Course Requirements and Registration Priorities
Spring 2025

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
CPS											
NUFYP											
1	FEAP 020	Foundation English for Academic Purposes 2	0	0							
2	FLDP 095	Leadership 2	0	0							
3	FMAT 041	Foundation Mathematics 2	0	0							
NUZYP											
4	ZCOM 041	Academic Communications for Graduate Studies II	0	0							
5	ZRDG 031	Academic Reading for Graduate Studies II	0	0							
6	ZWRT 021	Academic Writing for Graduate Studies II	0	0							
GSB											
Economics											
7	ECON 101	Introduction to Microeconomics	3	6				(ND-CC) Undeclared SSH, 5 year UG SSH (pending graduation), Undeclared SSH	Business Administration (UG), SSH	SEDS, SMG, SoM	
8	ECON 102	Introduction to Macroeconomics	3	6				(ND-CC) Undeclared SSH, 5 year UG SSH (pending graduation), Business Administration (UG), Undeclared SSH	SSH	SEDS, SMG, SoM	
9	ECON 120	Managerial Economics	3	6				SEDS	SMG, SSH, SoM		
10	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	2 year UG SSH Undeclared	SSH	
11	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	2 year UG SSH Undeclared	SSH	
12	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	2 year UG SSH Undeclared	SSH	
13	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) OR CSCI 151 Programming for Scientists and Engineers (192) (C- and above) OR CSCI 235 Programming Languages (638) (C- and above) OR CSCI 390 Artificial Intelligence (643) (C- and above) OR MATH 321 Probability (482) (C- and above) OR MATH 322 Mathematical Statistics (1165) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
14	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)))			Economics		SSH	

15	ECON 302	Game Theory and Economic Analysis	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above) OR ECON 101 Introduction to Microeconomics (379) (C- and above) AND MATH 251 Discrete Mathematics (85) (C- and above)		PLS 315 Political Game Theory (704) (C- and above)	3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation)	4 year UG SSH Economics	SSH	
16	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)	3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation)	4 year UG SSH Economics	SSH	
17	ECON 318	Applied Econometrics	3	6	ECON 301 Econometrics I (664) (C- and above)		ECON 336 Programming for Economists (7979) (C- and above)	3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation)	4 year UG SSH Economics	SSH	
18	ECON 319	Matching Theory and Applications	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation)	4 year UG SSH Economics	SSH	
19	ECON 322	Natural Resources and Environmental Economics	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)		ECON 331 Environmental Economics (1687) (C- and above)	3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation)	4 year UG SSH Economics	SSH	
20	ECON 335	Economics of Information	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above)			3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation)	4 year UG SSH Economics	SSH	
21	ECON 336	Programming for Economists	3	6	ECON 301 Econometrics I (664) (C- and above)		ECON 318 Applied Econometrics (6078) (C- and above)	3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation)	4 year UG SSH Economics	SSH	
22	ECON 400	Research Assistance in Economics 2	1	2	ECON 300 Research Assistance in Economics (3080) (P)			Instructor's Permission Required. Registration through Add Course form only!			
23	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)			Economics		SSH	
24	ECON 415	Industrial Organization	3	6	ECON 301 Econometrics I (664) (C- and above)			Economics		SSH	
25	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)			Economics		SSH	
26	ECON 449	Quantitative Macroeconomics	3	6	ECON 202 Intermediate Macroeconomics (207) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)			Economics		SSH	
27	ECON 503	Introduction to Contract Theory and Auctions	4	8				Economics			
28	ECON 515	Industrial Organization	4	8	ECON 531 Econometrics (2505) (C- and above)			Economics			
29	ECON 518	Corporate Finance and Governance	4	8	ECON 501 Microeconomics (2187) (C- and above)						
30	ECON 521	Microeconomic Theory II	4	8	ECON 501 Microeconomics (2187) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)			Economics			
31	ECON 522	Macroeconomics II	4	8	() (and above)			Economics			
32	ECON 531	Econometrics	4	8	ECON 511 Mathematics and Statistics (2188) (C- and above) AND ECON 512 Mathematical Economics (2154) (C- and above)			Economics			

33	ECON 533	Econometrics II Panel Data	4	8	ECON 531 Econometrics (2505) (C- and above)							
34	ECON 536	Programming for Economists	4	8	ECON 531 Econometrics (2505) (C- and above)			Economics				
35	ECON 543	Topics in Macroeconomic Theory	4	8	ECON 502 Macroeconomics (2186) (C- and above)			Economics				
36	ECON 548	Structural Methods in Market Design	4	8	ECON 501 Microeconomics (2187) (B and above) AND ECON 512 Mathematical Economics (2154) (B and above) AND ECON 531 Econometrics (2505) (B and above)			Economics				
37	ECON 549	Quantitative Macroeconomics	4	8	ECON 502 Macroeconomics (2186) (C- and above) AND ECON 532 Applied Econometrics (2977) (C- and above)			Economics				
38	ECON 590	Thesis II	8	16	ECON 589 Thesis I (3714) (P)			Economics				
GSB												
39	ACCT 201	Introduction to Accounting	3	6				4 year UG SEDS, 4 year UG SEDS (pending graduation), 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 4 year UG SSH (pending graduation), Business Administration (UG)	3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH	2 year UG SEDS, 2 year UG SMG, 2 year UG SOM, 2 year UG SSH		
40	BUS 101	Core Course in Business	3	6				2 year UG SOM Medical Sciences, 2 year UG SOM Nursing, 3 year UG SOM, 4 year UG SEDS, 4 year UG SEDS (pending graduation), 4 year UG SMG, 4 year UG SMG (pending graduation), 4 year UG SOM, 4 year UG SSH, 4 year UG SSH (pending graduation), 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SSH (pending graduation), Business Administration (UG)	3 year UG SEDS, 3 year UG SMG, 3 year UG SSH	1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH, 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH		
41	BUS 420	Business Law	3	6	BUS 101 Core Course in Business (5889) (C- and above)			4 year UG SEDS, 4 year UG SEDS (pending graduation), 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 4 year UG SSH (pending graduation)	3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH	2 year UG SEDS, 2 year UG SMG, 2 year UG SOM, 2 year UG SSH		
42	FIN 201	Principles of Finance	3	6	BUS 101 Core Course in Business (5889) (B- and above)			4 year UG SEDS, 4 year UG SEDS (pending graduation), 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 4 year UG SSH (pending graduation), Business Administration (UG)	3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH	2 year UG SEDS, 2 year UG SMG, 2 year UG SOM, 2 year UG SSH		
43	GSBF 513	Financial Data Analytics II	2.5	5				GSB				
44	GSBF 514	Corporate Finance	2.5	5				GSB				
45	GSBPHD 03	Quantitative Research Methods	4	8				Business Administration (PhD)				
46	GSBPHD 04	Core Research Skills I	4	8				Business Administration (PhD)				
47	GSBPHD 08	Core Research Skills II	4	8				Business Administration (PhD)				
48	MBA 02	Foundations of Financial and Managerial Accounting	3	6				Engineering Management				
49	MBA 05	Principles of Finance	3	6				Engineering Management				
50	MBA 06	Economics for Managers	3	6								
51	MBA 07	Management and Organizations	3	6				Engineering Management				
52	MBA 08	Marketing	3	6								
53	MBA 09	Marketing Management	2	4								
54	MBA 09	Entrepreneurship	3	6								
55	MBA 10	Foundations of Strategy	3	6								
56	MBA 11	Operations Management	3	6								
57	MSF 01	Financial Modeling	2.5	5				GSB				
58	MSF 06	Banking and Credit	2.5	5				GSB				
59	MSF 11	FinTech	2.5	5				GSB				

60	MSF 513a	Industry Insights Initiative	0	0				GSB			
61	OM 201	Operations Management	3	6	BUS 101 Core Course in Business (5889) (C- and above)			4 year UG SEDS, 4 year UG SEDS (pending graduation), 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 4 year UG SSH (pending graduation)			
GSPP											
Master in Public Administration											
62	MPA 610	Program Evaluation	4	8	MPA 602 Public Administration in Theory and Practice (2077) (C- and above) AND MPA 603 Economic Applications for Public Managers (2074) (C- and above) AND MPA 605 Research Methods for Public Managers (2108) (C- and above)			1 year GSPP Public Administration			
63	MPA 699	Master's Project with Overseas Component	0	0				1 year GSPP Public Administration			
64	MPE 600	Internship in Public Policy	4	8	(MPP 601 Microeconomics and Public Policy (1449) (C- and above) AND MPP 602 Macroeconomics and Public Policy (1023) (C- and above) AND MPP 611 Statistics for Public Policy (1450) (C- and above) AND MPP 621 Public Policy and Analysis (1451) (C- and above) AND MPP 641 Public Management and Leadership (1907) (C- and above) AND MPP 603 Data Analytics in Public Policy (6618) (C- and above)) OR (MPA 602 Public Administration in Theory and Practice (2077) (C- and above) AND MPA 603 Economic Applications for Public Managers (2074) (C- and above) AND MPA 605 Research Methods for Public Managers (2108) (C- and above) AND MPE 608 Strategic Management and Leadership (2491) (C- and above) AND MPA 610 Program Evaluation (6617) (C- and above))			2 year GSPP Public Policy			
65	MPE 610	National Identity and Public Policy	4	8				Public Administration, Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
66	MPE 616	Designing and Managing Public Private Collaboration	4	8				Public Administration	Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
67	MPE 619	Quantitative Analysis for Managers	4	8				Public Administration	Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
68	MPE 622	Case Study Research Method	4	8				Public Administration, Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
69	MPE 625	Ethical Challenges in Governance	4	8				Public Administration	Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
70	MPE 639	International Financial Policy	4	8				Public Administration	Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
71	MPE 649	Public Sector Innovation	4	8				Public Administration, Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
72	MPE 663	Applied Public Economics and Finance	4	8	MPP 601 Microeconomics and Public Policy (1449) (B- and above) OR MPA 603 Economic Applications for Public Managers (2074) (B- and above)			Public Administration, Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
73	MPE 672	The Third Sector: civil society, nonprofit organizations, and voluntary action	4	8				Public Administration, Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		

74	MPE 681	Natural Resource Management and Policy	4	8				Public Administration, Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
75	MPE 682	Sustainable Development and Environmental Governance	4	8				Public Administration	Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
76	MPE 683	Energy Systems and Climate Policy	4	8				Public Administration	Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
77	MPE 685	Water Resources Policy and Management	4	8				Public Administration	Public Policy	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM	
Master in Public Policy											
78	MPP 602	Macroeconomics and Public Policy	4	8				1 year GSPP Public Policy			
79	MPP 603	Data Analytics in Public Policy	4	8	MPP 611 Statistics for Public Policy (1450) (C- and above) AND MPP 601 Microeconomics and Public Policy (1449) (C- and above) AND MPP 621 Public Policy and Analysis (1451) (C- and above) AND MPP 613 Policy Research Design and Methods (1301) (C- and above)			1 year GSPP Public Policy			
80	MPP 641	Public Management and Leadership	4	8				1 year GSPP Public Policy			
81	MPP 699	Policy Analysis Exercise with Overseas Component	8	16	MPP 601 Microeconomics and Public Policy (1449) (C- and above) AND MPP 611 Statistics for Public Policy (1450) (C- and above) AND MPP 613 Policy Research Design and Methods (1301) (C- and above) AND MPP 621 Public Policy and Analysis (1451) (C- and above)			2 year GSPP Public Policy			
82	MPP 699-0	Policy Analysis Exercise with Overseas Component	0	0	MPP 613 Policy Research Design and Methods (1301) (C- and above)			1 year GSPP Public Policy			
PhD in Public Policy											
83	DPP 600	Developing Dissertation Research	0	0				Public Policy			
84	DPP 602	Macroeconomics in Public Sector	4	8				1 year GSPP PhD Public Policy			
85	DPP 613	Research Design (qualitative and quantitative)	4	8				1 year GSPP PhD Public Policy	Business Administration (PhD)		
86	DPP 621	Public Policy and Analysis	4	8				1 year GSPP PhD Public Policy			
87	DPP 631	Politics of Public Policy	4	8				1 year GSPP PhD Public Policy			
88	DPP 689	PhD Qualifying Examinations	0	0				1 year GSPP PhD Public Policy, 2 year GSPP PhD Public Policy			
89	DPP 690	Thesis Preparation and Writing	66	132	DPP 689 PhD Qualifying Examinations (4830) (P) AND DPP 699 Thesis Design and Written Proposal (4831) (B- and above)			4 year GSPP PhD Public Policy			
90	DPP 690-0	Thesis Preparation and Writing	0	0				3 year GSPP PhD Public Policy			
91	DPP 699	Thesis Design and Written Proposal	6	12				2 year GSPP PhD Public Policy			
GSE											
MA in Multilingual Education											
92	EDML 612	Multilingual Society	3	6				1 year GSE MA in Multil.Education			
93	EDML 620	Language and Literacy Development	3	6				2 year GSE MA in Multil.Education			
94	EDML 622	First and Second Language Acquisition	3	6							
95	EDML 630	Language Policy and Education Reform Across Contexts	3	6				1 year GSE MA in Multil.Education			
96	EDML 691	Thesis Research II	6	12				2 year GSE MA in Multil.Education			
97	EDML 692	Thesis Research III	3	6				2 year GSE MA in Multil.Education			
MSc Educational Leadership HE											
98	EDHE 604	Thesis Seminar 4	0	0				2 year GSE Educ.Leadership			
99	EDHE 605	Thesis Submission and Defense	10.5	21				2 year GSE Educ.Leadership			

100	EDHE 626	Organization and Governance in Higher Education	3	6				1 year GSE Educ.Leadership			
101	EDHE 628	Higher Education Policy Analysis and Development	3	6				1 year GSE Educ.Leadership			
102	EDHE 629	Globalization and International Higher Education	3	6				1 year GSE Educ.Leadership			
103	EDUC 511	Advanced English for Education Professionals II	3	6				1 year GSE MA in Multil.Education			
104	EDUC 513	English for Thesis Writing II	3	6				2 year GSE MA in Multil.Education			
105	EDUC 531	Academic English 2	2	4				1 year GSE Educ.Leadership			
106	EDUC 573	Academic Writing in Kazakh	3	6				1 year GSE MA in Multil.Education, 2 year GSE MA in Multil.Education	1 year GSE PhD Education, 2 year GSE PhD Education, 3 year GSE PhD Education, 4 year GSE PhD Education		
107	EDUC 583	Academic Writing in Kazakh (MSc)	2	4				1 year GSE Educ.Leadership, 2 year GSE Educ.Leadership			
108	EDUC 585	Education in Kazakhstan for International Students	3	6				1 year GSE Educ.Leadership, 1 year GSE MA in Multil.Education, 2 year GSE Educ.Leadership, 2 year GSE MA in Multil.Education	1 year GSE PhD Education, 2 year GSE PhD Education, 3 year GSE PhD Education, 4 year GSE PhD Education		
109	EDUC 591	Academic English Writing for Doctoral Students II	3	6				2 year GSE PhD Education			
110	EDUC 592	Academic English Writing for Doctoral Students III	3	6				4 year GSE PhD Education			
111	EDUC 608	Research Methods 2	3	6				1 year GSE Educ.Leadership, 1 year GSE MA in Multil.Education			
112	EDUC 618	Educational Leadership	3	6				1 year GSE Educ.Leadership			
113	EDUC 704	Advanced Methods of Education Research	3	6				1 year GSE PhD Education			
114	EDUC 705	Advanced Methods of Education Research: Qualitative Methods	3	6				1 year GSE PhD Education			
115	EDUC 711	Globalisation and Education	3	6				1 year GSE PhD Education			
116	EDUC 720	Philosophy of Education	3	6				1 year GSE PhD Education			
117	EDUC 728	Exploring the Research Topic 2	0	0				1 year GSE PhD Education			
118	EDUC 730	Preparation for Proposal Defence	0	0				2 year GSE PhD Education			
119	EDUC 733	Thesis Proposal Defense	12.5	25				3 year GSE PhD Education, 4 year GSE PhD Education			
120	EDUC 740	Doctoral seminar 1	3	6				2 year GSE PhD Education, 3 year GSE PhD Education			
121	EDUC 741	Doctoral seminar 2	3	6				3 year GSE PhD Education			
122	EDUC 751	Dissertation Research	0	0				3 year GSE PhD Education, 4 year GSE PhD Education, 5 year GSE PhD Education (pending graduation)			
123	EDUC 753	Thesis Defense	55	110				4 year GSE PhD Education, 4 year GSE PhD Education (pending graduation), 5 year GSE PhD Education (pending graduation)			
124	EDUC 760	Teaching and Learning in the University Context: Curriculum, Pedagogy and Assessment	3	6				2 year GSE PhD Education, 3 year GSE PhD Education, 4 year GSE PhD Education			
125	EDUC 900	Developing PhD Student Strategies for Progressing the Thesis II	9	18				6 year GSE (pending graduation)			
MSc Educational Leadership IE											
126	EDIE 604	Thesis Seminar 4	0	0				2 year GSE Educ.Leadership			
127	EDIE 605	Thesis Submission and Defense	10.5	21				2 year GSE Educ.Leadership			

