

**Course Requirements and Registration Priorities  
(Undergraduate), Fall 2016**

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
<b>SST</b>											
<b>Mathematics</b>											
1	MATH 355	Introduction to Proofs	3	6	MATH 162 Calculus II (170) (C and above) AND MATH 273 Linear Algebra with Applications (84) (C and above)			Mathematics	SHSS, SST		
<b>Other</b>											
<b>Other</b>											
2	T- 17191	Artists, Patrons and Academies in Early Modern Europe	3	6							
3	T- 17266	Literature and Culture of English Speaking Countries: The 19th Century I	3	6							
4	T- 17319	Techniques and Languages in English Narrative	3	6							
5	T- 205512	Narrativa Espanola actual: novela y cuento	3	6							
6	T- 205514	El espanol y su cultura	3	6							
7	T-HIST 1228	Survey of US History Since 1865	3	6							
8	T-PLSI 3250	Electoral Behavior/Political Parties	3	6							
9	T-PLSI 3320	Government and Politics: China	3	6							
10	T-PPA 2008	American Government and Public Administration	3	6							
11	T-SCI 1600	Physics for Liberal Studies	3	6							
<b>SSH</b>											
<b>Biological Science</b>											
12	BIOL 101	Biology for non-Science majors	3	6			BIOL 110 Modern Biology I (1070) (C- and above)				
13	BIOL 110	Modern Biology I	3	6				1 year UG SST	SST	SHSS	

14	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	
15	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	
16	BIOL 320	Developmental Biology with Lab	4	8	((BIOL 110 Modern Biology I (107) (C- and above) AND BIOL 110 Modern Biology I Lab (1444) (C- and above)) OR PREM 110 Pre-med Biology I with lab (1071) (C- and above) OR BIOL 110 Modern Biology I (1070) (C- and above) AND (BIOL 120 Modern Biology II (1195) (C- and above) OR (BIOL 120 Modern Biology II (177) (C- and above) AND BIOL 120 Modern Biology II Lab (1445) (C- and above))) AND ((BIOL 220 Molecular Biology of Cell (477) (C- and above) AND BIOL 220Arc Molecular Biology of Cell Lab (478) (C- and above)) OR BIOL 301 Molecular Biology of Cell with Lab (1197) (C- and above) OR BIOL 231 Human Anatomy and Physiology II (479) (C- and above))			Biological Sciences	SST	SHSS	
17	BIOL 340	Introduction to Bioinformatics with Lab	4	8	BIOL 120 Modern Biology II (1195) (C and above) AND MATH 310 Applied Statistical Methods (82) (C and above)			Biological Sciences	SST	SHSS	
18	BIOL 352	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)			Biological Sciences	SST	SHSS	
19	BIOL 355	Critical Research Reasoning	3	6	BIOL 120 Modern Biology II (177) (C and above) OR BIOL 120 Modern Biology II (177) (C and above)			Biological Sciences	SST	SHSS	
20	BIOL 399	Biology Internship	3	6				Through Add form only			
21	BIOL 410	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)			Biological Sciences	SST	SHSS	

22	BIOL 455	Biotechnology	3	6	BIOL 301 Molecular Biology of Cell with Lab (1197) (C- and above)			Biological Sciences	SST	SHSS	
23	BIOL 470	Advanced Cell Biology	3	6	BIOL 301 Molecular Biology of Cell with Lab (1197) (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	
24	BIOL 490	Graduation Project 1	4	8				Through Add form only			
<b>Chemistry</b>											
25	CHEM 090	Chemistry for Non-Science majors	3	6							
26	CHEM 091	Survey of Physical Science	3	6							
27	CHEM 101	General Chemistry I	3	6				1 year UG SST	SST	SHSS	
28	CHEM 101L	General Chemistry I lab	1	2		CHEM 101 General Chemistry I (113) (C and above)		1 year UG SST	SST	SHSS	
29	CHEM 102	General Chemistry II	3	6	CHEM 101 General Chemistry I (113) (C and above)			Chemistry	SST	SHSS	
30	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	SST	SHSS	
31	CHEM 189c	Independent Study	3	6							
32	CHEM 211	Organic Chemistry I	3	6	CHEM 102 General Chemistry II (232) (C and above)			Chemistry	SST	SHSS	
33	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	SST	SHSS	
34	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	SST	SHSS	

