Mathematics	SST	SHSS	
152	MATH 482	Fourier Analysis	3	6	MATH 263 Calculus III (81) (C and above) AND MATH 274 Introduction to Differential Equations (484) (C and above)			Mathematics	SST	SHSS	
153	MATH 490	Special Topics in Mathematics I	3	6				Mathematics	SST	SHSS	
154	MATH 499	Capstone Project	3	6				Through Add form only			
Physics											
155	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		SEng, SHSS	
156	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)	SST		SEng, SHSS	
157	PHYS 202	Introductory Astrophysics	3	6	PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above)			SST		SEng, SHSS	

158	PHYS 222	Classical Mechanics II	3	6	PHYS 221 Classical Mechanics I (652) (C- and above)	MATH 274 Introduction to Differential Equations (484) (D and above)		Physics	SST		
159	PHYS 270	Computational Physics with Laboratory	3	6	(CSCI 150 Fundamentals of Programming (1501) (C- and above) OR CSCI 151 Programming for Scientists and Engineers (192) (C- and above)) AND MATH 263 Calculus III (81) (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))	MATH 273 Linear Algebra with Applications (84) (D and above)		Physics	SST		
160	PHYS 280	Thermodynamics and Statistical Physics	3	6	MATH 263 Calculus III (81) (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))			Physics	SST		
161	PHYS 362	Classical Electrodynamics II	3	6	PHYS 361 Classical Electrodynamics I (651) (C- and above)			Physics	SST		
162	PHYS 370	Optics with Laboratory	4	8	PHYS 361 Classical Electrodynamics I (651) (C- and above)			Physics	SST		
163	PHYS 395	Research Methods	3	6				Physics	SST		
164	PHYS 451	Quantum Mechanics I	3	6	PHYS 221 Classical Mechanics I (652) (C- and above) AND PHYS 361 Classical Electrodynamics I (651) (C- and above)			Physics	SST		
165	PHYS 483	Statistical Mechanics	3	6	PHYS 280 Thermodynamics and Statistical Physics (1179) (C- and above)			Physics	SST		
166	PHYS 491	Directed Study of Advanced Physics Topics	3	6				Through Add form only			
167	PHYS 499	Honors Thesis	3	6				Through Add form only			

Political Science and International Relations

168	PLS 101	Introduction to Political Science	3	6				3 year UG SEng Civil Engineering, SST	Anthropology, Economics, History, Sociology, Undeclared, World Languages, Literature and Culture	
169	PLS 120	Introduction to Political Theory	3	6				1 year UG SHSS	4 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST
170	PLS 140	Introduction to Comparative Politics	3	6				4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST
171	PLS 210	Political Science Research Methods	3	6				4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST
172	PLS 211	Quantitative Methods	3	6			ECON 211 Economic Statistics (2280) (C- and above)	4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST
173	PLS 325	Ancient Political Theory	3	6	PLS 120 Introduction to Political Theory (512) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST
174	PLS 330	Politics and Governance of Eurasia	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST
175	PLS 331	Nationalism and Multi-Ethnic Governance	3	6	PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 140 Introduction to Comparative Politics (223) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST
176	PLS 351	International Political Economy	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)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST
177	PLS 352	International Relations Theory	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST

178	PLS 354	Introduction to International Law	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
179	PLS 355	European Union: Institutions and Policies	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
180	PLS 361	Memory Politics in East Asia	3	6				3 year UG SEng Civil Engineering, SHSS, SST			
181	PLS 365	Civil-Military Relations	3	6	PLS 211 Quantitative Methods (221) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations, Sociology	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
182	PLS 391	Intermediate Special Topics in Comparative Politics	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
183	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)			Through Add form only			
184	PLS 431	Politics and Governance of the Russian Federation	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
185	PLS 447	Comparative Political Parties	3	6	PLS 140 Introduction to Comparative Politics (223) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
186	PLS 455	The Politics of Arms 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)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
187	PLS 457	International Security and Conflict	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)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	