128	EDIE 626	Global Perspectives on Inclusive Education	3	6				1 year GSE Educ.Leadership				
129	EDIE 628	Inclusive Curriculum and Assessment	3	6				1 year GSE Educ.Leadership				
130	EDIE 631	Developing Inclusive Schools for an Inclusive Society	3	6				1 year GSE Educ.Leadership				
MSc Educational Leadership SE												
131	EDSE 604	Thesis Seminar 4	0	0				2 year GSE Educ.Leadership				
132	EDSE 605	Thesis Submission and Defense	10.5	21				2 year GSE Educ.Leadership				
133	EDSE 626	Curriculum Development and Implementation	3	6				1 year GSE Educ.Leadership				
134	EDSE 629	Teacher Development and Identity	3	6				1 year GSE Educ.Leadership				
135	EDSE 632	School Improvement and Effectiveness	3	6				1 year GSE Educ.Leadership				
Other												
Other												
136	STUMOB 001	Student Mobility Course	0	0								
137	T - 16914-S25	Contemporary German Literature: Jenny Erpenbeck's Go Went Gone	3	6								
138	T - 17387-S25	Negotiating Gender: Queering the Sublime	3	6								
139	T - 17388-S25	Negotiating Gender: Aesthetic Theory: Undoing Binaries	3	6								
140	T - 19013	Philosophy of Law	3	6								
141	T - 20160050	Semester Spanish Course Beginners Level (A1)	4	8								
142	T - 20160052	Semester Spanish Course High Intermediate (B1)	4	8								
143	T - 20160052	Semester Spanish Course B1	4	8								
144	T - 22006	Introduction to Macroeconomics	3	6								
145	T - 22017	Intermediate Macroeconomics	3	6								
146	T - 23042	Sociology of Migration	3	6								
147	T - 25016	Linear Algebra II	3	6								
148	T - 31022	English Phonetics and Phonology	3	6								
149	T - 31038	North American Literature up to end of 19th c.	3	6								
150	T - 31053	Intercultural Pragmatics in English	3	6								
151	T - 35035	Labour Economics	3	6								
152	T - 4PMBCBP9	Cell biology labwork	.5	1								
153	T - 4PMBDAQ9	Data acquisition (Labview)	1	2								
154	T - 4PMBEPD2	Experimental Protocol Design	1	2								
155	T - 4PMBFQC4	From quantitative cell biology to precision medicine	.5	1								
156	T - 4PMBIPM9	Image processing and medical applications	1	2								
157	T - 4PMBMSB4	Modelling in systems biology	.5	1								
158	T - 4PMBNM46	Numerical methods: simulation project	1	2								
159	T - 4PMBPBI6	Physiology and Bioenergetics	.5	1								
160	T - 54660-S25	Deutsch-Sprachkurs Niveau A1.1 (German as a Foreign Language - Level A1.1 - Course 1)	4	8								

161	T - 65529	Deutsch als Fremdsprache – B1.1 – Basiskurs	3	6							
162	T - 94070	Digital Transformation	2	4							
163	T - 94090	Multi-project Management	2	4							
164	T - 07-BA 35-450-05	Digitalization Economics: The Case of Artificial Intelligence	3	6							
165	T - 08 -26-GS-3	Internationalized Politics	3	6							
166	T - 08-26 - M10-3	Ethics of War and Peace	3	6							
167	T - 08-26 - M11-7	Drivers of International Relations: Competition, Cooperation, Institutions, Race, Gender, Colonialism	3	6							
168	T - 08-26 - M12-2	Party Politics and Social Change	3	6							
169	T - 08-26 - M13.1-4	Politics of Mental Health Care	3	6							
170	T - 08-29 - W-51	Politics of Inequality	3	6							
171	T - 08-31 -2-M5c-1	Introduction to Cultural Studies: Definitions, Theories, Approaches	3	6							
172	T - 08-350 - M6-FdS-6	Gender, Work, and Welfare	3	6							
173	T - 17390-S25	Literary and Cultural Theories: Reading the Past: Historicism, Presentism, Hauntology	4	8							
174	T - 2ABWL 415	Startup Center: Entrepreneurship Essentials	3	6							
175	T - AIA 3013	Organizational Motivation and Leadership	3	6							
176	T - AIC 2004	Postcolonial Literature: Themes and Tropes	3	6							
177	T - AII 2023	Cold War and Overseas Chinese in Asia	3	6							
178	T - AIL 3038	Modern American History	3	6							
179	T - AIM 2012	Directing: Principles and Practices	3	6							
180	T - BA.A A.LW06	Queer Fiction	3	6							
181	T - BA.AA. HIS	History of English	3	6							
182	T - BA.AA. LW06	Indigenous Coming of Age Literature	3	6							
183	T - BA.AA. SW03	Language and Communication	3	6							
184	T - BA35 450-06	Applied Data Science in Economics	3	6							
185	T - BME 309	Decision making and the Brain	3	6							
186	T - BME 460	Advanced Machine Learning and AI in Clinical Medicine	3	6							
187	T - CCST 9073	Emotion, Cognition, and the Brain	3	6							
188	T - CHEM 1201	General Chemistry I	3	6							
189	T - CIF 2004	Digital Marketing	3	6							
190	T - CIVL 1113	Engineering Mechanics and Materials	3	6							

191	T - CIVL 2104	Hydraulics and Hydrology	3	6							
192	T - CIVL 2111	Transportation engineering	3	6							
193	T - CIVL 3115	Solid and Hazardous Waste Management	3	6							
194	T - CIVL 3121	Water Resources Engineering	3	6							
195	T - CLIT 1008	Ways of Reading: Film, Literature, and Culture	3	6							
196	T - CLIT 2014	Feminist Cultural Studies	3	6							
197	T - CLIT 2045	Colonialism / Postcolonialism	3	6							
198	T - COMM 1200	Public Speaking & Persuasion	3	6							
199	T - COMM 1200	Public Speaking and Persuasion	3	6							
200	T - CSCI 2303	Intro to Computer Networks	3	6							
201	T - CSCI 3510	Principles of Operating Systems	3	6							
202	T - CSCI 4701	Deep Learning	3	6							
203	T - CSCI 6515	Natural Language Precessing	3	6							
204	T - CSE 402	Natural Language Processing	3	6							
205	T - CSE 465	Mobile Computing	3	6							
206	T - CSE 515	Advanced Algorithms	3	6							
207	T - DNSC 3603	Data Science	3	6							
208	T - DSL 2025	Data Science for Linguists	4	8							
209	T - DTDP 2025	Dependency treebanks and dependency parsing	4	8							
210	T - ECON 1101	Principles of Microeconomics	3	6							
211	T - ECON 1202	Principles of Macroeconomics	3	6							
212	T - ECON 201	Microeconomics	3	6							
213	T - ECON 202	Macroeconomics	3	6							
214	T - ECON 311	Introduction to Econometrics	3	6							
215	T - ECON 312	Behavioral Economics	3	6							
216	T - ECON 345	International Finance	3	6							
217	T - ECON 360	Advanced Macroeconomics	3	6							
218	T - EE 200	Electronic Circuits Implement	2	4							
219	T - EE 202	Electronic Circuits II	2	4							
220	T - EE 417	Computer Vision	3	6							
221	T - ENGL 2141	Doing Discourse Analysis	3	6							
222	T - ENS 206	System Modelling and Control	3	6							

223	T - ETHC 113	A Quest for Ethical Foundations	3	6							
224	T - FIN 401	Corporate Finance	3	6							
225	T - FIN 403	Derivative Securities	3	6							
226	T - FINC 4700	Corporate Finance	3	6							
227	T - ILS 2025	S: Introduction to Literary Studies	3	6							
228	T - INTA 3601	International development	3	6							
229	T - LING 2074	Introduction to Second Language Research	3	6							
230	T - LLM 2025	Understanding LLMs	4	8							
231	T - MA.AA. LW01	Poetics of Pollution: Literature and Environmental Waste	3	6							
232	T - MA.AA. LW09	From Beowulf to Barrie – Elves and Fairies in English Literature	3	6							
233	T - MATH 202	Differential Equations	3	6							
234	T - MATH 203	Introduction to Probability	3	6							
235	T - MATH 203	Multivariable Calculus	3	6							
236	T - MATH 211	Statistics for Sciences	3	6							
237	T - MATH 2402	Introduction to Topology	3	6							
238	T - MATH 3600	Complex Analysis	3	6							
239	T - MECH 3408	Mechanics of fluids	3	6							
240	T - MECH 3427	Design and manufacture	3	6							
241	T - MML 2025	Mathematics for Machine Learning III	3	6							
242	T - MRKT 2400	Principles of Marketing	3	6							
243	T - PHIL 1034	Ethics and Politics, East and West: an introduction to Philosophy	3	6							
244	T - PHIL 216	Ethics	3	6							
245	T - PIX 2008	Education and Society	3	6							
246	T - POL 320LA	Why Do Democracies Die?	3	6							
247	T - POLI 3005	Capitalism and Social Justice	3	6							
248	T - POLI 3080	Global Political Economy	3	6							
249	T - POLI 3093	Understanding Social Protest	3	6							
250	T - POLS 1200	State & Politics	3	6							
251	T - POLS 1200	State and Politics	3	6							
252	T - POLS 2400	Theories of International Relations	3	6							

253	T - PSYC 1001	Introduction to Psychology	3	6							
254	T - S 321	Applied Econometrics	3	6							
255	T - SINO 1003	Greater China: A Multi-disciplinary Introduction	3	6							
256	T - SM 2025	PS: Structure and Meaning	3	6							
257	T - SOWK 1012	Communication and Counselling Skills	3	6							
258	T - SZHB 6001	Intensive German Course for New Exchange Students of Bremen University – Complete Beginners A1.1 (Group A)	3	6							
259	T - SZHB 6002	German Language Course Level A1.1	3	6							
260	T - SZHB 6002	Intensive German Course for New Exchange Students of Bremen University - Complete Beginners A1.1. (Group B)	3	6							
261	T - SZHB 6006a	German – Complete Beginners A1.1	3	6							
262	T - TUR 102	Basic Turkish II	3	6							
263	T - TUR 201	Basic Turkish I	3	6							
264	T - WIA 2004	Operating Systems	3	6							
265	T - WIG 3002	Rendering and Animations	3	6							
266	T - WIG 3005	Game Development	3	6							
267	T -17387c-S25	Negotiating Gender: Queering the Sublime	4	8							
268	T -17388d-S25	Negotiating Gender: Aesthetic Theory: Undoing Binaries	4	8							
269	T -DaF-BG-07	German A2.2 for Erasmus and Exchange Students	3	6							
SoM											
Biological Science											
270	BIOL 101	Introductory Biology	3	6			BIOL 110 Modern Biology I (1070) (C- and above)	(ND-CC) Undeclared SSH, Anthropology, Chemistry, Economics, History, Mathematics, Nursing, Physics, Political Science and International Relations, SEDS, SMG, Sociology, Undeclared SSH, World Languages, Literature and Culture			
271	BIOL 110	Modern Biology I	3	6				1 year UG SSH Biological Sciences, 2 year UG SSH Biological Sciences	Chemistry	Medical Sciences	
272	BIOL 110L	Modern Biology I Laboratory	1	2		BIOL 110 Modern Biology I (1070) (C and above)		1 year UG SSH Biological Sciences, 2 year UG SSH Biological Sciences	Chemistry	Medical Sciences	
273	BIOL 120	Modern Biology II	3	6	BIOL 110 Modern Biology I (1070) (C and above)			1 year UG SSH Biological Sciences, 2 year UG SSH Biological Sciences	Chemistry	Medical Sciences	
274	BIOL 120L	Modern Biology II Laboratory	1	2	BIOL 110 Modern Biology I (1070) (C and above) OR BIOL 110L Modern Biology I Laboratory (5448) (C and above)	BIOL 120 Modern Biology II (1195) (C and above)		1 year UG SSH Biological Sciences, 2 year UG SSH Biological Sciences	Chemistry	Medical Sciences	
275	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)			2 year UG SSH Biological Sciences	3 year UG SSH Biological Sciences	Biological Sciences, Medical Sciences	
276	BIOL 301	Molecular Cell Biology	3	6	BIOL 120 Modern Biology II (1195) (C and above)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	2 year UG SOM Medical Sciences, 3 year UG SOM Medical Sciences, Biological Sciences	

277	BIOL 301L	Molecular Cell Biology Laboratory	1	2	BIOL 120 Modern Biology II (1195) (C and above) OR BIOL 120L Modern Biology II Laboratory (5443) (C and above)	BIOL 301 Molecular Cell Biology (5809) (C and above)		2 year UG SSH Biological Sciences, 3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
278	BIOL 305	Introduction to Microbiology	3	6	(BIOL 120 Modern Biology II (1195) (C and above) AND BIOL 120L Modern Biology II Laboratory (5443) (C and above)) OR BIOL 120 Modern Biology II (1195) (C and above)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
279	BIOL 305L	Introduction to Microbiology Laboratory	1	2	BIOL 120 Modern Biology II (1195) (C and above) OR BIOL 120L Modern Biology II Laboratory (5443) (C and above)	BIOL 305 Introduction to Microbiology (5789) (C and above)		3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
280	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)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
281	BIOL 321	Bioethics	3	6	BIOL 120 Modern Biology II (1195) (C and above)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	2 year UG SOM Medical Sciences, 3 year UG SOM Medical Sciences, Biological Sciences	
282	BIOL 331	Human Anatomy and Physiology II	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)			2 year UG SSH Biological Sciences, 3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
283	BIOL 333	Environmental Biology	3	6	BIOL 120 Modern Biology II (1195) (C and above)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
284	BIOL 341	Biochemistry I	3	6	CHEM 211 Organic Chemistry I (154) (C and above)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	2 year UG SOM Medical Sciences, 3 year UG SOM Medical Sciences, Biological Sciences	
285	BIOL 355	Critical Research Reasoning	3	6	BIOL 120 Modern Biology II (1195) (C and above)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
286	BIOL 363	Structural Bioinformatics	4	8	BIOL 341 Biochemistry I (2002) (C and above) OR CHEM 341 Biochemistry I (1058) (C and above) OR CSCI 235 Programming Languages (638) (C and above)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
287	BIOL 370	Genetics	3	6	BIOL 120 Modern Biology II (1195) (C and above)			3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
288	BIOL 370L	Genetics Laboratory	1	2		BIOL 370 Genetics (1174) (C and above)		3 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	4 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
289	BIOL 425	Biomedical Research Methods	3	6	BIOL 110 Modern Biology I Lab (1444) (C and above) OR BIOL 110 Modern Biology I (1070) (C and above) AND BIOL 341 Biochemistry I (2002) (C and above) OR CHEM 341 Biochemistry I (1058) (C and above)			4 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	3 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
290	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)			4 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	3 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	

291	BIOL 445	Medical Microbiology	3	6	BIOL 305 Introduction to Microbiology (5789) (C and above) OR BIOL 305 Introduction to Microbiology with Lab (1642) (C and above)			4 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	3 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
292	BIOL 450	Food Microbiology	3	6	BIOL 305 Introduction to Microbiology with Lab (1642) (C and above) OR BIOL 305 Introduction to Microbiology (5789) (C and above)			4 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	3 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
293	BIOL 468	Integrated Cell Biology	3	6	(BIOL 110 Modern Biology I (107) (C and above) OR BIOL 110 Modern Biology I (1070) (C and above)) AND BIOL 120 Modern Biology II (1195) (C and above)			4 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	3 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
294	BIOL 481	Neuroimmunology	3	6	BIOL 310 Immunology (628) (C and above)			4 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	3 year UG SSH Biological Sciences	3 year UG SOM Medical Sciences, Biological Sciences	
295	BIOL 491	Honors Thesis	9	18	BIOL 490 Honors Thesis Research (1581) (C and above)			Instructor's Permission Required. Registration through Add Course form only!			
296	BIOL 492	Research Experience in Biology	3	6	BIOL 456 Biology Research Design (1217) (C- and above)			4 year UG SSH Biological Sciences, 5 year UG SSH Biological Sciences	Biological Sciences		
297	BIOL 502	Research Methods and Bioethics	3	6				Life Sciences	SEDS, SMG, SoM		
298	BIOL 580	Applied Bioinformatics	3	6	BIOL 520 Statistical Methods in Life Sciences (1203) (C and above)			Life Sciences	SEDS, SMG, SoM		
299	BIOL 590	Research Design and Project Planning	3	6				Life Sciences			
300	BIOL 591	Cellular Biophysics	3	6				Life Sciences	SEDS, SMG, SoM		
301	BIOL 599	Master’s Thesis Research	0	0				Instructor's Permission Required. Registration through Add Course form only!			
302	BIOL 630	Advanced Neuroscience	3	6				Life Sciences		SEDS, SMG, SoM	
303	BIOL 637	Fundamentals of Advanced Microscopy	3	6				Life Sciences	SEDS, SMG, SoM		
304	BIOL 637L	Fundamentals of advanced microscopy	1	2				Life Sciences	SEDS, SMG, SoM		
305	BIOL 692	Master’s Thesis	15	30	BIOL 691 Master’s Thesis Research Proposal (5676) (B- and above)			Life Sciences			
306	BIOL 800-0	Thesis Research	0	0				Life Sciences			
307	BIOL 802	Research Methods and Bioethics	3	6				Life Sciences			
308	BIOL 805	Radiation Biology	4	8	BIOL 820 Statistical Methods in Life Sciences (5304) (C and above)		BIOL 605 Radiation Biology (7185) (C and above)				
309	BIOL 830	Advanced Neuroscience	4	8				Life Sciences	SEDS, SMG, SoM		
310	BIOL 837	Advanced Optical and Electron Microscopy	4	8				Life Sciences	SEDS, SMG, SoM		
311	BIOL 880	Applied Bioinformatics	4	8				Life Sciences	SEDS, SMG, SoM		
312	BIOL 891	Cellular Biophysics	4	8				Life Sciences	SEDS, SMG, SoM		
MMM											
313	MMMM 508	Molecular Immunology	3	6				1 year Gr SOM Molecular Medicine, 1 year Gr SOM Pharmacology and Toxicology			
314	MMMM 511	Research Methods in Molecular Biomedicine	3	6				1 year Gr SOM Molecular Medicine, 1 year Gr SOM Pharmacology and Toxicology			
315	MMMM 513	Molecular Basis of Neurological Disorders	3	6				1 year Gr SOM Molecular Medicine			
316	MMMM 601	Entrepreneurship	2	4				1 year Gr SOM Molecular Medicine			
317	MMMM 690	Master Research Project	15	30				2 year Gr SOM Molecular Medicine			
MPTOX											