35	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	SST	SHSS	
36	CHEM 220	Quantitative Chemical Analysis	3	6	CHEM 102 General Chemistry II (232) (C and above)			Chemistry	SST	SHSS	
37	CHEM 250	Descriptive Inorganic Chemistry	3	6	CHEM 102 General Chemistry II (232) (C and above)			Chemistry	SST	SHSS	
38	CHEM 331	Physical Chemistry I	3	6	CHEM 220 Quantitative Chemical Analysis (555) (C and above) AND PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C and above)			Chemistry	SST	SHSS	
39	CHEM 331L	Physical Chemistry Lab	1	2	CHEM 101L General Chemistry I lab (179) (C and above)	CHEM 331 Physical Chemistry I (634) (C and above)		Chemistry	SST	SHSS	
40	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	SST	SHSS	
41	CHEM 410	Structural Spectroscopy	4	8	CHEM 212 Organic Chemistry II (443) (C and above)			Chemistry	SST	SHSS	
42	CHEM 431	Computational Chemistry	3	6	CHEM 332 Physical Chemistry II (1056) (C and above) AND (CSCI 111 Web Programming & 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))			SST			
43	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	SST	SHSS	
<b>Communication and Composition</b>											
44	COMM 220	Media History	3	6							

45	COMM 270	Introduction to Public Relations	3	6						
46	SHSS 301	SHSS Internship Second Experience	3	6				Through Add form only		
47	WCS 150	Rhetoric and Composition	3	6				1 year UG SHSS, 2 year UG SHSS	SST	3 year UG SEng Civil Engineering, SHSS
48	WCS 230	Say What you Mean: Clarity, Precision, and Style in Academic Writing	3	6	WCS 150 Rhetoric and Composition (2183) (C- and above)					
49	WCS 250	Advanced Rhetoric and Composition	3	6	WCS 150 Rhetoric and Composition (2183) (C- and above)			SHSS	SST	3 year UG SEng Civil Engineering
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 () ( 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		
<b>Economics</b>										
51	ECON 101	Introduction to Microeconomics	3	6				1 year UG SHSS	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST
52	ECON 102	Introduction to Macroeconomics	3	6				1 year UG SHSS	2 year UG SHSS	3 year UG SEng Civil Engineering, 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 Economics	3 year UG SEng Civil Engineering, 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))			4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST

55	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)			Through Add form only			
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)))			3 year UG SHSS Economics, 4 year UG SHSS Economics	2 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
57	ECON 305	Advanced Microeconomics	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)	ECON 211 Economic Statistics (2280) (D and above)	ECON 398 General Special Topics in Economics (2184) (C- and above)	4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
58	ECON 320	Money and Banking	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
59	ECON 321	Economic Growth	3	6	ECON 202 Intermediate Macroeconomics (207) (C- and above)			4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
60	ECON 327	Energy Economics	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
61	ECON 329	International Finance	3	6	ECON 202 Intermediate Macroeconomics (207) (C- and above)						
62	ECON 341	Economic Simulation Modeling	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
63	ECON 345	The Economics of Family	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
64	ECON 399	Independent Study in Economics	3	6							
65	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 Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	