188	PLS 458	International Organization	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			4 year UG SHSS Political Sciences and International Relations	3 year UG SHSS Political Sciences and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
189	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											
190	SSH 300	School of Sciences and Humanities Internship	3	6				Through Add form only			
191	SSH 301	School of Sciences and Humanities Internship: Second Experience	3	6							
Sociology and Anthropology											
192	ANT 110	Introduction to Sociocultural Anthropology	3	6				1 year UG SHSS, Anthropology, Sociology	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
193	ANT 140	World Prehistory	3	6				1 year UG SHSS, Anthropology, Sociology	2 year UG SHSS, 4 year UG SST	3 year UG SEng Civil Engineering, SHSS, SST	
194	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, Sociology	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
195	ANT 286	Nomads: Around the world and through time	3	6				Anthropology, Sociology	2 year UG SHSS, 3 year UG SHSS, 3 year UG SST, 4 year UG SST	3 year UG SEng Civil Engineering, SHSS, SST	
196	ANT 306	Anthropology of Performance	3	6				3 year UG SHSS, 4 year UG SHSS, Anthropology	1 year UG SHSS, 2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
197	ANT 314	Politics of Identity in Eurasia	3	6	Subject "HST" BETWEEN 100 and 499 OR Subject "SOC" BETWEEN 100 and 499 OR Subject "ANT" BETWEEN 100 and 499 OR Subject "PLS" BETWEEN 100 and 499 OR Subject "SOC" BETWEEN 100 and 499 OR Subject "ANT" BETWEEN 100 and 499			Anthropology, Political Science and International Relations	2 year UG SHSS, 3 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	

198	ANT 361	Human Evolution: Bones, Stones and Genomes	3	6				3 year UG SHSS, 4 year UG SHSS, Anthropology	1 year UG SHSS, 2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
199	ANT 399	Special Topics in Anthropology	3	6							
200	ANT 400	Research Assistance in Anthropology	1	2				Through Add form only			
201	ANT 499	Capstone Seminar II	3	6	ANT 498 Capstone Seminar I (2965) (C- and above)			3 year UG SEng Civil Engineering, SHSS, SST			
202	SOC 101	Introduction to Sociology	3	6				1 year UG SHSS	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
203	SOC 201	Social Science Research Methods	3	6				Anthropology, Sociology	3 year UG SEng Civil Engineering, SHSS, SST		
204	SOC 215	Sociology of Race and Ethnicity	3	6				Anthropology, Sociology	2 year UG SHSS, 3 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
205	SOC 220	Science, Technology, and Society	3	6				Anthropology, Sociology	2 year UG SHSS, 3 year UG SHSS, 3 year UG SST, 4 year UG SST	3 year UG SEng Civil Engineering, SHSS, SST	
206	SOC 223	Social Movements: How People Make Change	3	6				Anthropology, Sociology	2 year UG SHSS, 3 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
207	SOC 302	Decolonizing Social Theory: Can Women and Non-Europeans Think?	3	6				Anthropology, Sociology	2 year UG SHSS, 3 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
208	SOC 317	Economy and Society	3	6	SOC 101 Introduction to Sociology (508) (C- and above) OR Subject "SOC" BETWEEN 200 and 299 OR Subject "SOC" BETWEEN 200 and 299 OR ECON 102 Introduction to Macroeconomics (503) (C- and above) OR PLS 120 Introduction to Political Theory (512) (C- and above) OR PLS 150 Introduction to International Relations (511) (C- and above)			2 year UG SHSS, Sociology	3 year UG SHSS, Economics	3 year UG SEng Civil Engineering, SHSS, SST	
209	SOC 400	Research Assistance in Sociology	1	2				Through Add form only			

210	SOC 404	Research Assistance in Sociology	3	6				Through Add form only		
211	SOC 499	Capstone Seminar II	3	6	SOC 498 Capstone Seminar Part I (3043) (C- and above)			3 year UG SEng Civil Engineering, SHSS, SST		
Sociology and Anthropology, Sociology and Anthropology										
212	ANT 216/SOC 216	Marriage and Kinship	3	6				1 year UG SHSS, 2 year UG SHSS, Anthropology	4 year UG SST	3 year UG SEng Civil Engineering, SHSS, SST
213	SOC 212/ANT 285	Food and Society	3	6				Anthropology, Sociology	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST
SEDS										
Chemical and Materials Engineering										
214	CHME 421	Tissue Engineering	3	6						
215	ECHE 210	Foundations of Unit Operations	3	6						
216	ECHE 221	Engineering Fluid Mechanics	3	6						
217	ECHE 270	Transport Phenomena-I	3	6						
218	ECHE 323	Computational methods in Chemical Engineering-I	3	6	ECHE 333 Separation Processes-I (1271) (D and above)	ECHE 481 Chemical Reaction Engineering (1985) (D and above)				
219	ECHE 383	Separation Processes II	3	6	ECHE 126 Introduction to Chemical Engineering (33) (D and above) AND ECHE 225 Heat and Mass Transfer Operations (541) (D and above)					
220	ECHE 386	Chemical Plant Design and Optimization	3	6						
221	ECHE 387	Chemical Reaction Engineering 2	3	6						
222	ECHE 388	Process Dynamics and Control	3	6						
223	ECHE 420	Polymer Processing and Rheology	3	6						
224	ECHE 478	Electrochemical Engineering and Corrosion Protection	3	6	ECHE 222 Chemistry I (731) (D and above)					
225	ECHE 479	Capstone Project II	9	18	ECHE 418 Capstone project 1 (1278) (D and above)					