318	MPTX 508	Research Methods in Pharmacology	3	6	MPTX 502 Cellular Communications (5842) (C- and above) OR MPTX 503 Principles of Pharmacology and Toxicology (5843) (C- and above)			1 year Gr SOM Pharmacology and Toxicology			
319	MPTX 511E	Environmental Toxicology	3	6				1 year Gr SOM Molecular Medicine, 1 year Gr SOM Pharmacology and Toxicology			
320	MPTX 701	Research Project and Thesis	15	30	MPTX 601 Biostatistics and Critical Appraisal (6342) (C and above) AND MSBM 601 Introduction to Research Project (6344) (P)			2 year Gr SOM Pharmacology and Toxicology			
MSMR											
321	MSMR 502	Nutrition in Sports and Exercise	3	6				1 year Gr SOM Sports Medicine and Rehabilitation			
322	MSMR 506	Seminar in Sports Medicine	3	6				1 year Gr SOM Sports Medicine and Rehabilitation			
323	MSMR 507	Management and Rehabilitation of Injury	4	8				1 year Gr SOM Sports Medicine and Rehabilitation	1 year Gr SOM Public Health		
324	MSMR 511	Introduction to Research Project	3	6				1 year Gr SOM Sports Medicine and Rehabilitation			
325	MSMR 516	Clinical & Motivational Interviewing	3	6				1 year Gr SOM Sports Medicine and Rehabilitation			
326	MSMR 602	Advances in Sports and Rehabilitation	4	8				2 year Gr SOM Sports Medicine and Rehabilitation			
327	MSMR 702	Master Research Project Thesis	12	24				2 year Gr SOM Sports Medicine and Rehabilitation			
Master of Sciences in Biomedicine											
328	MMMM 507	Critical Analysis of the Contemporary Concepts in Molecular Medicine	3	6				1 year Gr SOM Molecular Medicine			
329	MPTX 504	Systemic Pharmacology I	3	6	MSBM 512 Principles of Pharmacology and Toxicology (8727) (C- and above)			1 year Gr SOM Pharmacology and Toxicology			
330	MPTX 507	Applied Toxicology	3	6	MSBM 512 Principles of Pharmacology and Toxicology (8727) (C- and above)			1 year Gr SOM Pharmacology and Toxicology			
331	MSMR 509	Robots for Rehabilitation	3	6				1 year Gr SOM Sports Medicine and Rehabilitation			
Medical Sciences											
332	NUSM 310	Capstone Project	15	30	NUSM 301 Introduction to Immunology, Microbiology and Genetics (6958) (C- and above) OR NUSM 302 Introduction to Statistics for Evidence-Based Practice (6959) (C- and above) OR NUSM 303 Introduction to Anatomy and Histology (6957) (C- and above)			3 year UG SOM Medical Sciences			
333	NUSM 404	Cellular and Pathological Basis of Disease	4	8	NUSM 310 Capstone Project (7138) (C- and above)			4 year UG SOM Medical Sciences			
334	NUSM 406	Immunology in Health and Disease	4.5	9	NUSM 310 Capstone Project (7138) (C- and above)			4 year UG SOM Medical Sciences			
335	NUSM 407	Medical Microbiology	4.5	9	NUSM 310 Capstone Project (7138) (C- and above)			4 year UG SOM Medical Sciences			
336	NUSM 411b	Basics of Physical Examination	0	0	NUSM 310 Capstone Project (7138) (C- and above)						
337	NUSM 415	Behavioral Medicine	0	0	NUSM 310 Capstone Project (7138) (C and above)			4 year UG SOM Medical Sciences			
338	NUSM 416	Evidence-based Medicine II and Biostatistics	0	0	NUSM 310 Capstone Project (7138) (C and above)			4 year UG SOM Medical Sciences			
339	NUSM 417	Clinical Experiences	0	0	NUSM 310 Capstone Project (7138) (C and above)			4 year UG SOM Medical Sciences			
Nursing											

340	NUR 121	Introduction to Basic Statistics for Evidence-Based Practice	3	6				3 year UG SOM Nursing			
341	NUR 122	English-Russian-Kazakh Medical Terminology	2	4				2 year UG SOM Nursing			
342	NUR 202	Introduction to Genetics & Molecular Therapeutics	3	6				2 year UG SOM Nursing			
343	NUR 212/L	Foundations of Nursing Practice II	2	4				2 year UG SOM Nursing			
344	NUR 213/C	Medical-Surgical Nursing I: Clinical	7	14				2 year UG SOM Nursing			
345	NUR 305	Research Methods for Nursing	3	6							
346	NUR 306	Medical-Surgical Nursing: Complex Medical Management for Acute and Chronic Patient	4	8							
347	NUR 307	Health Promotion and Disease Prevention in Culturally Diverse Populations	4	8							
348	NUR 308	Enhanced Communication in Professional Nursing	4	8							
349	NUR 313C	Medical-Surgical Nursing II: Complex Surgical Management and Clinical	7	14				3 year UG SOM Nursing			
350	NUR 314C	Psychiatric Nursing and Clinical	4	8				3 year UG SOM Nursing			
351	NUR 321	Ethics in Healthcare	2	4				3 year UG SOM Nursing			
352	NUR 322	Nursing Clinical Informatics	2	4				2 year UG SOM Nursing			
353	NUR 402	Principles of Healthcare Administration	4	8							
354	NUR 405	Issues and Trends in Nursing	4	8							
355	NUR 406.2	Medical-Surgical Nursing: Complex Management	4	8							
356	NUR 407	Capstone: Clinical and EBP Quality Improvement Research	4	8							
357	NUR 415C	Clinical Transitions	9	18				4 year UG SOM Nursing			
358	NUR 422	Capstone II: Evidence-Based Quality Improvement/Research Project Completion	3	6				4 year UG SOM Nursing			
PHD											
359	PHDBS 701	Thesis Research	90	180				4 year PhD SOM BioMed Sciences, 5 year PhD SOM BioMed Sciences (pending graduation)			
360	PHDBS 701-0	Thesis Research	0	0				1 year PhD SOM BioMed Sciences, 2 year PhD SOM BioMed Sciences, 3 year PhD SOM BioMed Sciences, 4 year PhD SOM BioMed Sciences, 5 year PhD SOM BioMed Sciences (pending graduation)			
361	PHDBS 702	Molecular Basis of Health and Disease	4	8				1 year PhD SOM BioMed Sciences	1 year PhD SSH Life Sciences		
362	PHDBS 703	Biomedical Research Analysis and Design of Experimentation	4	8				1 year PhD SOM BioMed Sciences			
363	PHDBS 704	NUSOM seminar (final semester)	4	8				4 year PhD SOM BioMed Sciences			
364	PHDBS 704-0	NUSOM seminar	0	0				1 year PhD SOM BioMed Sciences, 2 year PhD SOM BioMed Sciences, 3 year PhD SOM BioMed Sciences, 4 year PhD SOM BioMed Sciences			
365	PHDBS 706	Advanced Biomedical Research Analysis and Design of Experimentation	4	8				2 year PhD SOM BioMed Sciences			
366	PHDBS 707	Publication Analysis	4	8				2 year PhD SOM BioMed Sciences			
367	PHDBS 708	Writing for Biomedical Sciences	3	6				2 year PhD SOM BioMed Sciences	1 year PhD SSH Life Sciences, 2 year PhD SSH Life Sciences		
368	PHDGH 701-0	Thesis Research	0	0				1 year PhD SOM Global Health, 2 year PhD SOM Global Health, 3 year PhD SOM Global Health	1 year PhD SOM BioMed Sciences		

369	PHDGH 704-0	NUSOM Seminar in Global Health	0	0				1 year PhD SOM Global Health, 2 year PhD SOM Global Health, 3 year PhD SOM Global Health	1 year PhD SOM BioMed Sciences		
370	PHDGH 705	Global Health into Action	3	6				1 year PhD SOM Global Health	1 year PhD SOM BioMed Sciences		
371	PHDGH 706	Methods in Global Health Research	3	6				1 year PhD SOM Global Health	1 year PhD SOM BioMed Sciences		
372	PHDGH 707	Implementation Science in Global Health	3	6				1 year PhD SOM Global Health	1 year PhD SOM BioMed Sciences		
373	PHDGH 709	Critical Appraisal in Global Health	3	6				2 year PhD SOM Global Health	2 year PhD SOM BioMed Sciences		
374	PHDGH 710b	Writing for Health Sciences	3	6							
Public Health											
375	PUBH 512	Biostatistical Modeling and Sampling	3	6				1 year Gr SOM Public Health			
376	PUBH 522	Advanced Analytical Epidemiology	3	6				1 year Gr SOM Public Health			
377	PUBH 551	Health Services Management, Health Economic and Health Policy	3	6				1 year Gr SOM Public Health, 2 year Gr SOM Public Health			
378	PUBH 631	Social and Behavioral Sciences in Public Health	3	6				1 year Gr SOM Public Health			
379	PUBH 641	Problem Investigations in Environmental Health	3	6				1 year Gr SOM Public Health			
380	PUBH 651	Risk Management in Health Care	3	6				2 year Gr SOM Public Health			
381	PUBH 682	Master's Project Implementation	12	24				2 year Gr SOM Public Health			
382	PUBH 698	Public Health Management	3	6				2 year Gr SOM Public Health			
SSH											
Academic Success Centre, Communication and Composition											
383	WCS 150	Rhetoric and Composition	3	6				GSB, SEDS, SMG, SSH, SoM			
384	WCS 210	Technical and Professional Writing	3	6	ASC 100 Advanced English for Academic Purposes (9234) (C- and above) OR Test "IELTS" BETWEEN 6.5 and 9 OR WCS 150/ASC 100 Advanced English for Academic Purposes (2183) (C- and above)		WCS 200 Introduction to Public Speaking (175) (D and above) OR WCS 220 Science Writing (5686) (D and above) OR WCS 230 Say What you Mean: Clarity, Precision, and Style in Academic Writing (3026) (D and above) OR WCS 240 Writing for Digital Media (4421) (D and above) OR WCS 250 Advanced Rhetoric and Composition (3027) (D and above) OR WCS 260/WLL 235 Creative Writing: Introduction to Fiction Writing I (4000) (D and above) OR WCS 270 Academic and Professional Presentations (8409) (D and above)	Chemical and Materials Engineering, Chemistry, Civil and Environmental Engineering, Electrical and Computer Engineering, Geology, Mechanical and Aerospace Engineering, Mining Engineering, Petroleum Engineering, Robotics Engineering	SEDS	SSH, SoM	

Area Studies												
385	EAS 502	Disciplinary Methodology	4	8				Eurasian Studies				
386	EAS 504	Thesis II	12.5	25	EAS 500 Introduction to Eurasia (1632) (C- and above) AND EAS 501 General Methodology (1633) (C- and above) AND EAS 502 Disciplinary Methodology (1379) (C- and above) AND EAS 503 Thesis I (2141) (C- and above)			Eurasian Studies				
387	EAS 505	Research and Fieldwork Practicum	4	8				Instructor's Permission Required. Registration through Add Course form only!				
388	EAS 511	Independent Study in Eurasian Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!				
389	EAS 512	Topics in Eurasian Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!				
390	EAS 513	Critical Issues in Eurasian Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!				
391	EAS 514	Topics in Eurasian Social Sciences	4	8				Instructor's Permission Required. Registration through Add Course form only!				
392	EAS 701	Critical Issues in Eurasian Studies	2	4				Instructor's Permission Required. Registration through Add Course form only!				
393	EAS 702	Elective in Eurasian Humanities	4	8				Instructor's Permission Required. Registration through Add Course form only!				
394	EAS 703	Elective in Eurasian Social Sciences	4	8				Instructor's Permission Required. Registration through Add Course form only!				
395	EAS 704	Elective 2 in Eurasian Humanities	4	8				Instructor's Permission Required. Registration through Add Course form only!				
396	EAS 705	Elective 2 in Social Sciences	4	8				Instructor's Permission Required. Registration through Add Course form only!				
397	EAS 709	Proseminar in Eurasian Social Sciences	4	8				Instructor's Permission Required. Registration through Add Course form only!				
398	EAS 710	Independent Study in Eurasian Studies	4	8				Instructor's Permission Required. Registration through Add Course form only!				
399	EAS 712	Doctoral Seminar in Eurasian Studies II	4	8				Eurasian Studies				
400	EAS 713	Qualifying Examination	0	0				Eurasian Studies				
401	EAS 720	Human Rights and Cultural Differences	4	8				Eurasian Studies				
402	EAS 800	Doctoral Thesis in Eurasian Studies	70	140								
403	EAS 800-0	Dissertation Research in Eurasian Studies	0	0				Eurasian Studies				
Chemistry												
404	CHEM 101	General Chemistry I	3	6				(ND-CC) Undeclared SSH, Chemistry, Undeclared SSH	Biological Sciences, SoM	SEDS, SMG, SSH		
405	CHEM 101L	General Chemistry I lab	1	2		CHEM 101 General Chemistry I (113) (C and above)		Chemistry	Biological Sciences, SoM	SEDS, SMG, SSH		
406	CHEM 102	General Chemistry II	3	6	CHEM 101 General Chemistry I (113) (C and above)			Chemistry	Biological Sciences, SoM	SEDS, SMG, SSH		
407	CHEM 105	Introduction to Environmental Science	3	6			CHEM 092 Survey of Environmental Sciences for Non-Science Majors (1149) (D+ and above)	(ND-CC) Undeclared SSH, Anthropology, Economics, History, Mathematics, Nursing, Physics, Political Science and International Relations, SEDS, SMG, Sociology, Undeclared SSH, World Languages, Literature and Culture				
408	CHEM 211	Organic Chemistry I	3	6	CHEM 102 General Chemistry II (232) (C and above)			Chemistry	Biological Sciences, SoM	SEDS, SMG, SSH		

409	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, SoM	SEDS, SMG, SSH	
410	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, SoM	SEDS, SMG, SSH	
411	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, SoM	SEDS, SMG, SSH	
412	CHEM 220L	Quantitative Chemical Analysis Lab	1	2	CHEM 101L General Chemistry I lab (179) (C and above)	CHEM 220 Quantitative Chemical Analysis (555) (C and above)		Chemistry	Biological Sciences	SEDS, SMG, SSH	
413	CHEM 250	Descriptive Inorganic Chemistry	3	6	CHEM 101 General Chemistry I (113) (C and above)			Chemistry	Biological Sciences		
414	CHEM 320	Instrumental Analysis	3	6	CHEM 220 Quantitative Chemical Analysis (555) (C and above)			Chemistry	Biological Sciences	SEDS, SMG, SSH	
415	CHEM 320L	Instrumental Analysis Lab	1	2	(CHEM 220 Quantitative Chemical Analysis (555) (C and above) AND CHEM 220L Quantitative Chemical Analysis Lab (5271) (C and above)) OR CHEM 220 Quantitative Chemical Analysis (555) (C and above)	CHEM 320 Instrumental Analysis (1055) (C and above)		Chemistry	Biological Sciences	SEDS, SMG, SSH	
416	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	SEDS, SMG, SSH	
417	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	SEDS, SMG, SSH	
418	CHEM 380	Research Methods	3	6				Chemistry			
419	CHEM 400	Chemistry Seminar	3	6	CHEM 380 Research Methods (636) (C and above)			Chemistry	Biological Sciences	SEDS, SMG, SSH	
420	CHEM 411	Advanced Organic Chemistry I	3	6	CHEM 212 Organic Chemistry II (443) (C and above) AND MATH 161 Calculus I (118) (C and above)			Chemistry	SEDS, SMG, SSH		
421	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	SEDS, SMG, SSH		
422	CHEM 433	Surfactants and Colloids	3	6	CHEM 102 General Chemistry II (232) (C and above)			Chemistry			