66	ECON 415	Industrial Organization	3	6	ECON 301 Econometrics I (664) (C- and above)			4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
67	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 Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
68	ECON 443	Topics in Macroeconomic Theory	3	6	ECON 202 Intermediate Macroeconomics (207) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)			4 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST		
69	ECON 445	Public Finance	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)			4 year UG SHSS Economics	3 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST	
70	ECON 451	Topics in Microeconomics	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			4 year UG SHSS Economics	3 year UG SEng Civil Engineering, SHSS, SST		
<b>History, Philosophy and Religious Studies</b>											
71	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	
72	HST 123	Introduction to the History of Science and Technology	3	6				1 year UG SHSS, History	1 year UG SST	3 year UG SEng Civil Engineering, SHSS, SST	
73	HST 124	Introduction to the History of Medicine	3	6				1 year UG SHSS, History	1 year UG SST	3 year UG SEng Civil Engineering, SHSS, SST	
74	HST 182	East Asian History II (from 1500)	3	6				1 year UG SHSS, History	3 year UG SEng Civil Engineering, SHSS, SST		
75	HST 199	Freshman Seminar	3	6				History	3 year UG SEng Civil Engineering, SHSS, SST		
76	HST 212	Coins, cotton, and cocoons: Global trade and Eurasian materiality (ca. 1500-1850)	3	6	Subject "HST" BETWEEN 100 and 199			History	3 year UG SEng Civil Engineering, SHSS, SST		

77	HST 232	Russian History from Rurik to Catherine the Great	3	6				History	3 year UG SEng Civil Engineering, SHSS, SST		
78	HST 313	From Columbus to AIDS: Sex and Disease in the Modern World	3	6				History	3 year UG SEng Civil Engineering, SHSS, SST		
79	HST 322	Technology and Modernity	3	6				3 year UG SHSS, History	4 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
80	HST 498	Directed Reading	3	6				Through Add form only			
81	PHIL 110	The Good Life in Practice	3	6				1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST		
82	PHIL 240	Formal Logic	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
83	PHIL 320	Truth, Knowledge and Belief	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
84	PHIL 360	Philosophy of Artificial Intelligence	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
85	REL 410	Buddhism in Central Asia	3	6	Subject "REL" BETWEEN 100 and 199			History	3 year UG SEng Civil Engineering, SHSS, SST		
<b>History, Philosophy and Religious Studies, History, Philosophy and Religious Studies</b>											
86	HST 341/REL 341	Eastern Christianity	3	6			REL 240 Christian Religious Traditions (1348) (C- and above)	History	3 year UG SEng Civil Engineering, SHSS, SST		
87	REL 320/HST 320	The Crusades	3	6	Subject "HST" BETWEEN 100 and 199			History	3 year UG SEng Civil Engineering, SHSS, SST		
<b>History, Philosophy and Religious Studies, Languages, Literature and Linguistics</b>											
88	WLL 102 /PHIL 102	Language, Experience, Culture	3	6				1 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST	



History, Philosophy and Religious Studies, Political Science and International Relations										
89	PLS 328/REL 328	Confucianism and the Development of Chinese Politics	3	6				Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
History, Philosophy and Religious Studies, Sociology and Anthropology										
90	ANT 313/REL 332	Islam and Politics in Eurasia	3	6				3 year UG SHSS, 4 year UG SHSS, Anthropology, Sociology	SHSS	3 year UG SEng Civil Engineering, SST
Kazakh Language and Turkic Studies										
91	KAZ 101	Basic Kazakh I	3	6	KLL "Basic"					
92	KAZ 111	Intermediate Kazakh I	3	6	KLL "Intermediate"					
93	KAZ 114	Intermediate Kazakh II	3	6	KLL ""					
94	KAZ 121	Upper-Intermediate Kazakh	3	6	KLL "Upper-Intermediate"					
95	KAZ 150	Basic Kazakh	3	6	KLL "Basic"					
96	KAZ 211	Academic Speaking in Kazakh	3	6	KAZ 201 Academic Kazakh I (4561) (C- and above) OR KLL "Upper-Intermediate" OR KLL "Advanced"					
97	KAZ 212	Academic Writing in Kazakh	3	6	KLL "Advanced" OR KLL "Upper- Intermediate"					
98	KAZ 263	Business Etiquette	3	6	KLL "Upper-Intermediate" OR KLL "Advanced"					
99	KAZ 313	Kazakh for Business	3	6	KLL "Advanced" OR KLL "Upper- Intermediate"					
100	KAZ 314	Speech Culture in Business	3	6	KLL "Upper-Intermediate" OR KLL "Advanced"					
101	KAZ 351	Kazakh Short Stories	3	6	KLL "Advanced" OR KLL "Upper- Intermediate"					
102	KAZ 356	Kazakh Music History	3	6	KLL "Advanced"					
103	KAZ 357	Literature of Alash	3	6	KLL "Advanced" OR KLL "Upper- Intermediate"					
104	KAZ 358	Technique of Translation	3	6	KLL "Upper-Intermediate" OR KLL "Advanced"					
105	KAZ 362	Creative Writing in Kazakh Language	3	6	KLL "Upper-Intermediate" OR KLL "Advanced"					
106	KAZ 363	Language and Globalization	3	6	KLL "Upper-Intermediate" OR KLL "Advanced"					
107	KAZ 364	Kazakh for Civil Service	3	6	KLL "Advanced" OR KLL "Upper- Intermediate" OR KAZ 314 Speech Culture in Business (1836) (C- and above)					
108	KAZ 365	Abai's World	3	6	KLL "Advanced"					
109	KAZ 366	Kazakh Language for Engineers	3	6	KLL "Advanced" OR KLL "Upper- Intermediate"					