226	ECHE 483	Chemistry II	3	6	ECHE 222 Chemistry I (731) (D and above)						
Civil and Environmental Engineering											
227	ECE 210	Soil Mechanics	3	6							
228	ECE 218	Environmental Chemistry	3	6							
229	ECE 219	Hydraulics	3	6							
230	ECE 306	Geotechnical Design	3	6	ECE 210 Soil Mechanics (862) (D and above)						
231	ECE 319	Structural Design - Steel	3	6							
232	ECE 320	Engineering Hydrology	3	6							
233	ECE 405	Environmental Engineering	3	6	ECE 473 Environmental Systems (1953) (D and above) OR ECE 218 Environmental Chemistry (3296) (D and above)						
234	ECE 420	Modern Information Technology in Construction	3	6							
235	ECE 421	Behaviour and Design of Structural System	3	6	(ECE 318 Structural Design - Concrete (3709) (D and above) OR ECE 314 Structural Engineering Applications I (1042) (D and above)) AND (ECE 319 Structural Design - Steel (4038) (D and above) OR ECE 315 Structural Engineering Applications II (1041) (D and above))						
236	ECE 422	Prestressed Concrete Design	3	6							
237	ECE 423	Structure and Properties of Concrete Materials	3	6							
238	ECE 472	Water and Wastewater Treatment Processes	3	6	ECE 218 Environmental Chemistry (3296) (D and above)						
239	ECE 478	Capstone Project II	9	18	ECE 401 Capstone Project 1 (1270) (D and above)						
240	ECE 479	Structural Analysis II	3	6	ECE 217 Structural Analysis I (3156) (D and above)						
Computer Science											

241	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	
242	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)		1 year UG SST	SST	SHSS	
243	CSCI 235	Programming Languages	4	8	CSCI 152 Performance and Data Structures (489) (C- and above)		3 year UG SST Computer Science	Computer Science	SEng, SHSS, SST	
244	CSCI 245	System Analysis and Design	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)		Computer Science	SST	SEng, SHSS	
245	CSCI 330	Mobile Computing	3	6	CSCI 332 Operating Systems (490) (C- and above)		Computer Science	SST	SEng, SHSS	
246	CSCI 332	Operating Systems	3	6	CSCI 231 Computer Systems and Organization (194) (C- and above)		2 year UG SST Computer Science	Computer Science	SEng, SHSS, SST	
247	CSCI 333	Computer Networks	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)		2 year UG SST Computer Science	Computer Science	SEng, SHSS, SST	
248	CSCI 336	Ubiquity and Sensing	3	6	CSCI 333 Computer Networks (1145) (C- and above)		Computer Science	SST	SEng, SHSS	
249	CSCI 361	Software Engineering	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)		3 year UG SST Computer Science	Computer Science	SEng, SHSS, SST	
250	CSCI 398	Directed Study	3	6			Through Add form only			
251	CSCI 399	Internship II	3	6			Through Add form only			
252	CSCI 408	Senior Project I	3	6			4 year UG SST Computer Science			
253	CSCI 409	Senior Project II	3	6	CSCI 408 Senior Project I (1481) (C- and above)		Through Add form only			
254	CSCI 462	Open Source Software	3	6	CSCI 361 Software Engineering (640) (C- and above)		Computer Science	SST	SEng, SHSS	