423	CHEM 451	Applied Homogenous Catalysis	3	6	CHEM 350 Advanced Inorganic Chemistry (1905) (C and above)			Chemistry	SEDS, SMG, SSH		
424	CHEM 489	Directed Research II	3	6	CHEM 488 Directed Research I (7174) (C and above)			Chemistry			
425	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	SSH	SEDS, SMG	
426	CHEM 511	Theoretical Chemistry	3	6	CHEM 510 Principles of Physical Chemistry (5266) (C and above)			Chemistry	SEDS, SMG, SSH		
427	CHEM 515	Applied Colloid and Surfactant Science	3	6				Chemistry	SEDS, SMG, SSH		
428	CHEM 532	Organometallic Chemistry	3	6	CHEM 530 Inorganic Structures and Reaction Mechanisms (5265) (C and above)			Chemistry	SEDS, SMG, SSH		
429	CHEM 540	Organic Reactions and Mechanisms	3	6				Chemistry	SEDS, SMG, SSH		
430	CHEM 550	Selected Topics in Chemistry	3	6				Chemistry			
431	CHEM 560	Directed research in chemistry	0	0				Chemistry			
432	CHEM 592	Chemistry Seminar	3	6				Chemistry			
433	CHEM 692	MSc Thesis in Chemistry	18	36	CHEM 691 Thesis Proposal (5858) (C- and above)			Chemistry			
434	CHEM 710	Mechanistic Principles of Organic Reactions	4	8				Chemistry	SEDS, SMG, SSH		
435	CHEM 731	Design of Functional Materials	4	8				Chemistry	SEDS, SMG, SSH		
436	CHEM 733	Colloid and Surfactant Science	4	8				Chemistry	SEDS, SMG, SSH		
437	CHEM 752	Materials Chemistry	4	8				Chemistry	SSH	SEDS, SMG	
438	CHEM 780	Research Methods and Ethics	3	6				Chemistry			
439	CHEM 798-0	Thesis Research	0	0				Chemistry			
Communication and Composition											
440	WCS 200	Introduction to Public Speaking	3	6	WCS 150/ASC 100 Advanced English for Academic Purposes (2183) (C- and above)			2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM	3 year UG SEDS, 3 year UG SMG, 3 year UG SSH		
441	WCS 205	Intercultural Communication	3	6				2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM	3 year UG SEDS, 3 year UG SMG, 3 year UG SSH		
442	WCS 230	Say What you Mean: Clarity, Precision, and Style in Academic Writing	3	6	WCS 150/ASC 100 Advanced English for Academic Purposes (2183) (C- and above)			2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM	3 year UG SEDS, 3 year UG SMG, 3 year UG SSH		
443	WCS 240	Writing for Digital Media	3	6	WCS 150/ASC 100 Advanced English for Academic Purposes (2183) (C- and above)			2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM	3 year UG SEDS, 3 year UG SMG, 3 year UG SSH		
444	WCS 250	Advanced Rhetoric and Composition	3	6	WCS 150/ASC 100 Advanced English for Academic Purposes (2183) (C- and above)			SEDS, SSH, SoM			
445	WCS 390	Writing Fellows I – Composition and Collaboration in Theory and Practice	3	6	WCS 150/ASC 100 Advanced English for Academic Purposes (2183) (B and above) AND (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 250 Advanced Rhetoric and Composition (3027) (B+ and above))			3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH			
446	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)			SEDS, SMG, SSH, SoM			
447	WCS 392	Writing Fellows III - Research & Practice in Writing & Peer Mentorship	3	6	WCS 391 Writing Fellows II – Practicum in Composition & Collaboration (3425) (B and above)			SEDS, SMG, SSH, SoM			

448	WCS 393	Internship: Undergraduate Writing Tutor I	3	6	WCS 392 Writing Fellows III - Research & Practice in Writing & Peer Mentorship (4472) (B and above)			SEDS, SMG, SSH, SoM			
449	WCS 394	Internship: Undergraduate Writing Tutor II	3	6	WCS 393 Internship: Undergraduate Writing Tutor I (7346) (P)			SEDS, SMG, SSH, SoM			
450	WCS 501	Science Communication	3	6				SSH			
451	WCS 590	Rhetoric and Writing Pedagogy Across the Discipline	4	8							
Communication and Composition, Languages, Literature and Linguistics											
452	WLL 235/WCS 260	Creative Writing: Introduction to Fiction Writing I	3	6	WCS 150/ASC 100 Advanced English for Academic Purposes (2183) (C- and above)			2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM	World Languages, Literature and Culture	SEDS, SMG, SSH	
453	WLL 462/WCS 462	Creative Nonfiction	3	6	WCS 260/WLL 235 Creative Writing: Introduction to Fiction Writing I (4000) (C and above)			World Languages, Literature and Culture	SSH		
454	WLL 469/WCS 469	Independent Study in Creative Writing	3	6				Instructor's Permission Required. Registration through Add Course form only!			
455	WLL 562/WCS 562	Creative Nonfiction	4	8				SSH	SEDS, SMG, SoM		
History, Philosophy and Religious Studies											
456	HST 100	History of Kazakhstan	3	6				4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation)	1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH	SEDS, SMG, SSH, SoM	
457	HST 123	Introduction to the History of Science and Technology	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, History	1 year UG SSH, 2 year UG SSH	SEDS, SMG, SSH, SoM	
458	HST 124	Introduction to the History of Medicine	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, History	1 year UG SSH, 2 year UG SSH	SEDS, SMG, SSH, SoM	
459	HST 331	The Eurasian Enlightenment	3	6	HST 100 History of Kazakhstan (172) (C- and above) OR Subject "HST" BETWEEN 100 and 199			3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), History	SSH	SEDS, SMG, SoM	
460	HST 345	Central Asia in the Persianate Sphere	3	6				3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), History	SSH	SEDS, SMG, SoM	
461	HST 399	Independent Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
462	HST 400	Research Assistance	1	2	HST 100 History of Kazakhstan (172) (B and above) AND Subject "HST" BETWEEN 100 and 499			Instructor's Permission Required. Registration through Add Course form only!			

463	HST 443	Imperial Apocalypse: 1917 and 1991 in Comparative Perspective	3	6	HST 100 History of Kazakhstan (172) (C- and above) AND Subject "HST" BETWEEN 200 and 299 AND Subject "HST" BETWEEN 300 and 399			3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), History	SSH	SEDS, SMG, SoM	
464	HST 499	History Capstone: Undergraduate Dissertation	4	8	HST 498 Directed Reading (1365) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
465	HST 543	Imperial Apocalypse: 1917 and 1991 in Comparative Perspective	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
466	HST 743	Imperial Apocalypse: 1917 and 1991 in Comparative Perspective	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
467	PHIL 141	Critical Thinking	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared	1 year UG SSH, 2 year UG SSH	SEDS, SMG, SSH, SoM	
468	PHIL 160	Philosophy of Religion	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared	1 year UG SSH, 2 year UG SSH	SEDS, SMG, SSH, SoM	
469	PHIL 207	Introduction to Islamic Philosophy and Theology	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared	1 year UG SSH, 2 year UG SSH	SEDS, SMG, SSH, SoM	
470	PHIL 210	Ethics	3	6				3 year UG SOM Medical Sciences, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	2 year UG SEDS, 2 year UG SMG, 2 year UG SSH Biological Sciences, 3 year UG SEDS, 3 year UG SMG, 3 year UG SSH	SEDS, SMG, SSH, SoM	
471	PHIL 232	Philosophy of Law	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared	1 year UG SSH, 2 year UG SSH	SEDS, SMG, SSH, SoM	
472	PHIL 314	Free Will and Moral Responsibility	3	6				3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)	SSH	SEDS, SMG, SoM	
473	PHIL 320	Truth, Knowledge and Belief	3	6				3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)	SSH	SEDS, SMG, SoM	
474	PHIL 360	Philosophy of Artificial Intelligence	3	6				3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)	SSH	SEDS, SMG, SoM	

475	PHIL 371	Aristotle's Theoretical Philosophy	3	6				3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)	SSH	SEDS, SMG, SoM	
History, Philosophy and Religious Studies, History, Philosophy and Religious Studies											
476	HST 110/REL 110	Introduction to World Religions	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, History	1 year UG SSH, 2 year UG SSH	SEDS, SMG, SSH, SoM	
477	HST 451/REL 451	Conversion to Islam in Medieval Central Asia	3	6	HST 100 History of Kazakhstan (172) (C- and above) AND Subject "HST" BETWEEN 200 and 499 OR Subject "REL" BETWEEN 200 and 499			3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), History	SSH	SEDS, SMG, SoM	
478	HST 551/REL 551	Conversion to Islam in Medieval Central Asia	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
479	HST 751/REL 751	Conversion to Islam in Medieval Central Asia	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
History, Philosophy and Religious Studies, Kazakh Language and Turkic Studies											
480	HST 552/TUR 552	Proseminar in Eurasian History, 552-1917	4	8				Eurasian Studies			
481	HST 752/TUR 752	Proseminar in Eurasian History, 552-1917	4	8				Eurasian Studies			
History, Philosophy and Religious Studies, Kazakh Language and Turkic Studies, Sociology and Anthropology											
482	HST 380/TUR 380/ANT 380	Linguistic and Cultural Diversity in Contemporary China: From Beijing to Xinjiang	3	6				Anthropology	History, Sociology	SEDS, SMG, SSH, SoM	
History, Philosophy and Religious Studies, Languages, Literature and Linguistics											
483	HST 245/WLL 245	Global History of Travel and Travel Literature	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, History	1 year UG SSH, 2 year UG SSH, World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
484	HST 274/WLL 274	Texts and Contexts	3	6				History, World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
485	HST 441/WLL 441	Utopias in Russian and Soviet Literature	3	6	Subject "HST" BETWEEN 200 and 299 OR Subject "HST" BETWEEN 300 and 399 OR Subject "WLL" BETWEEN 200 and 299 OR Subject "WLL" BETWEEN 300 and 399			History, World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
486	HST 541/WLL 541	Utopias in Russian and Soviet Literature	4	8				Eurasian Studies			
487	HST 741/WLL 741	Utopias in Russian and Soviet Literature	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
History, Philosophy and Religious Studies, Political Science and International Relations											

488	PHIL 431/PLS 420	Human Rights and Cultural Differences	3	6	Subject "PHIL" BETWEEN 100 and 199 OR Subject "PHIL" BETWEEN 200 and 299 OR Subject "PHIL" BETWEEN 300 and 399 OR Subject "PHIL" BETWEEN 400 and 499 OR Subject "" BETWEEN 100 and 199 OR Subject "" BETWEEN 200 and 299 OR Subject "" BETWEEN 300 and 399 OR Subject "" BETWEEN 400 and 499 OR PLS 120 Introduction to Political Theory (512) (C- and above) OR PLS 328/REL 328 Confucianism and the Development of Chinese Politics (2396) (C- and above) OR PLS 437 Nationalism and Multi-Ethnic Governance (99) (C- and above)			3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)	SSH	SEDS, SMG, SoM	
History, Philosophy and Religious Studies, Sociology and Anthropology											
489	ANT 215/REL 215	What is Islam? Anthropological Perspectives	3	6				Anthropology	History, Sociology	SEDS, SMG, SSH, SoM	
Kazakh Language and Turkic Studies											
490	KAZ 201	Academic Kazakh I	3	6	KAZ 150 Basic Kazakh (1215) (C- and above) OR KLL "[B1.2] Intermediate"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 1 year UG SOM, 4 year UG SEDS, 4 year UG SMG, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Business Administration (UG)	SEDS, SMG, SSH, SoM		
491	KAZ 202	Academic Kazakh II	3	6	KAZ 201 Academic Kazakh I (4561) (C- and above) OR KLL "[B2.2] Upper-Interm."			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 1 year UG SOM, 4 year UG SEDS, 4 year UG SMG, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Business Administration (UG)	SEDS, SMG, SSH, SoM		
492	KAZ 212	Academic Writing in Kazakh	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"		KAZ 304 Academic Writing in Kazakh (703) (C- and above) OR KAZ 303 Academic Speaking in Kazakh (702) (C- and above)	1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 1 year UG SOM, 4 year UG SEDS, 4 year UG SMG, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Business Administration (UG)	SEDS, SMG, SSH, SoM		
493	KAZ 300	Kazakh Studies in the Post-Colonial Era	3	6	KAZ 202 Academic Kazakh II (4562) (C and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	

494	KAZ 312	Kazakh discourse	3	6	KAZ 202 Academic Kazakh II (4562) (C and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	
495	KAZ 313	Kazakh for Business	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	
496	KAZ 349	Kazakh Mythology	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	
497	KAZ 350	Kazakh Literature	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 1 year UG SOM, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	

498	KAZ 351	Kazakh Short Stories	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 1 year UG SMG, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	
499	KAZ 357	Literature of Alash	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 1 year UG SMG, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	
500	KAZ 359	Professional Kazakh for Medicine	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SOM, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 1 year UG SMG, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	
501	KAZ 362	Creative Writing in Kazakh Language	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), Business Administration (UG)	1 year UG SEDS, 1 year UG SMG, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH	SEDS, SMG, SSH, SoM	
502	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 SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 1 year UG SMG, 2 year UG SSH, 3 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	

503	KAZ 368	Onomastics: History and Function of Names	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	
504	KAZ 371	Contemporary Kazakh Literature	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	
505	KAZ 372	Language and ethnicity	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	
506	KAZ 373	Kazakh Terminology	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	
507	KAZ 374	Kazakh Diplomacy	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	

508	KAZ 376	Language and Culture	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	
509	KAZ 377	Intercultural Communication through Film	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	
510	KAZ 378	Kazakh for Social Science	3	6	KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced"			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	
511	KAZ 410	Kazakh literature of the XV-XIX centuries	3	6	Subject "KAZ" BETWEEN 300 and 399 OR Subject "KAZ" BETWEEN 300 and 399			1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation)		Business Administration (UG), SEDS, SMG, SSH, SoM	
512	KFL 101	Elementary Kazakh as a Foreign Language I	4	8				Instructor's Permission Required. Registration through Add Course form only!			
513	KFL 102	Elementary Kazakh as a Foreign Language II	4	8	KFL 101 Elementary Kazakh as a Foreign Language I (4889) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
514	KFL 202	Intermediate Kazakh as a Foreign Language II	4	8	KFL 201 Intermediate Kazakh as a Foreign Language I (4887) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			

515	TUR 412	Advanced Turkish in Media and Politics	3	6				SEDS, SMG, SSH, SoM			
516	TUR 575	Advanced Topics in Turkic Studies	4	8							
Kazakh Language and Turkic Studies, Languages, Literature and Linguistics											
517	TUR 280/LING 280	Introduction to Turkic Historical and Comparative Linguistics	3	6				2 year UG SSH World Languages, Literatures and Cultures	World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
Languages, Literature and Linguistics											
518	CHN 101	Beginning Mandarin I	4	8				(ND-CC) Undeclared SSH, 2 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	3 year UG SSH World Languages, Literatures and Cultures	2 year UG SSH, 3 year UG SSH	
519	CHN 201	Intermediate Mandarin I	4	8	CHN 102 Beginning Mandarin II (1844) (C and above)			SSH	SEDS, SMG, SoM		
520	CHN 301	Upper Intermediate Chinese I	4	8	CHN 202 Intermediate Mandarin II (2678) (C and above)			SSH	SEDS, SMG, SoM		
521	DUT 101	Beginning Dutch I	4	8				(ND-CC) Undeclared SSH, 2 year UG SSH World Languages, Literatures and Cultures	3 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	2 year UG SSH	
522	DUT 102	Beginning Dutch II	4	8	DUT 101 Beginning Dutch I (7642) (C- and above)			SSH	SEDS, SMG, SoM		
523	FRE 101	Beginning French I	4	8				(ND-CC) Undeclared SSH, 2 year UG SSH World Languages, Literatures and Cultures	3 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	2 year UG SSH	
524	FRE 102	Beginning French II	4	8	FRE 101 Beginning French I (246) (C- and above)			SSH	SEDS, SMG, SoM		
525	FRE 201	Intermediate French I	4	8	FRE 102 Beginning French II (454) (C- and above)			SSH	SEDS, SMG, SoM		
526	GER 102	Beginning German II	4	8	GER 101 Beginning German (3173) (C- and above)			SSH	SEDS, SMG, SoM		
527	GER 201	Intermediate German I	4	8	GER 102 Beginning German II (3335) (C- and above)			SSH	SEDS, SMG, SoM		
528	GER 202	Intermediate German II	4	8	GER 201 Intermediate German I (3722) (C- and above)						
529	KOR 102	Beginning Korean II	4	8	KOR 101 Beginning Korean I (4672) (C- and above)			SSH	SEDS, SMG, SoM		
530	KOR 202	Intermediate Korean II	4	8	KOR 201 Intermediate Korean I (5059) (C- and above)			SSH	SEDS, SMG, SoM		
531	LING 130	Introduction to Language and Communication	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	2 year UG SSH Undeclared, Business Administration (UG), World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
532	LING 131	Introduction to Linguistics	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	2 year UG SSH Undeclared, Business Administration (UG), World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
533	LING 140	Language Variation and Change: the Story of English	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	2 year UG SSH Undeclared, Business Administration (UG), World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
534	LING 271	Introduction to Cognitive Linguistics	3	6	LING 131 Introduction to Linguistics (1394) (C and above)			(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
535	LING 273	Survey of Research Methods in Linguistics	3	6	LING 131 Introduction to Linguistics (1394) (C- and above)			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
536	LING 278	Sounds of the World’s Languages	3	6				2 year UG SSH World Languages, Literatures and Cultures	World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	