110	KAZ 373	Kazakh Terminology	3	6	KLL "Advanced" OR KAZ 202A Kazakh Literature 2/K(C) (228) (C- and above) OR KAZ 211 Academic Speaking in Kazakh (702) (C- and above) OR KAZ 212 Academic Writing in Kazakh (703) (C- and above)					
111	KAZ 374	Kazakh Diplomacy	3	6	KAZ 202A Kazakh Literature 2/K(C) (228) (C- and above) OR KAZ 211 Academic Speaking in Kazakh (702) (C- and above) OR KAZ 212 Academic Writing in Kazakh (703) (C- and above) OR KLL "Advanced"					
112	KAZ 375	Cultural Studies and Kazakh Culture	3	6	KLL "Advanced" OR KAZ 202A Kazakh Literature 2/K(C) (228) (C- and above) OR KAZ 211 Academic Speaking in Kazakh (702) (C- and above) OR KAZ 212 Academic Writing in Kazakh (703) (C- and above)					
<b>Kazakh Language and Turkic Studies, Languages, Literature and Linguistics</b>										
113	LING 280/TUR 280	Introduction to Turkic Historical and Comparative Linguistics	3	6				SHSS	3 year UG SEng Civil Engineering, SST	
<b>Languages, Literature and Linguistics</b>										
114	CHN 101	Beginning Mandarin I	4	8				1 year UG SHSS, World Languages, Literature and Culture	1 year UG SST, 2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST
115	CHN 102	Beginning Mandarin II	4	8	CHN 101 Beginning Mandarin I (1384) (B- and above)			2 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST
116	FRE 101	Beginning French I	4	8				1 year UG SHSS, World Languages, Literature and Culture	1 year UG SST, 2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST
117	FRE 201	Intermediate French I	4	8	FRE 102 Beginning French II (454) (C- and above)			SHSS	3 year UG SEng Civil Engineering, SST	
118	GER 101	Beginning German	4	8				1 year UG SHSS, World Languages, Literature and Culture	1 year UG SST, 2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST

119	LING 131	Introduction to Linguistics	3	6				1 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST	
120	LING 273	Survey of Research Methods in Linguistics	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
121	LING 374	Language Contact in Central Asia	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
122	SPA 101	Beginning Spanish I	4	8				1 year UG SHSS, World Languages, Literature and Culture	1 year UG SST, 2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
123	SPA 201	Intermediate Spanish I	4	8	SPA 102 Beginning Spanish II (1128) (C- and above)			SHSS	SEng, SST		
124	WLL 101	Introduction to Critical Issues in the Humanities and Social Sciences	3	6				SHSS	SEng, SST		
125	WLL 110	Introduction to Literary Studies	3	6				1 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST	
126	WLL 111	Introduction to Theatre	3	6				1 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST	
127	WLL 155	Introduction to the Comic Book	3	6				1 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST	
128	WLL 201	World Literature I	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
129	WLL 247	Survey of East Asian Literature	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
130	WLL 321	Creative Writing/Theatre - Intermediate/Advanced	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
131	WLL 333	Literary Modernism: Writing the Futurity and Anarchy of Contemporary History	3	6	Subject "WLL" BETWEEN 200 and 299			SHSS	3 year UG SEng Civil Engineering, SST		