Electrical and Computer Engineering

255	EEE 210	Software Engineering	3	6	BENG 146 Programming for Engineers (2234) (D and above)						
256	EEE 211	Computer Systems Architecture	3	6	ECHE 126 Introduction to Chemical Engineering (33) (D and above)						
257	EEE 239	Communication systems	3	6							
258	EEE 340	Data Communications	3	6							
259	EEE 341	Digital Electronic System Design	3	6							
260	EEE 343	Embedded Microcontrollers	3	6							
261	EEE 379	Power Systems Analysis	3	6							
262	EEE 381	Electrical Machines and Drives	3	6							
263	EEE 411	Special Topics in Signal Processing	3	6							
264	EEE 480	Capstone Project II	9	18							
265	EEE 484	Electric Power Generation	3	6							
266	EEE 485	Power System Operation and Control	3	6	EEE 379 Power Systems Analysis (1956) (D and above) OR EEE 452 Power Systems Protection (2652) (D and above)						
267	EEE 486	Photonics for Engineering	3	6	EEE 342 Electromagnetics (533) (D and above)						
268	EEE 487	Intelligent Algorithms for Power Systems	3	6							
269	EEE 488	Numerical Optimization Techniques and Computer Applications	3	6							
270	EEE 489	Analog Circuit Design	3	6							

Mechanical and Aerospace Engineering

271	EME 275	Fluid Mechanics I	3	6							
272	EME 300	Research Project	3	6							
273	EME 352	Computational Fluid Dynamics	3	6							
274	EME 357	Fluid Mechanics II	3	6							
275	EME 377	Mechanical Systems Design	3	6	EME 361 Machine Design (1051) (D and above)						
276	EME 414	Fire Engineering	3	6	BENG 226 Engineering Thermodynamics (1553) (D and above)						

277	EME 415	Flight Mechanics	3	6							
278	EME 464	Materials and Manufacturing I	3	6							
279	EME 476	Materials and Manufacturing II	3	6							
280	EME 477	Capstone Project II	9	18							
281	EME 479	Particulate Technology	3	6							
282	EME 480	Industrial Automation	3	6							
283	EME 488	Structural Mechanics	3	6							
Robotics and Mechatronics											
284	ROBT 202	System Dynamics and Modeling	3	6	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	SST	SHSS	
285	ROBT 204	Electrical and Electronic Circuits II with Lab	4	8	ROBT 203 Electrical and Electronic Circuits I with Lab (62) (C- and above)			Physics, Robotics and Mechatronics	SST	SHSS	
286	ROBT 206	Microcontrollers with Lab	4	8	CSCI 150 Fundamentals of Programming (1501) (C and above) OR CSCI 151 Programming for Scientists and Engineers (192) (C and above) OR ENG 101 Programming for Engineers (4517) (C and above)			Computer Science, Robotics and Mechatronics	SST	SHSS	
287	ROBT 302	Mechanical Design II with Machining Laboratory	4	8	ROBT 301 Mechanical Design I with CAD Laboratory (622) (C- and above)			Robotics and Mechatronics	SST	SHSS	
288	ROBT 304	Electromechanical Systems with lab	4	8	ROBT 204 Electrical and Electronic Circuits II with Lab (491) (C- and above)			Robotics and Mechatronics	SST	SHSS	
289	ROBT 308	Industrial Automation	3	6				Computer Science, Robotics and Mechatronics	SST	SHSS	
290	ROBT 310	Image Processing	3	6	MATH 162 Calculus II (170) (C- and above) AND MATH 273 Linear Algebra with Applications (84) (C- and above)			Computer Science, Robotics and Mechatronics	SST	SHSS	

291	ROBT 402	Robotic/Mechatronic System Design	3	6	ROBT 204 Electrical and Electronic Circuits II with Lab (491) (C- and above) AND ROBT 206 Microcontrollers with Lab (476) (C- and above)			Robotics and Mechatronics			
292	ROBT 414	Human-Robot Interaction	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science, Robotics and Mechatronics	SST	SHSS	
293	ROBT 491	Graduation Project	3	6				Robotics and Mechatronics			
School of Engineering											
294	BENG 114	Introduction to Electrical Systems	3	6							
295	BENG 147	Mechanics of Fluids and Thermodynamics	3	6	BENG 124 Engineering Mathematics I (101) (D and above)						
296	BENG 148	Engineering Practice	3	6							
297	BENG 201	Engineering Economy	3	6							
298	BENG 219	Control Systems	3	6							
299	BENG 225	Engineering Mathematics II	3	6							
300	BENG 226	Engineering Thermodynamics	3	6							
301	BENG 304	Internship	2	4							