537	LING 374	Language Contact in Central Asia	3	6	LING 131 Introduction to Linguistics (1394) (C- and above)			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
538	LING 375	The Art and Science of Analyzing Languages: Morphosyntax of the World's Languages	3	6	LING 131 Introduction to Linguistics (1394) (C- and above)			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
539	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	SSH	SEDS, SMG, SoM	
540	LING 389	Discourse and Grammar	3	6	LING 131 Introduction to Linguistics (1394) (C and above)			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
541	LING 473	Advanced Empirical Methods in Linguistics	3	6	LING 131 Introduction to Linguistics (1394) (C and above)			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
542	LING 482	Language and Worldview	3	6	LING 131 Introduction to Linguistics (1394) (C and above) OR LING 272 Language and the Mind (1847) (C and above)			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
543	LING 531	Statistics and computational methods in Linguistics	4	8							
544	LING 573	Advanced Empirical Methods in Linguistics	4	8				Eurasian Studies			
545	LING 574	Language Contact in Central Asia	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
546	LING 589	Discourse and Grammar	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
547	LING 774	Language Contact in Central Asia	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
548	LING 782	Language and Worldview	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
549	PER 101	Beginning Persian I	4	8				(ND-CC) Undeclared SSH, 2 year UG SSH World Languages, Literatures and Cultures	3 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	2 year UG SSH	
550	PER 202	Intermediate Persian II	4	8	PER 201 Intermediate Persian 1 (4987) (C- and above)			SSH	SEDS, SMG, SoM		
551	POL 101	Beginning Polish	4	8				(ND-CC) Undeclared SSH, 2 year UG SSH World Languages, Literatures and Cultures	3 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	2 year UG SSH, 3 year UG SSH	
552	POL 102	Beginning Polish II	4	8	POL 101 Beginning Polish (7641) (C- and above)			SSH	SEDS, SMG, SoM		
553	RFL 156	Kazakhstan - history, culture, traditions, society, modernity	6	3				Instructor's Permission Required. Registration through Add Course form only!			
554	RFL 211	East in Soviet Russian-language culture: origin and fate	3	6				Instructor's Permission Required. Registration through Add Course form only!			
555	RFL 213	Soviet Everyday Life through Cinema	3	6				Instructor's Permission Required. Registration through Add Course form only!			
556	RFL 303	Intensive Advanced Russian	4	8				Instructor's Permission Required. Registration through Add Course form only!			
557	RFL 305	Academic Writing in Russian	3	6				Instructor's Permission Required. Registration through Add Course form only!			
558	RFL 312	Soviet Female Writers and Poets	3	6				Instructor's Permission Required. Registration through Add Course form only!			
559	RFL 469	International relations of Eurasia	3	6				Instructor's Permission Required. Registration through Add Course form only!			
560	SPA 102	Beginning Spanish II	4	8	SPA 101 Beginning Spanish I (685) (C- and above)			SSH	SEDS, SMG, SoM		
561	SPA 202	Intermediate Spanish II	4	8	SPA 201 Intermediate Spanish I (1475) (C- and above)			SSH	SEDS, SMG, SoM		

562	SPA 311	Colloquial Spanish	3	6	SPA 202 Intermediate Spanish II (1842) (C and above)			SSH	SEDS, SMG, SoM		
563	WLL 110	Introduction to Literary Studies	3	6				(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH	2 year UG SSH Undeclared, Business Administration (UG), World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
564	WLL 211	World Literature II: from the 18th to the 20th century	3	6				2 year UG SSH World Languages, Literatures and Cultures	World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
565	WLL 248	Survey of Soviet Literature and Culture	3	6				2 year UG SSH World Languages, Literatures and Cultures	World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
566	WLL 359	Terror and Perfection: Soviet Female Writers and Poets	3	6				World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
567	WLL 399	Independent Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
568	WLL 400	Research Assistance in Linguistics and Literature	1	2				Instructor's Permission Required. Registration through Add Course form only!			
569	WLL 412	Poetic Personae	3	6	Subject "WLL" BETWEEN 100 and 399			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
570	WLL 499	Languages, Linguistics, and Literatures Capstone II	3	6	WLL 498 Languages, Linguistics, and Literatures Capstone I (3048) (C- and above)			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	

571	WLL 751	The Call of the Evil: Unmasking the Villain(ness) in Popular Culture and Literature	3	6	WLL 201 World Literature I (686) (C+ and above) OR WLL 209 Introduction to Translation Studies (2178) (C+ and above) OR WLL 210 Migrants, Nomads and Exiles (217) (C+ and above) OR WLL 211 World Literature II: from the 18th to the 20th century (492) (C+ and above) OR WLL 212 Introduction to Poetry (2167) (C+ and above) OR WLL 213/SPA 211 Introduction to the Hispanic World (1030) (C+ and above) OR WLL 218 Renaissance in Italy and Beyond (6573) (C+ and above) OR WLL 219 Myth and Adaptation (2489) (C+ and above) OR WLL 220 Ancient World Literature (to 1650) (218) (C+ and above) OR WLL 221 Creative Writing/Theatre (245) (C+ and above) OR WLL 222 Acting: Praxis, Theory and History (3336) (C+ and above) OR WLL 231 Beginning and Intermediate Playwriting (1625) (C+ and above) OR WLL 240 Introduction to the Novel (687) (C+ and above) OR WLL 241 Survey of Folk Tales (466) (C+ and above) OR WLL 243 Western Theatre, Literature and History From Ancient Creece to 1800 (1082) (C+ and above) OR WLL 244 Survey of Nineteenth-Century Russian Literature (1395) (C+ and above) OR WLL 349 Terrible Perfection: Women in 19th-Century Russian Literature (2488) (C+ and above) OR WLL 246 Survey of Contemporary Russian Literature and Culture (3604) (C+ and above) OR WLL 247 Survey of East Asian Literature (1382) (C+ and above) OR WLL 248 Survey of Soviet Literature and Culture (3842) (C+ and above) OR WLL 250 From Page to Screen (472) (C+ and above) OR WLL 251 Hong Kong Cinema (3337) (C+ and above) OR WLL 253 Western Theatre Literature and History: 1800-Present (1396) (C+ and above) OR WLL 254/SPA 254 Superstition, Magical Realism, and Horror in Hispanic Culture (1851) (C+ and above) OR WLL 255 The Comic Book in Japan and America (1849) (C+ and above) OR WLL 257 Fan Culture in the Age of Convergence (2487) (C+ and above) OR WLL 291 Theatre Practicum (2168) (C+ and above)						
Languages, Literature and Linguistics, Languages, Literature and Linguistics											
572	SPA 351/WLL 351	Literature and Film of the Postcolonial World	3	6	Subject "WLL" BETWEEN 200 and 299			World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
Languages, Literature and Linguistics, Sociology and Anthropology											
573	WLL 271/ANT 275	Language and Society	3	6				Anthropology	Sociology, World Languages, Literature and Culture	SEDS, SMG, SSH, SoM	
Physics											

574	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 SEDS, 1 year UG SMG, 1 year UG SSH Physics	SEDS, SMG, SSH, SoM		
575	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)	1 year UG SEDS, 1 year UG SMG, 1 year UG SSH Physics	SEDS, SMG, SSH, SoM		
576	PHYS 202	Introductory Astrophysics	3	6	PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above)			5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Physics	SEDS, SMG, SSH, SoM		
577	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	SEDS, SMG, SSH, SoM		
578	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) OR CSCI 115 Programming Fundamentals (5257) (C- and above)) AND MATH 162 Calculus II (170) (C- and above)	MATH 273 Linear Algebra with Applications (84) (D and above)		Physics	SEDS, SMG, SSH, SoM		
579	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	SEDS, SMG, SSH, SoM		
580	PHYS 362	Classical Electrodynamics II	3	6	PHYS 361 Classical Electrodynamics I (651) (C- and above)			Physics	SEDS, SMG, SSH, SoM		
581	PHYS 370	Optics with Laboratory	4	8	PHYS 361 Classical Electrodynamics I (651) (C- and above)			Physics	SEDS, SMG, SSH, SoM		
582	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	SEDS, SMG, SSH, SoM		
583	PHYS 462	Field Theories in Physics	3	6	MATH 162 Calculus II (170) (C- and above) AND PHYS 221 Classical Mechanics I (652) (C- and above)	PHYS 451 Quantum Mechanics I (1415) (C- and above)		Physics	SEDS, SMG, SSH, SoM		
584	PHYS 470	Introduction to Optoelectronics	4	8	PHYS 261 Modern Physics with laboratory (125) (C- and above) OR PHYS 473 Introduction to Solid State Physics (1423) (C- and above) OR CHEM 331 Physical Chemistry I (634) (C- and above) OR MAE 301 Engineering Thermodynamics (5927) (C- and above) OR CHME 201 Chemical Engineering Thermodynamics (5007) (C- and above) OR ELCE 204 Solid State Devices (5508) (C- and above)			Physics	SEDS, SMG, SSH, SoM		
585	PHYS 483	Statistical Mechanics	3	6	PHYS 280 Thermodynamics and Statistical Physics (1179) (C- and above)			Physics	SEDS, SMG, SSH, SoM		
586	PHYS 491	Directed Study of Advanced Physics Topics	3	6				Instructor's Permission Required. Registration through Add Course form only!			

587	PHYS 499	Honors Thesis	3	6				Instructor's Permission Required. Registration through Add Course form only!			
588	PHYS 510	Quantum Mechanics	3	6				Physics	SEDS, SMG, SSH, SoM		
589	PHYS 511	Computational Modeling and Simulation	3	6				Physics	SEDS, SMG, SSH, SoM		
590	PHYS 520	Statistical Physics	3	6				Physics	SEDS, SMG, SSH, SoM		
591	PHYS 570	Introduction to Optoelectronics	4	8				Physics	SEDS, SMG, SSH, SoM		
592	PHYS 692	Thesis	21	42				Physics			
593	PHYS 700	Doctoral Thesis	90	180							
594	PHYS 700-0	Thesis Research	0	0				Physics			
595	PHYS 701	Current Research Literature	3	6				Physics			
596	PHYS 710	Quantum Mechanics	4	8				Physics	SEDS, SMG, SSH, SoM		
597	PHYS 711	Computational Modeling and Simulation	4	8				Physics	SEDS, SMG, SSH, SoM		
598	PHYS 715	Classical Electrodynamics	4	8							
599	PHYS 720	Statistical Physics	4	8				Physics	SEDS, SMG, SSH, SoM		
600	PHYS 730	Solid State Physics	4	8							
601	PHYS 765	Advanced Physics Laboratory	3	6							
Political Science and International Relations											
602	PLS 101	Introduction to Political Science	3	6				(ND-CC) Undeclared SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Undeclared SSH	Business Administration (UG), SEDS, SMG, SSH, SoM		
603	PLS 102	The Political Challenges of Technologies and Science: An Introduction	3	6				(ND-CC) Undeclared SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Undeclared SSH	Business Administration (UG), SEDS, SMG, SSH, SoM		
604	PLS 120	Introduction to Political Theory	3	6				(ND-CC) Undeclared SSH, Undeclared SSH	Business Administration (UG), SEDS, SMG, SSH, SoM		
605	PLS 140	Introduction to Comparative Politics	3	6				(ND-CC) Undeclared SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Undeclared SSH	Business Administration (UG), SEDS, SMG, SSH, SoM		
606	PLS 150	Introduction to International Relations	3	6				(ND-CC) Undeclared SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Undeclared SSH	Business Administration (UG), SEDS, SMG, SSH, SoM		
607	PLS 210	Political Science Research Methods	3	6				2 year UG SSH Political Sciences and International Relations, 3 year UG SSH Political Sciences and International Relations	Political Science and International Relations		
608	PLS 211	Quantitative Methods	3	6			ECON 211 Economic Statistics (2280) (C- and above)	2 year UG SSH Political Sciences and International Relations, 3 year UG SSH Political Sciences and International Relations	Political Science and International Relations		
609	PLS 312	Public Opinion and Elections	3	6	PLS 211 Quantitative Methods (221) (C- and above) OR ECON 211 Economic Statistics (2280) (C- and above)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
610	PLS 315	Political Game Theory	3	6	PLS 211 Quantitative Methods (221) (C- and above) OR ECON 101 Introduction to Microeconomics (379) (C and above)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
611	PLS 329	Anarchy	3	6	PLS 120 Introduction to Political Theory (512) (C- and above)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
612	PLS 341	Politics of Development	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	

613	PLS 345	Revolutions, Social Movements, and Contentious Politics	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
614	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)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
615	PLS 355	European Union: Institutions and Policies	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
616	PLS 356	International Politics of the Korean Peninsula	3	6	PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 150 Introduction to International Relations (511) (C- and above)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
617	PLS 361	Memory Politics in East Asia	3	6				3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
618	PLS 362	Science, Technology and International Affairs	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above)			3 year UG SSH Political Sciences and International Relations	Political Science and International Relations	SEDS, SMG, SSH, SoM	
619	PLS 392	Politics of China	3	6	PLS 210 Political Science Research Methods (129) (C- and above)			3 year UG SSH Political Sciences and International Relations	SEDS, SMG, SSH, SoM		
620	PLS 395	Independent Study	3	6	PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
621	PLS 435	Political Polarization in Democracies	3	6	PLS 140 Introduction to Comparative Politics (223) (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		SEDS, SMG, SSH, SoM	
622	PLS 439	Politics of the Internet	3	6				Political Science and International Relations		SEDS, SMG, SSH, SoM	
623	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		SEDS, SMG, SSH, SoM	
624	PLS 448	Comparative Electoral System	3	6	PLS 140 Introduction to Comparative Politics (223) (C- and above)			Political Science and International Relations		SEDS, SMG, SSH, SoM	
625	PLS 459	International Conflict Processes	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) OR PLS 211 Quantitative Methods (221) (C- and above)			Political Science and International Relations		SEDS, SMG, SSH, SoM	
626	PLS 463	NGO Politics	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		SEDS, SMG, SSH, SoM	
627	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		SEDS, SMG, SSH, SoM	
628	PLS 474	Public Choice and Public Policy	3	6	PLS 140 Introduction to Comparative Politics (223) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Political Science and International Relations		SEDS, SMG, SSH, SoM	
629	PLS 495	Research Practicum in PSIR	1	2	PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			

630	PLS 496	Research Practicum in PSIR	1	2	PLS 210 Political Science Research Methods (129) (C- and above) OR PLS 211 Quantitative Methods (221) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
631	PLS 511	Advanced Research I	4	8				Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
632	PLS 520	Human Rights and Cultural Differences	4	8				Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
633	PLS 539	Politics of the Internet	4	8				Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
634	PLS 540	Core Seminar in Comparative Politics	4	8				Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
635	PLS 548	Comparative Electoral System	4	8				Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
636	PLS 551	Advanced Topics in International Relations	4	8							
637	PLS 559	International Conflict Processes	4	8	PLS 550 Core Seminar in IR (1372) (C- and above) AND PLS 511 Qualitative Methods in Political Science (1631) (C- and above)			Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
638	PLS 563	NGO Politics	4	8				Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
639	PLS 569	International Relations of Eurasia	4	8				Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
640	PLS 574	Public Choice and Public Policy	4	8				Political Science and International Relations	Eurasian Studies, GSPP	GSB, GSE, SEDS, SSH	
641	PLS 581	Independent Study in Political Science	4	8				Instructor's Permission Required. Registration through Add Course form only!			
642	PLS 596	Thesis Preparation	2	4	Subject "PLS" BETWEEN 500 and 599			Political Science and International Relations			
643	PLS 599	MA Thesis II	10	20				Political Science and International Relations			
644	PLS 710	Quantitative Research Methods	4	8							
645	PLS 714	Qualitative Research Methods	4	8							
646	PLS 716	Experimental Political Science	4	8							
647	PLS 717	Scientific Research in Political Science	4	8							
648	PLS 724	Issues in the Philosophy of Social Science	4	8							
649	PLS 739	Politics of the Internet	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
650	PLS 740	Core Seminar in Comparative Politics	4	8							
651	PLS 750	Core Seminar in IR	4	8							
652	PLS 752	The United Nations System	4	8							
653	PLS 759	International Conflict Processes	4	8				Eurasian Studies		GSB, GSE, SEDS, SSH	
654	PLS 763	NGO Politics	4	8				Eurasian Studies	GSB, GSE, GSPP, SEDS, SMG, SSH, SoM		
SSH											
655	SSH 300	School of Sciences and Humanities Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
656	SSH 301	School of Sciences and Humanities Internship: Second Experience	3	6				Instructor's Permission Required. Registration through Add Course form only!			
657	SSH 398	Independent Study	1	2							
Sociology and Anthropology											
658	ANT 110	Introduction to Sociocultural Anthropology	3	6				(ND-CC) Undeclared SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Anthropology, Undeclared SEDS, Undeclared SMG, Undeclared SSH	2 year UG SSH, 3 year UG SSH Biological Sciences, SoM, Sociology	Business Administration (UG), SEDS, SMG, SSH	