132	WLL 498	Languages, Linguistics, and Literatures Capstone I	3	6				Through Add form only			
<b>Languages, Literature and Linguistics, Languages, Literature and Linguistics</b>											
133	SPA 258/WLL 258	Literature and The Spanish Civil War	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
134	SPA 260/WLL 260	The Spanish American Short Story	3	6	Subject "WLL" BETWEEN 100 and 199			SHSS	3 year UG SEng Civil Engineering, SST		
135	SPA 281/WLL 281	Survey of 20th Century Spanish Literature	3	6				SHSS	3 year UG SEng Civil Engineering, SST		
136	SPA 351/WLL 351	Literature and Film of the Postcolonial World	3	6	Subject "WLL" BETWEEN 200 and 299			SHSS	3 year UG SEng Civil Engineering, SST		
<b>Languages, Literature and Linguistics, Sociology and Anthropology</b>											
137	ANT 277/WLL 271	Language and Society	3	6				1 year UG SHSS, 2 year UG SHSS, Anthropology	SHSS	3 year UG SEng Civil Engineering, SST	
<b>Mathematics</b>											
138	MATH 109	Mathematical Discovery	3	6			MATH 161 Calculus I (118) (C- and above)	SHSS	SST		
139	MATH 161	Calculus I	4	8				1 year UG SST	SST	SHSS	
140	MATH 162	Calculus II	4	8	MATH 161 Calculus I (118) (C and above)			3 year UG SHSS, 4 year UG SHSS, SST	SHSS		
141	MATH 251	Discrete Mathematics	3	6	MATH 162 Calculus II (170) (C and above)			Computer Science, Physics, Robotics and Mechatronics, Undeclared	Mathematics, SHSS		
142	MATH 263	Calculus III	4	8	MATH 162 Calculus II (170) (C and above)			4 year UG SHSS, SST	SHSS		
143	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		
144	MATH 274	Introduction to Differential Equations	3	6	MATH 162 Calculus II (170) (C and above)			4 year UG SHSS, SST	SHSS		

145	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		
146	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		
147	MATH 310	Applied Statistical Methods	3	6	MATH 161 Calculus I (118) (C and above)		MATH 322 Mathematical Statistics (1165) (D 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	Mathematics, SHSS		
148	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		
149	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		
150	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		
151	MATH 399	Internship	3	6							
152	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		

153	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		
154	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		
155	MATH 449	Statistical Programming	3	6	MATH 322 Mathematical Statistics (1165) (C and above)			Mathematics	SHSS, SST		
156	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		
157	MATH 480	Complex Analysis	3	6	MATH 263 Calculus III (81) (C and above)			Mathematics	SHSS, SST		
158	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	SST	SHSS	
<b>Physics</b>											
159	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)	1 year UG SST	SST	SHSS	
160	PHYS 201	Introductory Astronomy I	3	6				Physics	SHSS, SST		
161	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		

162	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		
163	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)		Physics	SHSS, SST		
164	PHYS 411	Advanced Mathematical Physics	3	6	MATH 274 Introduction to Differential Equations (484) (C- and above) AND PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above)			Physics	SST	SHSS	
165	PHYS 452	Quantum Mechanics II	3	6	PHYS 451 Quantum Mechanics I (1415) (C- and above)			Physics	SHSS, SST		
166	PHYS 465	Advanced Experimental Physics	3	6	PHYS 370 Optics with Laboratory (1405) (C- and above)			Physics	SHSS, SST		
167	PHYS 473	Introduction to Solid State Physics	3	6	PHYS 280 Thermodynamics and Statistical Physics (1179) (C- and above) AND PHYS 451 Quantum Mechanics I (1415) (C- and above)			Physics	SHSS, SST		
168	PHYS 491	Directed Study of Advanced Physics Topics	3	6				Through Add form only			
<b>Political Science and International Relations</b>											
169	PLS 101	Introduction to Political Science	3	6				1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST		
170	PLS 120	Introduction to Political Theory	3	6				1 year UG SHSS	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
171	PLS 140	Introduction to Comparative Politics	3	6				1 year UG SHSS	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	

172	PLS 150	Introduction to International Relations	3	6				1 year UG SHSS	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
173	PLS 210	Political Science Research Methods	3	6				Political Science and International Relations	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
174	PLS 211	Quantitative Methods	3	6			ECON 211 Economic Statistics (2280) (C- and above)	Political Science and International Relations	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
175	PLS 315	Political Game Theory	3	6	PLS 211 Quantitative Methods (221) (C- and above) OR ECON 211 Economic Statistics (2280) (C- and above)			Political Science and International Relations	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
176	PLS 325	Ancient Political Theory	3	6	PLS 120 Introduction to Political Theory (512) (C- and above)			Political Science and International Relations	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
177	PLS 340	Politics of East Asia	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			Political Science and International Relations	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
178	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)			Political Science and International Relations	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
179	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	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
180	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	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	
181	PLS 415	Maximum Likelihood Models	3	6	PLS 210 Political Science Research Methods (129) (C- and above) OR PLS 211 Quantitative Methods (221) (C- and above)			Political Science and International Relations	Political Science and International Relations	3 year UG SEng Civil Engineering, SHSS, SST	



182	PLS 432	Comparative Democratization	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 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)			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	
184	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	
185	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)			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 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)			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 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)						
<b>Sociology and Anthropology</b>											
188	ANT 101	Introduction to Sociocultural Anthropology	3	6				1 year UG SHSS, Anthropology	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
189	ANT 140	World Prehistory	3	6				1 year UG SHSS, Anthropology	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
190	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	3 year UG SEng Civil Engineering, SHSS, SST	

191	ANT 180	Being Human: An Introduction to Four Field Anthropology	3	6			ANT 101 Introduction to Sociocultural Anthropology (501) (C- and above) OR ANT 140 World Prehistory (227) (C- and above) OR ANT 160 Introduction to Biological Anthropology (161) (C- and above)	1 year UG SHSS, Anthropology	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
192	ANT 232	Life, Death and Economy: Archaeology of Central Asia	3	6				2 year UG SHSS, Anthropology	1 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
193	ANT 399	Special Topics in Anthropology	3	6				3 year UG SHSS, 4 year UG SHSS, Anthropology, Sociology	SHSS	3 year UG SEng Civil Engineering, SST	
194	ANT 400	Research Assistance in Anthropology	1	2				Through Add form only			
195	SOC 101	Introduction to Sociology	3	6				1 year UG SHSS, 2 year UG SHSS	SHSS	3 year UG SEng Civil Engineering, SST	
196	SOC 115	Global Social Problems	3	6				1 year UG SHSS, Sociology	2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
197	SOC 203	Quantitative Methods in Sociology	3	6				Anthropology, Sociology	SHSS	3 year UG SEng Civil Engineering, SST	
198	SOC 221	International Migration	3	6				Sociology	SHSS	3 year UG SEng Civil Engineering, SST	
199	SOC 227	Economy and Society	3	6				Sociology	Economics	3 year UG SEng Civil Engineering, SHSS, SST	
200	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)	Anthropology, Sociology	3 year UG SHSS, 4 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	