659	ANT 160	Introduction to Biological Anthropology	3	6			ANT 361 Human Evolution: Bones, Stones and Genomes (160) (C- and above)	(ND-CC) Undeclared SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Anthropology, Undeclared SEDS, Undeclared SMG, Undeclared SSH	2 year UG SSH, 3 year UG SSH Biological Sciences, SoM, Sociology	Business Administration (UG), SEDS, SMG, SSH	
660	ANT 270	Anthropology of Warfare	3	6				Anthropology	Sociology	SEDS, SMG, SSH, SoM	
661	ANT 286	Nomads: Around the world and through time	3	6				Anthropology	Sociology	SEDS, SMG, SSH, SoM	
662	ANT 331	Archaeology of Power and Inequality	3	6				Anthropology	Sociology	SEDS, SMG, SSH, SoM	
663	ANT 398	Independent Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
664	ANT 399	Special Topics in Anthropology	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
665	ANT 420	Materiality and Eurasian Society	3	6	Subject "ANT" BETWEEN 200 and 399 OR Subject "ANT" BETWEEN 200 and 399 OR Subject "SOC" BETWEEN 200 and 399 OR Subject "SOC" BETWEEN 200 and 399			Anthropology	Sociology	SEDS, SMG, SSH, SoM	
666	ANT 440	Skeletal Materials for Archaeologists	3	6	Subject "ANT" BETWEEN 100 and 199 OR Subject "ANT" BETWEEN 100 and 199 OR Subject "BIOL" BETWEEN 100 and 199 OR Subject "BIOL" BETWEEN 100 and 199			Anthropology	Biological Sciences, Sociology	SEDS, SMG, SSH, SoM	
667	ANT 481	Anthropology of Entrepreneurship	3	6	ANT 110 Introduction to Sociocultural Anthropology (501) (C- and above)			Anthropology	Sociology	SEDS, SMG, SSH, SoM	
668	ANT 499	Capstone Seminar II	3	6	ANT 498 Capstone Seminar I (2965) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			
669	ANT 540	Skeletal Materials for Archaeologists	4	8				Eurasian Studies			
670	ANT 581	Anthropology of Entrepreneurship	4	8				Eurasian Studies			
671	ANT 781	Anthropology of Entrepreneurship	4	8				Eurasian Studies			
672	PLS 204/ANT 204	Capitalism in Crisis	3	6				5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Anthropology	2 year UG SSH, 3 year UG SSH Biological Sciences, Political Science and International Relations, Sociology	SEDS, SMG, SSH, SoM	
673	SOC 101	Introduction to Sociology	3	6				(ND-CC) Undeclared SSH, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Sociology, Undeclared SEDS, Undeclared SMG, Undeclared SSH	2 year UG SSH, 3 year UG SSH Biological Sciences, Anthropology, SoM	Business Administration (UG), SEDS, SMG, SSH	
674	SOC 201	Social Science Research Methods	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
675	SOC 203	Quantitative Methods in Sociology	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
676	SOC 210	Gender and Society	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	

677	SOC 213	Work and Society	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
678	SOC 221	International Migration	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
679	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)			4 year UG SSH Sociology, 5 year UG SSH Sociology	3 year UG SSH Sociology	Anthropology, Sociology	
680	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)			3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
681	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)			3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
682	SOC 320	Organized Crime and Corruption	3	6	SOC 101 Introduction to Sociology (508) (C- and above)			3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
683	SOC 322	Digital Media Research Methods	3	6	SOC 201 Social Science Research Methods (1341) (C- and above) OR SOC 203 Quantitative Methods in Sociology (1377) (C- and above) OR ECON 211 Economic Statistics (2280) (C- and above) OR PLS 210 Political Science Research Methods (129) (C- and above)			3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
684	SOC 400	Research Assistance in Sociology	1	2				Instructor's Permission Required. Registration through Add Course form only!			
685	SOC 401	Research Assistance in Sociology	1	2				Instructor's Permission Required. Registration through Add Course form only!			
686	SOC 402	Research Assistance in Sociology	1	2				Instructor's Permission Required. Registration through Add Course form only!			
687	SOC 410	Violence Against Women: An Intersectional Approach	3	6	Subject "SOC" BETWEEN 200 and 299 OR Subject "SOC" BETWEEN 200 and 299 OR Subject "SOC" BETWEEN 300 and 399 OR Subject "SOC" BETWEEN 300 and 399			4 year UG SSH Sociology, 5 year UG SSH Sociology	3 year UG SSH Sociology	Anthropology, Sociology	
688	SOC 416	Sociology of Punishment	3	6	SOC 301 Classical Sociological Theory (683) (C- and above)			4 year UG SSH Sociology, 5 year UG SSH Sociology	3 year UG SSH Sociology	Anthropology, Sociology	
689	SOC 420	Applied Policy Analysis: Tools and Perspectives	3	6	SOC 101 Introduction to Sociology (508) (C and above)			4 year UG SSH Sociology, 5 year UG SSH Sociology	3 year UG SSH Sociology	Anthropology, Sociology	
690	SOC 425	Modern Sociological Theory	3	6	SOC 301 Classical Sociological Theory (683) (C and above)			4 year UG SSH Sociology, 5 year UG SSH Sociology	3 year UG SSH Sociology	Anthropology, Sociology	
691	SOC 499	Capstone Seminar II	3	6	SOC 498 Capstone Seminar Part I (3043) (C- and above)			Instructor's Permission Required. Registration through Add Course form only!			

692	SOC 511	Citizenship in Eurasia: Political Sociology of Civic Belonging	4	8							
Sociology and Anthropology, Sociology and Anthropology											
693	ANT 214/SOC 214	Qualitative Methods	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
694	ANT 222/SOC 222	Approaches to Global Development	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
695	ANT 386/SOC 386	Social Challenges of Climate Change	3	6				3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology	Anthropology, Sociology	SEDS, SMG, SSH, SoM	
SEDS											
Civil and Environmental Engineering											
696	DCEE 700	Thesis Research	89	178							
Computer Science											
697	SEDS 502	Teaching Practicum	3	6				Computer Science, Data Science, Robotics			
Electrical and Computer Engineering											
698	DELCE 700	Thesis Research	89	178							
SoE											
Chemical and Materials Engineering											
699	CHME 202	Fluid Mechanics	3	6				2 year UG SEDS Chemical and Materials Engineering	3 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Chemical and Materials Engineering		
700	CHME 203	Organic and Polymer Chemistry	3	6	CHME 222 Inorganic and Analytical Chemistry (5039) (D and above)			2 year UG SEDS Chemical and Materials Engineering	3 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Chemical and Materials Engineering		
701	CHME 303	Separation Processes	3	6	CHME 200 Basic Principles and Calculations in Chemical Engineering (5038) (D and above) AND CHME 201 Chemical Engineering Thermodynamics (5007) (D and above)			3 year UG SEDS Chemical and Materials Engineering	4 year UG SEDS Chemical and Materials Engineering		
702	CHME 304	Chemical Reaction Engineering	3	6	CHME 200 Basic Principles and Calculations in Chemical Engineering (5038) (D and above)			3 year UG SEDS Chemical and Materials Engineering	4 year UG SEDS Chemical and Materials Engineering		
703	CHME 305L	Chemical Engineering Laboratory I	3	6	CHME 201 Chemical Engineering Thermodynamics (5007) (D and above) AND CHME 202 Fluid Mechanics (5543) (D and above) AND CHME 300 Heat and Mass Transfer (5952) (D and above)			3 year UG SEDS Chemical and Materials Engineering	4 year UG SEDS Chemical and Materials Engineering		
704	CHME 352	Research Practice	3	6				3 year UG SEDS Chemical and Materials Engineering	4 year UG SEDS Chemical and Materials Engineering		
705	CHME 402	Materials Chemistry	3	6				4 year UG SEDS Chemical and Materials Engineering			
706	CHME 403	Chemical Process Control and Safety	3	6				4 year UG SEDS Chemical and Materials Engineering			
707	CHME 421	Tissue Engineering	3	6				4 year UG SEDS Chemical and Materials Engineering	3 year UG SEDS Chemical and Materials Engineering		

708	CHME 454	Transport Phenomena and Operations	3	6				4 year UG SEDS Chemical and Materials Engineering			
709	CHME 461	Powder technology	3	6				4 year UG SEDS Chemical and Materials Engineering	3 year UG SEDS Chemical and Materials Engineering		
710	DCHME 700	Thesis Research	89	178							
711	DCHME 700-0	Thesis Research	0	0				Chemical Engineering			
712	DCHME 701	Current Research Literature	4	8				Chemical Engineering			
713	DCHME 752	Polymer Melt Fluid Mechanics and Processing	4	8				Chemical Engineering			
714	DCHME 757	Advanced Chemical Engineering Thermodynamics	4	8				Chemical Engineering			
715	DCHME 763	Advanced Heat and Mass Transfer	4	8				Chemical Engineering			
716	MBME 600	Research Seminar	3	6				Biomedical Engineering			
717	MBME 602	Master Thesis II	12	24	MBME 601 Master Thesis I (5953) (P)			Biomedical Engineering			
718	MBME 607	Advanced Tissue Engineering	3	6				Biomedical Engineering			
719	MBME 700	Strategies for Controlled Topical Delivery of Drugs	3	6				Biomedical Engineering			
720	MBME 708	Biomedical Imaging	3	6				Biomedical Engineering			
721	MCHME 600	Research Seminar	3	6				Chemical and Materials Engineering			
722	MCHME 602	MSc Thesis II	12	24				Chemical and Materials Engineering			
723	MCHME 606	Advanced Heat and Mass Transfer	3	6				Chemical and Materials Engineering			
724	MCHME 701	Advanced Chemical Thermodynamics	3	6				Chemical and Materials Engineering			
725	MCHME 707	Polymer Melt Fluid Mechanics and Processing	3	6				Chemical and Materials Engineering			
726	MCHME 713	Advanced Energy Materials and their Applications	3	6				Chemical and Materials Engineering			
Civil Engineering											
727	MSC 600	Research Methods and Ethics	3	6				SEDS	SMG		
Civil Engineering, Communication and Composition											
728	MSC 601	Technical Communication	3	6				1 year Gr SEDS Biomedical Engineering, 1 year Gr SEDS Chemical and Materials Engineering, 1 year Gr SEDS Civil and Environmental Engineering, 1 year Gr SEDS Computer Science, 1 year Gr SEDS Electrical and Computer Engineering, 1 year Gr SEDS Mechanical and Aerospace Engineering, 1 year Gr SEDS Robotics	SMG	SEDS	
Civil and Environmental Engineering											
729	CEE 202	Environmental Engineering	3	6	CEE 201 Environmental Chemistry (4999) (D and above)			2 year UG SEDS Civil and Environmental Engineering	3 year UG SEDS Civil and Environmental Engineering	4 year UG SEDS Civil and Environmental Engineering	
730	CEE 203	Structural Analysis	3	6	MAE 200 Structural Mechanics I (5010) (D and above) OR CEE 200 Structural Mechanics I (5005) (D and above)			2 year UG SEDS Civil and Environmental Engineering	3 year UG SEDS Civil and Environmental Engineering	4 year UG SEDS Civil and Environmental Engineering	
731	CEE 301	Structural Design – Steel	3	6	CEE 203 Structural Analysis (5500) (D and above)			3 year UG SEDS Civil and Environmental Engineering	4 year UG SEDS Civil and Environmental Engineering		

732	CEE 303	Geotechnical Design	3	6	CEE 302 Geotechnical Engineering (5896) (D and above)			3 year UG SEDS Civil and Environmental Engineering	4 year UG SEDS Civil and Environmental Engineering		
733	CEE 305	Hydraulics and Hydrology	3	6	MAE 300 Fluid Mechanics I (5926) (D and above) OR EME 275 Fluid Mechanics I (1988) (D and above) OR CEE 304 Fluid Mechanics (6348) (D and above)			3 year UG SEDS Civil and Environmental Engineering	4 year UG SEDS Civil and Environmental Engineering		
734	CEE 350	Water and Wastewater Treatment Processes	3	6	CEE 201 Environmental Chemistry (4999) (D and above) AND CEE 202 Environmental Engineering (5499) (D and above)			3 year UG SEDS Civil and Environmental Engineering	4 year UG SEDS Civil and Environmental Engineering		
735	CEE 400	Transportation Engineering	3	6	CEE 204 Civil Engineering CAD and Surveying (5002) (D and above)			3 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Civil and Environmental Engineering	5 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering (pending graduation)		
736	CEE 454	Foundation Engineering	3	6	ECE 306 Geotechnical Design (1043) (D and above) OR CEE 303 Geotechnical Design (6158) (D and above)			4 year UG SEDS Civil and Environmental Engineering	5 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering (pending graduation)		
737	CEE 457	Air Quality Management	3	6				4 year UG SEDS Civil and Environmental Engineering	5 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering (pending graduation)		
738	CEE 458	Modern Information Technology in Construction	3	6	CEE 204 Civil Engineering CAD and Surveying (5002) (D and above)			3 year UG SEDS Civil and Environmental Engineering	4 year UG SEDS Civil and Environmental Engineering		
739	CEE 463	Individual Research Project in Civil & Environmental Engineering 1	3	6				4 year UG SEDS Civil and Environmental Engineering	5 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering (pending graduation)		
740	CEE 466	Introduction to Finite Element Methods	3	6	CEE 200 Structural Mechanics I (5005) (D and above)			4 year UG SEDS Civil and Environmental Engineering	5 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering (pending graduation)		
741	CEE 469	Pavement Materials	3	6	CEE 302 Geotechnical Engineering (5896) (D and above) OR CEE 306 Civil Engineering Materials (5897) (D and above)			4 year UG SEDS Civil and Environmental Engineering			
742	DCEE 700-0	Thesis Research	0	0				Civil Engineering	SEDS		
743	DCEE 701	Current Research Literature	4	8				1 year PhD SEDS Civil Engineering			
744	DCEE 751	Structural Dynamics and Earthquake Engineering	4	8				1 year PhD SEDS Civil Engineering	2 year PhD SEDS Civil Engineering		
745	DCEE 768	Advanced Wastewater Treatment	4	8				1 year PhD SEDS Civil Engineering	2 year PhD SEDS Civil Engineering		
746	DCEE 769	Sustainable Development	4	8							
747	DCEE 771	Soil Improvement and Stabilization	4	8				1 year PhD SEDS Civil Engineering	2 year PhD SEDS Civil Engineering		
748	EMEM 509	Systems Engineering	3	6				Engineering Management			

749	EMEM 542	Production and Service Operations Management	3	6				Engineering Management			
750	EMEM 550	Capstone Project II	5	10				Engineering Management			
751	EMEM 551	Digital Transformation and Disruption	3	6				2 year Gr SEDS Engineering Management	1 year Gr SEDS Engineering Management		
752	MCEE 600	Research Seminar	3	6				Civil and Environmental Engineering			
753	MCEE 602	MSc Thesis II	12	24				Civil and Environmental Engineering			
754	MCEE 700	Structural Dynamics and Earthquake Engineering	3	6				Civil and Environmental Engineering			
755	MCEE 711	Soil Improvement and Stabilization	3	6				Civil and Environmental Engineering			
756	MCEE 714	Advanced Wastewater Treatment	3	6				Civil and Environmental Engineering			
757	MCEE 715	Sustainable Construction and Development	3	6				Civil and Environmental Engineering			
Electrical and Computer Engineering											
758	DELCE 700-0	Thesis Research	0	0				Electrical Engineering, SEDS			
759	DELCE 701	Current Research Literature	4	8				Electrical Engineering, SEDS			
760	DELCE 759	Advanced Pattern Recognition and Machine Learning	4	8				Electrical Engineering, SEDS			
761	DELCE 763	Advanced Electronic Circuits	4	8				Electrical Engineering, SEDS			
762	DELCE 764	Advanced Semiconductor Process Engineering for VLSI	4	8				Electrical Engineering	SEDS		
763	ELCE 201	Circuits Theory II	3	6	ELCE 200 Introduction to Electrical Circuits (4991) (C- and above)			2 year UG SEDS Electrical and Computer Engineering	3 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
764	ELCE 201L	Circuit Theory Laboratory	1	2		ELCE 201 Circuit Theory (5507) (D and above)		2 year UG SEDS Electrical and Computer Engineering	3 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
765	ELCE 202	Digital Logic Design	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) AND ENG 101 Programming for Engineers (4517) (C- and above)			2 year UG SEDS Electrical and Computer Engineering	3 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
766	ELCE 202L	Digital Logic Design Laboratory	1	2		ELCE 202 Digital Logic Design (4992) (D and above)		2 year UG SEDS Electrical and Computer Engineering	3 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
767	ELCE 300	Microprocessor Systems	3	6	ELCE 202 Digital Logic Design (4992) (C- and above)			3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
768	ELCE 300L	Microprocessor Systems Laboratory	1	2		ELCE 300 Microprocessor Systems (6183) (C- and above)		3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
769	ELCE 302	Electric Machines	3	6	ELCE 201 Circuit Theory (5507) (C- and above)			3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
770	ELCE 302L	Electrical Machines Laboratory	1	2	ELCE 201 Circuit Theory (5507) (C- and above)	ELCE 302 Electric Machines (5919) (C- and above)		3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
771	ELCE 303	Power System Analysis	3	6	ELCE 200 Introduction to Electrical Circuits (4991) (C- and above)			3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
772	ELCE 305	Data Structures and Algorithms	3	6	CSCI 151 Programming for Scientists and Engineers (192) (C- and above) OR ENG 101 Programming for Engineers (4517) (C- and above)			3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	