201	SOC 310	Social Inequality	3	6	SOC 101 Introduction to Sociology (508) (C- and above) OR SOC 115 Global Social Problems (1032) (C- and above)			Anthropology, Sociology	3 year UG SHSS, 4 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
202	SOC 314	Organizations and Society	3	6	SOC 101 Introduction to Sociology (508) ( and above) OR SOC 115 Global Social Problems (1032) ( and above)			Anthropology, Sociology	SHSS	3 year UG SEng Civil Engineering, SST	
203	SOC 399	Special Topics in Sociology	3	6				Anthropology, Sociology	3 year UG SHSS, 4 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
204	SOC 400	Research Assistance in Sociology	1	2				Through Add form only			
<b>Sociology and Anthropology, Sociology and Anthropology</b>											
205	ANT 216/SOC 216	Marriage and Kinship	3	6				1 year UG SHSS, 2 year UG SHSS, Anthropology	SHSS	3 year UG SEng Civil Engineering, SST	
206	SOC 212/ANT 285	Food and Society	3	6				Anthropology, Sociology	1 year UG SHSS, 2 year UG SHSS	3 year UG SEng Civil Engineering, SHSS, SST	
<b>SEDS</b>											
<b>Chemical and Materials Engineering</b>											
207	ECHE 126	Introduction to Chemical Engineering	3	6							
208	ECHE 222	Chemistry I	3	6							
209	ECHE 319	Chemical Engineering Thermodynamics	3	6							
210	ECHE 321	Chemistry II	3	6							
211	ECHE 331	Process Control and Optimization	3	6							
212	ECHE 333	Separation Processes-I	3	6	ECHE 319 Chemical Engineering Thermodynamics (1218) (D and above)						
213	ECHE 369	Transport Phenomena-II	3	6							
214	ECHE 418	Capstone project 1	3	6	ECHE 323 Computational methods in Chemical Engineering-I (1272) (D and above)						

215	ECHE 419	Advanced Process Simulation	3	6	ECHE 323 Computational methods in Chemical Engineering-I (1272) (D and above)	ECHE 482 Computational Methods in Chemical Engineering-II (1984) ( and above)					
216	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)						
217	ECHE 484	Multi-Phase Flows	3	6	ECHE 319 Chemical Engineering Thermodynamics (1218) (D and above) AND ECHE 270 Transport Phenomena-I (735) (D and above)						
<b>Civil Engineering</b>											
218	ECE 215	Surveying	3	6							
219	ECE 216	Civil Engineering CAD	3	6							
220	ECE 217	Structural Analysis I	3	6	BENG 117 Engineering Mechanics (740) (D and above)						
221	ECE 300	Hydraulic Systems	3	6							
222	ECE 303	Construction Management and Practice	3	6	BENG 148 Engineering Practice (1073) (D and above)						
223	ECE 307	Engineering Geology and Rock Mechanics	3	6							
224	ECE 314	Structural Engineering Applications I	3	6	ECE 213 Structural Engineering Analysis (863) (D and above) OR ECE 217 Structural Analysis I (3156) (D and above)						
225	ECE 401	Capstone Project 1	3	6							
226	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)						
227	ECE 416	Highway Engineering	3	6	ECE 302 Civil Engineering Materials (1040) (D and above)						
228	ECE 473	Environmental Systems	3	6							
<b>Computer Science</b>											