773	ELCE 308	Communication Systems	3	6	ELCE 203 Signals and Systems (4993) (C- and above)			3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
774	ELCE 311	Interdisciplinary Design Project	3	6			ENG 400 Capstone Project (6385) (C- and above)	3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
775	ELCE 350	Electromagnetics I	3	6	PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) AND ENG 200 Engineering Mathematics III (Differential Equations and Linear Algebra) (5009) (C- and above) AND ELCE 200 Introduction to Electrical Circuits (4991) (C- and above)			3 year UG SEDS Electrical and Computer Engineering	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
776	ELCE 352	Applied Simulation Laboratory	2	4	ELCE 200 Introduction to Electrical Circuits (4991) (D+ and above)			4 year UG SEDS Electrical and Computer Engineering	3 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
777	ELCE 403	Introduction to Adaptive Signal Processing	3	6	ELCE 307 Digital Signal Processing (5921) (C- and above)			5 year UG SEDS Electrical and Computer Engineering, 5 year UG SEDS Electrical and Computer Engineering (pending graduation)	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
778	ELCE 455	Machine Learning with Python	3	6	ENG 101 Programming for Engineers (4517) (C- and above) OR CSCI 151 Programming for Scientists and Engineers (192) (C- and above)			4 year UG SEDS Electrical and Computer Engineering, SMG	3 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
779	ELCE 458	Numerical Optimization Techniques and Computer Applications	3	6	ENG 200 Engineering Mathematics III (Differential Equations and Linear Algebra) (5009) (C- and above)			5 year UG SEDS Electrical and Computer Engineering, 5 year UG SEDS Electrical and Computer Engineering (pending graduation)	4 year UG SEDS Electrical and Computer Engineering	SEDS	
780	ELCE 459	Design of Application Specific Electronic Circuits	3	6	ELCE 301 Electronic Circuits (5918) (C- and above)			5 year UG SEDS Electrical and Computer Engineering, 5 year UG SEDS Electrical and Computer Engineering (pending graduation)	4 year UG SEDS Electrical and Computer Engineering	SEDS	
781	ELCE 461L	Industrial Automation Laboratory	1	2		ELCE 461 Industrial Automation (7020) (D and above)		4 year UG SEDS Electrical and Computer Engineering	SMG	Electrical and Computer Engineering	
782	ELCE 468	Robots For Rehabilitation	3	6				5 year UG SEDS Electrical and Computer Engineering, 5 year UG SEDS Electrical and Computer Engineering (pending graduation)	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
783	ELCE 469	Microfluidics Fundamentals and Applications	3	6	PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) AND MATH 162 Calculus II (170) (C- and above)			4 year UG SEDS Electrical and Computer Engineering	3 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
784	ELCE 470	Optical Communications	3	6	ELCE 203 Signals and Systems (4993) (C- and above)			5 year UG SEDS Electrical and Computer Engineering, 5 year UG SEDS Electrical and Computer Engineering (pending graduation)	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	
785	ELCE 486	Photonics for Engineering	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)			5 year UG SEDS Electrical and Computer Engineering, 5 year UG SEDS Electrical and Computer Engineering (pending graduation)	4 year UG SEDS Electrical and Computer Engineering	Electrical and Computer Engineering	

786	ENG 101	Programming for Engineers	3	6			CSCI 151 Programming for Scientists and Engineers (192) (F) OR CSCI 111 Web Programming and Problem Solving (110) (F) OR CSCI 115 Programming Fundamentals (5257) (F) OR CSCI 152 Performance and Data Structures (489) (F) OR CSCI 408 Senior Project I (1481) (F) OR CSCI 409 Senior Project II (1483) (F)	2 year UG SMG	3 year UG SMG, 4 year UG SMG	SEDS	
787	MECE 600	Research Seminar	3	6				1 year Gr SEDS Electrical and Computer Engineering	2 year Gr SEDS Electrical and Computer Engineering	SEDS	
788	MECE 602	Master Thesis II	12	24				2 year Gr SEDS Electrical and Computer Engineering	1 year Gr SEDS Electrical and Computer Engineering		
789	MECE 608	Energy Systems Operations and Planning	3	6				1 year Gr SEDS Electrical and Computer Engineering	2 year Gr SEDS Electrical and Computer Engineering	SEDS	
790	MECE 707	Advanced Electronic Circuits	3	6				2 year Gr SEDS Electrical and Computer Engineering	1 year Gr SEDS Electrical and Computer Engineering	SEDS	
791	MECE 717	Pattern Recognition and Machine Learning	3	6				2 year Gr SEDS Electrical and Computer Engineering	1 year Gr SEDS Electrical and Computer Engineering	SEDS	
792	MECE 729	Convex Optimization	3	6				2 year Gr SEDS Electrical and Computer Engineering	1 year Gr SEDS Electrical and Computer Engineering	SEDS	
793	MECE 730	Microfluidic Devices	3	6				2 year Gr SEDS Electrical and Computer Engineering	1 year Gr SEDS Electrical and Computer Engineering	SEDS	
794	MECE 732	Optical Communications	3	6				2 year Gr SEDS Electrical and Computer Engineering	1 year Gr SEDS Electrical and Computer Engineering	SEDS	
Geosciences											
795	GEOL 101	Fundamentals of Geology	3	6				1 year UG SMG	2 year UG SMG		
796	GEOL 103	Introduction to Geology	3	6				3 year UG SEDS, 3 year UG SSH, 4 year UG SEDS, 4 year UG SSH			
797	GEOL 204	Sedimentology and strartigraphy	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above) AND GEOL 202 Geologic Maps and Cross-Sections (5123) (D and above)			2 year UG SMG Geology	3 year UG SMG Mining Engineering		
798	GEOL 205	Paleontology	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above)			2 year UG SMG Geology	2 year UG SMG Mining Engineering		
799	GEOL 301	Igneous and metamorphic petrology	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above)			2 year UG SMG Geology			

800	GEOL 304	Geophysics	3	6	GEOL 204 Sedimentology and strartigraphy (5475) (D and above)			3 year UG SMG Geology			
801	GEOL 306	Geodynamics	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above)			3 year UG SMG Geology	4 year UG SMG Petroleum Engineering		
802	GEOL 307	Geographic Information Systems	3	6				3 year UG SMG Geology			
803	GEOL 308	Environmental Geochemistry	3	6				3 year UG SEDS, 3 year UG SSH, 4 year UG SEDS, 4 year UG SSH			
804	GEOL 309	Hydrogeology	3	6				3 year UG SMG Geology, 4 year UG SMG Geology			
805	GEOL 403	Geostatistics	3	6	MATH 161 Calculus I (118) (C- and above)			4 year UG SMG Geology	4 year UG SMG Mining Engineering, 4 year UG SMG Petroleum Engineering		
806	GEOL 405	Research Project II	3	6	GEOL 404 Research Project I (6423) (C- and above)			4 year UG SMG Geology			
807	GEOL 411	Photography for Geosciences	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above)			4 year UG SMG Geology	4 year UG SMG Petroleum Engineering		
808	GEOL 506	Advanced Petrology	3	6				1 year Gr SMG Geosciences			
809	GEOL 507	Exploration Geoscience	3	6				1 year Gr SMG Geosciences			
810	GEOL 508	Advanced Structural Geology and Microtectonics	3	6				1 year Gr SMG Geosciences			
811	GEOL 615	Integrated Geoscience and Engineering for Exploration and Energy System Transition	3	6				Instructor's Permission Required. Registration through Add Course form only!			
Mechanical and Aerospace Engineering											
812	DMAE 700-0	Thesis Research	0	0				Mechanical Engineering			
813	DMAE 702	Current Research Literature	4	8				Mechanical Engineering			
814	DMAE 703	Numerical Techniques for Engineers	4	8				Mechanical Engineering	SEDS		
815	DMAE 704	Rocket Propulsion Fundamentals	4	8				Mechanical Engineering			
816	DMAE 750	Advanced Statistics and Probability	4	8			MSC 615 Advanced Statistics and Probability (2394) (B- and above)	Mechanical Engineering	SEDS		
817	DMAE 769	Advanced Computational Fluid Dynamics and Heat Transfer in Mechanical Engineering	4	8				Mechanical Engineering	SEDS		
818	DMAE 771	Space Flight Dynamics	4	8				Mechanical Engineering	SEDS		
819	ENG 102	Engineering Materials I	3	6				(ND-CC) Civil and Environmental Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering	2 year UG SEDS Civil and Environmental Engineering, 2 year UG SEDS Mechanical and Aerospace Engineering, 3 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
820	ENG 103	Engineering Materials II	3	6				1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Electrical and Computer Engineering	SEDS		

821	ENG 201	Applied Probability and Statistics	3	6	MATH 162 Calculus II (170) (C- and above)			2 year UG SEDS Chemical and Materials Engineering, 2 year UG SEDS Civil and Environmental Engineering, 2 year UG SEDS Electrical and Computer Engineering, 2 year UG SEDS Mechanical and Aerospace Engineering	3 year UG SEDS Chemical and Materials Engineering, 3 year UG SEDS Civil and Environmental Engineering, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Mechanical and Aerospace Engineering		
822	ENG 202	Numerical Methods in Engineering	3	6	ENG 200 Engineering Mathematics III (Differential Equations and Linear Algebra) (5009) (D and above)			2 year UG SEDS Chemical and Materials Engineering, 2 year UG SEDS Civil and Environmental Engineering, 2 year UG SEDS Electrical and Computer Engineering, 2 year UG SEDS Mechanical and Aerospace Engineering	3 year UG SEDS Chemical and Materials Engineering, 3 year UG SEDS Civil and Environmental Engineering, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Mechanical and Aerospace Engineering		
823	ENG 400	Capstone Project	3	6				4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering			
824	MAE 205	Material and Manufacturing I	3	6				2 year UG SEDS Mechanical and Aerospace Engineering	3 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
825	MAE 206	Engineering Dynamics I	3	6				2 year UG SEDS Mechanical and Aerospace Engineering	3 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
826	MAE 302	Machine Elements Design	3	6	MAE 205 Material and Manufacturing I (5534) (D and above)			3 year UG SEDS Mechanical and Aerospace Engineering	4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		

827	MAE 305	Fluid Mechanics II	3	6	MAE 300 Fluid Mechanics I (5926) (D and above) OR EME 275 Fluid Mechanics I (1988) (D and above)			3 year UG SEDS Mechanical and Aerospace Engineering	4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
828	MAE 306	Computer Aided Engineering	3	6	ENG 202 Numerical Methods in Engineering (5506) (D and above) AND MAE 201 Computer Aided Design (5011) (D and above)			3 year UG SEDS Mechanical and Aerospace Engineering	4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
829	MAE 350	Structural Mechanics II	3	6	MAE 200 Structural Mechanics I (5010) (D and above) OR CEE 200 Structural Mechanics I (5005) (D and above)			3 year UG SEDS Mechanical and Aerospace Engineering	4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
830	MAE 351	Vehicle Propulsion Systems	3	6	MAE 301 Engineering Thermodynamics (5927) (D and above) OR BENG 226 Engineering Thermodynamics (1553) (D and above)			3 year UG SEDS Mechanical and Aerospace Engineering	4 year UG SEDS Mechanical and Aerospace Engineering	5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)	
831	MAE 451	Unmanned Aerial Vehicle Design	3	6	(MAE 303 Control Systems (5929) (D and above) AND MAE 340 Aerodynamics (6576) (D and above)) OR MMAE 603 Modern Control Engineering (4500) (C- and above)			4 year UG SEDS Mechanical and Aerospace Engineering	5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
832	MAE 454	Aerodynamics	3	6	MAE 300 Fluid Mechanics I (5926) (D and above)			3 year UG SEDS Mechanical and Aerospace Engineering	4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
833	MAE 456	Materials and Manufacturing II	3	6				4 year UG SEDS Mechanical and Aerospace Engineering	5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
834	MAE 457	Feasibility Analysis of Clean Energy Technologies	3	6				4 year UG SEDS Mechanical and Aerospace Engineering	5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		

835	MAE 460	Advanced Topics in Computational Fluid Dynamics	3	6	MAE 300 Fluid Mechanics I (5926) (D and above) AND ENG 202 Numerical Methods in Engineering (5506) (D and above)			4 year UG SEDS Mechanical and Aerospace Engineering	5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
836	MAE 463	Micro-Electro-Mechanical Systems and Microsystems technology	3	6				4 year UG SEDS Mechanical and Aerospace Engineering	5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
837	MAE 464	Mechanics of Soft Materials	3	6	ENG 102 Engineering Materials I (4708) (D and above)			4 year UG SEDS Mechanical and Aerospace Engineering	5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
838	MAE 465	Introduction to Maintenance Engineering	3	6	ENG 201 Applied Probability and Statistics (5505) (D and above)			4 year UG SEDS Mechanical and Aerospace Engineering	5 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering (pending graduation)		
839	MMAE 602	Master Thesis II	12	24	MMAE 601 Master Thesis I (5014) (P)			2 year Gr SEDS Mechanical and Aerospace Engineering			
840	MMAE 604	Advanced Computational Fluid Dynamics and Heat Transfer in Mechanical Engineering	3	6				1 year Gr SEDS Mechanical and Aerospace Engineering			
841	MMAE 606	Research Methods	3	6				1 year Gr SEDS Mechanical and Aerospace Engineering	2 year Gr SEDS Mechanical and Aerospace Engineering		
842	MMAE 700	Advanced Statistics and Probability	3	6				1 year Gr SEDS Mechanical and Aerospace Engineering	2 year Gr SEDS Mechanical and Aerospace Engineering		
843	MMAE 701	Numerical Techniques for Engineers	3	6				1 year Gr SEDS Mechanical and Aerospace Engineering	2 year Gr SEDS Mechanical and Aerospace Engineering		
844	MMAE 714	Space Flight Dynamics	3	6				1 year Gr SEDS Mechanical and Aerospace Engineering	2 year Gr SEDS Mechanical and Aerospace Engineering		
845	MMAE 719	Rocket Propulsion Fundamentals	3	6				1 year Gr SEDS Mechanical and Aerospace Engineering	2 year Gr SEDS Mechanical and Aerospace Engineering		
Mining Engineering											
846	MINE 201	Mineral Processing	3	6	SMG 100 Introduction to Natural Resources Extraction (4773) (and above) AND MATH 162 Calculus II (170) (and above) AND CHEM 101 General Chemistry I (113) (C- and above) AND PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above)			2 year UG SMG Mining Engineering			
847	MINE 303	Mine Services and Materials Handling	3	6	SMG 100 Introduction to Natural Resources Extraction (4773) (C- and above) AND PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) AND ROBT 201 Mechanics: Statics and Dynamics (475) (C- and above)			3 year UG SMG Mining Engineering			
848	MINE 304	Resource Estimation	3	6				3 year UG SMG Mining Engineering			