229	CSCI 151	Programming for Scientists and Engineers	4	8			ROBT 102 Programming for robotics and physics (188) (C- and above) OR CSCI 150 Fundamentals of Programming (1501) (C- and above)	1 year UG SST	SST	SHSS	
230	CSCI 231	Computer Systems and Organization	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science	SST	SHSS	
231	CSCI 262	Software Project Management	3	6	CSCI 152 Performance and Data Structures (489) (C and above)			Computer Science	SST	SHSS	
232	CSCI 281	Human-Computer Interaction	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science	SST	SHSS	
233	CSCI 325	Introduction to Parallel Systems and GPU Programming	3	6	CSCI 332 Operating Systems (490) (C- and above)			Computer Science	SST	SHSS	
234	CSCI 330	Mobile Computing	3	6	CSCI 332 Operating Systems (490) (C- and above)			Computer Science	SST	SHSS	
235	CSCI 341	Database Systems	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science	SST	SHSS	
236	CSCI 361	Software Engineering	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science	SST	SHSS	
237	CSCI 390	Artificial Intelligence	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science	SST	SHSS	
238	CSCI 398	Directed Study	3	6							
239	CSCI 408	Senior Project I	3	6				CS major only			
240	CSCI 434	Information Security	3	6		CSCI 333 Computer Networks (1145) (D and above)		Computer Science	SST	SHSS	
241	CSCI 471	Complexity and Computability	3	6	MATH 251 Discrete Mathematics (85) (C- and above)			Computer Science	SST	SHSS	
<b>Electrical and Electronic Engineering</b>											
242	EEE 238	Digital Signal and Image Processing	3	6							
243	EEE 250	Microelectronic Devices and Circuits	3	6	BENG 114 Introduction to Electrical Systems (1076) (D and above)						
244	EEE 251	Electronic Engineering Design Principles	3	6	BENG 114 Introduction to Electrical Systems (1076) (D and above)						

245	EEE 341	Digital Electronic System Design	3	6							
246	EEE 342	Electromagnetics	3	6							
247	EEE 343	Embedded Microcontrollers	3	6							
248	EEE 345	Power Electronics	3	6							
249	EEE 382	Antennas and Propagation	3	6							
250	EEE 435	Digital Communications	3	6							
251	EEE 437	Capstone Project 1	3	6							
252	EEE 448	Power Transmission and Distribution plants	3	6							
253	EEE 450	RF and Microwave Circuit Design	3	6							
254	EEE 451	High Voltage Engineering	3	6							
255	EEE 452	Power Systems Protection	3	6							

**Mechanical Engineering**

256	EME 253	Computer Aided Engineering	3	6							
257	EME 254	Mechanics of Materials	3	6							
258	EME 352	Computational Fluid Dynamics	3	6							
259	EME 357	Fluid Mechanics 2	3	6							
260	EME 358	Heat Transfer	3	6	BENG 226 Engineering Thermodynamics (1553) (D and above) AND EME 275 Fluid Mechanics I (1988) (D and above)						
261	EME 361	Machine Design	3	6							
262	EME 451	Capstone project 1	3	6							
263	EME 464	Materials and Manufacturing 1	3	6							
264	EME 467	Vehicle Propulsion Systems	3	6							
265	EME 485	Applied Statistics and Probability	3	6	EME 485 Applied Statistics and Probability (2236) (D and above)						
266	EME 486	Oscillations of mechanical systems	3	6							

**Robotics and Mechatronics**

267	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	SST	SHSS	
268	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	SST	SHSS	
269	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	SST	SHSS	
270	ROBT 301	Mechanical Design with CAD and Machining Laboratory	4	8	ROBT 201 Mechanics: Statics and Dynamics (475) (C- and above)			Robotics and Mechatronics	SST	SHSS	
271	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	SST	SHSS	
272	ROBT 305	Embedded Systems	3	6	ROBT 206 Microcontrollers with Lab (476) (C- and above)			Robotics and Mechatronics	SST	SHSS	
273	ROBT 307	Power Electronics	3	6	ROBT 204 Electrical and Electronic Circuits II with Lab (491) (C- and above)			Robotics and Mechatronics	SST	SHSS	
274	ROBT 401	Robot Dynamics and Control	3	6	ROBT 303 Linear Control Theory with Lab (623) (C- and above)			Robotics and Mechatronics	SST	SHSS	
275	ROBT 407	Machine Learning with Applications	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	SST	SHSS	

276	BENG 117	Engineering Mechanics	3	6							
277	BENG 124	Engineering Mathematics I	3	6							
278	BENG 145	Occupal & Environment Health and Safety	3	6							
279	BENG 146	Programming for Engineers	3	6							
280	BENG 201	Engineering Economy	3	6							
281	BENG 215	Sensors and Actuators	3	6							
282	BENG 221	Engineering Materials	3	6							
283	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)						
284	BENG 405	Project Management	3	6							