849	MINE 306	Underground Mining Systems and Design	3	6	MINE 302 Geomechanics (5878) (D and above)			3 year UG SMG Mining Engineering			
850	MINE 307	Surface Mining System and Design	3	6	MINE 302 Geomechanics (5878) (D and above)			3 year UG SMG Mining Engineering			
851	MINE 310	Rock Breakage	3	6	MINE 302 Geomechanics (5878) (D and above)			3 year UG SMG Mining Engineering			
852	MINE 404	Health, Safety and Sustainability in Mining	3	6				4 year UG SMG Mining Engineering	4 year UG SMG Petroleum Engineering		
853	MINE 480	Mine Design Project	3	6	MINE 307 Surface Mining System and Design (6150) (C- and above) OR MINE 306 Underground Mining Systems and Design (6151) (C- and above)			4 year UG SMG Mining Engineering			
854	MINE 490	Research project II	3	6	MINE 489 Mine Design Project I (6419) (P)			4 year UG SMG Mining Engineering			
855	MINE 505	Advanced Mine Ventilation	3	6				1 year Gr SMG Mining Engineering			
856	MINE 507	Rock Excavation Methods	3	6				1 year Gr SMG Mining Engineering			
857	MINE 508	Advanced Rock Mechanics	3	6				1 year Gr SMG Mining Engineering			
858	MINE 509	Advanced Surface Mine Design	3	6				1 year Gr SMG Mining Engineering			
859	MINE 510	Advanced Underground Mine Design	3	6				1 year Gr SMG Mining Engineering			
860	MINE 601	Mine Management and Sustainability	3	6				2 year Gr SMG Mining Engineering			
861	MINE 691	Thesis II	15	30	MINE 690 Thesis I (4531) (P)			2 year Gr SMG Mining Engineering			
862	MINE 702	Current Research Literature	4	8				1 year PhD SMG Mining Engineering			
863	MINE 703	Advanced Mining Systems	4	8				1 year PhD SMG Mining Engineering	1 year PhD SEDS Chemical Engineering, 1 year PhD SEDS Civil Engineering, 1 year PhD SEDS Mechanical Engineering, 1 year PhD SEDS Robotics Engineering		
864	MINE 803	Advanced Geometallurgy	4	8				1 year PhD SMG Mining Engineering			
865	MINE 890	Doctoral Thesis	90	180				4 year PhD SMG Mining Engineering, 5 year PhD SMG Mining Engineering (pending graduation)			
866	MINE 890-0	Thesis Research	0	0				1 year PhD SMG Mining Engineering, 2 year PhD SMG Mining Engineering, 3 year PhD SMG Mining Engineering, 4 year PhD SMG Mining Engineering, 5 year PhD SMG Mining Engineering (pending graduation)			
Petroleum Engineering											
867	PETE 202	Transport Phenomena	3	6	ENG 200 Engineering Mathematics III (Differential Equations and Linear Algebra) (5009) (C- and above)			2 year UG SMG Petroleum Engineering	3 year UG SMG Petroleum Engineering, 4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation)		
868	PETE 203	Drilling Engineering with Laboratories	4	8	PETE 201 Fluid Mechanics and Thermodynamics (5120) (C- and above)			2 year UG SMG Petroleum Engineering	5 year UG SMG Petroleum Engineering (pending graduation)		
869	PETE 204	Reservoir Rock and Fluid Properties with Lab	4	8				2 year UG SMG Petroleum Engineering	3 year UG SMG Petroleum Engineering, 4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation)		
870	PETE 305	Well Test Analysis	3	6	PETE 302 Reservoir Engineering I with Laboratory works (5955) (C- and above)			3 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation)	4 year UG SMG Petroleum Engineering		

871	PETE 306	Reservoir Engineering II	3	6	PETE 302 Reservoir Engineering I with Laboratory works (5955) (C- and above)			3 year UG SMG Petroleum Engineering	4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation)		
872	PETE 307	Production Engineering	3	6	PETE 201 Fluid Mechanics and Thermodynamics (5120) (C- and above) OR PETE 302 Reservoir Engineering I with Laboratory works (5955) (C- and above)			3 year UG SMG Petroleum Engineering	4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation)		
873	PETE 311	Reservoir Simulation	3	6	PETE 301 Numerical Methods for Petroleum Engineers (5881) (C- and above) AND PETE 302 Reservoir Engineering I with Laboratory works (5955) (C- and above)			3 year UG SMG Petroleum Engineering	4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation)		
874	PETE 404	Petroleum Geomechanics	3	6	GEOL 101 Fundamentals of Geology (4774) (C- and above) OR GEOL 102 Fundamentals of Geology (4772) (C- and above)			4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation)			
875	PETE 407	Capstone Design Project II	3	6	PETE 400 Capstone Design Project I (6424) (P)			4 year UG SMG Petroleum Engineering	5 year UG SMG Petroleum Engineering (pending graduation)		
876	PETE 506	Advanced Reservoir Simulation	3	6							
877	PETE 507	Advanced Reservoir Engineering	3	6				1 year Gr SMG Petroleum Engineering			
878	PETE 508	Advanced Production Engineering	3	6				1 year Gr SMG Petroleum Engineering			
879	PETE 606	Advanced Enhanced Oil Recovery	3	6				1 year Gr SMG Petroleum Engineering	2 year Gr SMG Petroleum Engineering		
880	PETE 613	Unconventional resources drilling	3	6				2 year Gr SMG Petroleum Engineering			
881	PETE 620	Thesis II	12	24							
882	PETE 701	Advanced Well Engineering	4	8				1 year PhD SMG Petroleum Engineering			
883	PETE 702	Current Research Literature	4	8				1 year PhD SMG Petroleum Engineering			
884	PETE 703	Advanced Reservoir Engineering	4	8				1 year PhD SMG Petroleum Engineering	1 year PhD SEDS Chemical Engineering, 1 year PhD SEDS Civil Engineering, 1 year PhD SEDS Mechanical Engineering, 1 year PhD SEDS Robotics Engineering		
885	PETE 801	Advanced Reservoir Simulation	4	8				1 year PhD SMG Petroleum Engineering	1 year PhD SEDS Chemical Engineering, 1 year PhD SEDS Civil Engineering, 1 year PhD SEDS Mechanical Engineering, 1 year PhD SEDS Robotics Engineering		
886	PETE 803	Advanced Enhanced Oil Recovery	4	8				1 year PhD SMG Petroleum Engineering	1 year PhD SEDS Chemical Engineering, 1 year PhD SEDS Civil Engineering, 1 year PhD SEDS Mechanical Engineering, 1 year PhD SEDS Robotics Engineering		
887	PETE 890-0	Thesis Research	0	0				1 year PhD SMG Petroleum Engineering, 2 year PhD SMG Petroleum Engineering, 3 year PhD SMG Petroleum Engineering, 4 year PhD SMG Petroleum Engineering, 5 year PhD SMG Petroleum Engineering (pending graduation)			
SMG											

888	SMG 400	Engineering Economics	3	6	SMG 200/ECON 220 Resource Economics (6197) (C- and above) OR ECON 120 Managerial Economics (1852) (C- and above) OR MATH 161 Calculus I (118) (C- and above) OR MATH 162 Calculus II (170) (C- and above)			4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SMG Petroleum Engineering	4 year UG SEDS, 4 year UG SSH		
School of Engineering											
889	DENG 700-0	Thesis Research	0	0				Science, Engineering and Technology			
890	DENG 794	Dissertation Research	12	24	DENG 785 PhD Proposal Oral Defence (2604) (P)			Science, Engineering and Technology			
891	DENG 797	Oral Defence of PhD Dissertation	0	0	DENG 785 PhD Proposal Oral Defence (2604) (P) AND DENG 789 Doctoral Seminar I (4598) (P) AND DENG 790 Doctoral Seminar II (4599) (P)			Science, Engineering and Technology			
SCAI											
Computer Science											
892	CSCI 111	Web Programming and Problem Solving	3	6			CSCI 101 Introduction to Computational Sciences (147) (D and above) OR CSCI 115 Programming Fundamentals (5257) (D and above) OR CSCI 151 Programming for Scientists and Engineers (192) (D and above) OR ENG 101 Programming for Engineers (4517) (D and above)	(ND-CC) Business Administration (UG), Business Administration (UG), SSH, SoM			
893	CSCI 115	Programming Fundamentals	4	8			CSCI 101 Introduction to Computational Sciences (147) (D and above) OR CSCI 111 Web Programming and Problem Solving (110) (D and above) OR CSCI 151 Programming for Scientists and Engineers (192) (D and above) OR ENG 101 Programming for Engineers (4517) (D and above)	Biological Sciences, Business Administration (UG), Chemistry, Mathematics, SoM	SSH		

894	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)	Biological Sciences, Chemistry, Computer Science, Mathematics, Robotics Engineering, SoM	Physics, SSH	SEDS, SMG	
895	CSCI 152	Performance and Data Structures	4	8	CSCI 151 Programming for Scientists and Engineers (192) (C- and above)			(ND-CC) Robotics Engineering, Computer Science, Robotics Engineering	Undeclared SEDS		
896	CSCI 245	System Analysis and Design	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science			
897	CSCI 262	Software Project Management	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science			
898	CSCI 270	Algorithms	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)	MATH 251 Discrete Mathematics (85) (D and above)		Computer Science			
899	CSCI 272	Formal Languages	3	6	CSCI 151 Programming for Scientists and Engineers (192) (C- and above)	MATH 251 Discrete Mathematics (85) (D and above)		Computer Science			
900	CSCI 281	Human-Computer Interaction	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			Computer Science			
901	CSCI 307	Research Methods	3	6				3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science, 5 year UG SEDS Computer Science (pending graduation)			
902	CSCI 325	Introduction to Parallel Systems and Graphics Processing Unit Programming	3	6	CSCI 332 Operating Systems (490) (C- and above)		PHYS 421 Parallel Computing (8532) (D and above)	Computer Science			
903	CSCI 332	Operating Systems	3	6	CSCI 231 Computer Systems and Organization (194) (D and above)			3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science, 5 year UG SEDS Computer Science (pending graduation)			
904	CSCI 333	Computer Networks	3	6	CSCI 152 Performance and Data Structures (489) (C- and above)			3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science, 5 year UG SEDS Computer Science (pending graduation)			
905	CSCI 363	Software Testing and Quality Assurance	3	6	CSCI 235 Programming Languages (638) (C- and above)			Computer Science			
906	CSCI 364	Software Architecture and Design	3	6	CSCI 361 Software Engineering (640) (C- and above)			Computer Science			
907	CSCI 371	Algorithmic Problem Solving	3	6	CSCI 270 Algorithms (648) (B and above)			Computer Science			
908	CSCI 399	Internship II	3	6				5 year UG SEDS Computer Science, 5 year UG SEDS Computer Science (pending graduation)			
909	CSCI 409	Senior Project II	3	6	CSCI 408 Senior Project I (1481) (C- and above)			4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science			
910	CSCI 447	Machine Learning: Theory and Practice	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 321 Probability (482) (C and above)			Computer Science			

911	CSCI 462	Open Source Software	3	6	CSCI 361 Software Engineering (640) (C- and above)			Computer Science			
912	CSCI 490	Brain Computer Interface	3	6	MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 321 Probability (482) (C and above)			Computer Science			
913	CSCI 496	Generative Artificial Intelligence	3	6	CSCI 390 Artificial Intelligence (643) (C- and above) AND MATH 273 Linear Algebra with Applications (84) (C- and above)			Computer Science			
914	CSCI 502	Hardware Software Co-Design	3	6	CSCI 501 Software Principles and Practice (2408) (C- and above)			1 year Gr SEDS Robotics	1 year Gr SEDS Computer Science		
915	CSCI 545	Big Data Analytics	3	6				Data Science	Computer Science		
916	CSCI 563	Software Testing and Quality Assurance	3	6				Computer Science	Data Science		
917	CSCI 585	Computer Vision	3	6				Computer Science, Data Science			
918	CSCI 595	Generative Artificial Intelligence	3	6				Computer Science, Data Science			
919	CSCI 694	Thesis	15	30				2 year Gr SEDS Computer Science			
920	CSCI 700	Thesis Research	89	178							
921	CSCI 700-0	Thesis Research	0	0				Computer Science			
922	CSCI 702	Advanced Hardware/Software Co-Design	4	8				Robotics Engineering	Computer Science		
923	CSCI 722	Current Research Literature	4	8				Computer Science			
924	CSCI 745	Advanced Big Data Analytics	4	8				Computer Science			
925	CSCI 785	Advanced Computer Vision	4	8				Computer Science			
926	CSCI 795	Advanced Generative Artificial Intelligence	4	8				Computer Science			
927	DS 504	Data Mining and Decision Support	3	6				Data Science	Computer Science		
928	DS 694	Thesis	15	30	DS 693 Thesis Proposal (5915) (P)			2 year Gr SEDS Data Science			
929	DS 704	Advanced Data Mining and Decision Support	4	8				Computer Science , Robotics Engineering			
930	SEDS 503	Laboratory Practicum	3	6	SEDS 502 Teaching Practicum (2824) (P)			2 year Gr SEDS Data Science			
931	SEDS 592	Research Seminar	3	6				Computer Science, Data Science, Robotics			
Mathematics											
932	MATH 109	Mathematical Discovery	3	6			MATH 161 Calculus I (118) (C- and above)	(ND-CC) Undeclared SSH, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation), Anthropology, History, Political Science and International Relations, Sociology, Undeclared SSH, World Languages, Literature and Culture			
933	MATH 161	Calculus I	4	8				5 year UG SSH (pending graduation), Biological Sciences, Chemistry, Mathematics, Medical Sciences, Physics, SEDS, SMG	(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared	SSH, SoM	
934	MATH 162	Calculus II	4	8	MATH 161 Calculus I (118) (C and above)			5 year UG SSH (pending graduation), Chemistry, Mathematics, Physics, SEDS, SMG	(ND-CC) Undeclared SSH, 1 year UG SSH Undeclared, Biological Sciences, Medical Sciences	SSH, SoM	
935	MATH 251	Discrete Mathematics	3	6	MATH 161 Calculus I (118) (C and above)			GSB, SEDS, SMG, SSH, SoM			
936	MATH 263	Calculus III	4	8	MATH 162 Calculus II (170) (C and above)			Mathematics, Physics		SEDS, SMG, SSH, SoM	
937	MATH 273	Linear Algebra with Applications	4	8	MATH 161 Calculus I (118) (C and above)	MATH 162 Calculus II (170) (C and above)		GSB, SEDS, SMG, SSH, SoM			
938	MATH 274	Introduction to Differential Equations	3	6	MATH 162 Calculus II (170) (C and above)			Chemistry, Mathematics, Physics, Robotics Engineering, Robotics and Mechatronics		SEDS, SMG, SSH, SoM	

939	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		SEDS, SMG, SSH, SoM	
940	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 SMG Mining Engineering, 2 year UG SSH Biological Sciences	Biological Sciences, Mining Engineering, Petroleum Engineering	SEDS, SMG, SSH, SoM	
941	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)	Computer Science, Mathematics, Robotics Engineering, Robotics and Mechatronics		SEDS, SMG, SSH, SoM	
942	MATH 322	Mathematical Statistics	3	6	MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above)			Mathematics		SEDS, SMG, SSH, SoM	
943	MATH 350	Research Methods	3	6	MATH 321 Probability (482) (C and above)			Mathematics		SEDS, SMG, SSH, SoM	
944	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		SEDS, SMG, SSH, SoM	
945	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		SEDS, SMG, SSH, SoM	
946	MATH 403	Abstract Algebra II	3	6	MATH 302 Abstract Algebra I (620) (C and above)			Mathematics		SEDS, SMG, SSH, SoM	
947	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		SEDS, SMG, SSH, SoM	
948	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		SEDS, SMG, SSH, SoM	
949	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		SEDS, SMG, SSH, SoM	
950	MATH 423	Actuarial Mathematics II	3	6	MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above)			Mathematics		SEDS, SMG, SSH, SoM	
951	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		SEDS, SMG, SSH, SoM	
952	MATH 449	Statistical Programming	3	6	MATH 322 Mathematical Statistics (1165) (C and above)			Mathematics		SEDS, SMG, SSH, SoM	
953	MATH 455	Stochastic Calculus	3	6	MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above)			Mathematics		SEDS, SMG, SSH, SoM	
954	MATH 460	Topology	3	6	MATH 361 Real Analysis I (483) (C and above)			Mathematics		SEDS, SMG, SSH, SoM	

955	MATH 462	Advanced Linear Algebra	3	6	MATH 251 Discrete Mathematics (85) (C and above) AND MATH 273 Linear Algebra with Applications (84) (C and above)			Mathematics		SEDS, SMG, SSH, SoM	
956	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)			3 year UG SSH Mathematics		SEDS, SMG, SSH, SoM	
957	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		SEDS, SMG, SSH, SoM	
958	MATH 490	Special Topics in Mathematics I	3	6				Instructor's Permission Required. Registration through Add Course form only!			
959	MATH 491	Special Topics in Mathematics II	3	6				Instructor's Permission Required. Registration through Add Course form only!			
960	MATH 492	Special Topics in Mathematics III	3	6				Instructor's Permission Required. Registration through Add Course form only!			
961	MATH 499	Capstone Project	3	6				Instructor's Permission Required. Registration through Add Course form only!			
962	MATH 551	Advanced Numerical Methods	3	6				Applied Mathematics		SEDS, SMG, SSH, SoM	
963	MATH 571	Advanced Nonlinear Differential Equations	3	6				Applied Mathematics		SEDS, SMG, SSH, SoM	
964	MATH 677	Introduction to Nonlinear Dispersive and Wave Equations	3	6				Applied Mathematics		SEDS, SMG, SSH, SoM	
965	MATH 682	Applied Functional Analysis	3	6				Applied Mathematics		SEDS, SMG, SSH, SoM	
966	MATH 691	Thesis Proposal	3	6	MATH 592 Research Seminar (5760) (C- and above)			Applied Mathematics		SEDS, SMG, SSH, SoM	
967	MATH 692	Thesis	15	30	MATH 691 Thesis Proposal (5769) (P)			Applied Mathematics		SEDS, SMG, SSH, SoM	
968	MATH 700	Doctoral Thesis	90	180				Mathematics			
969	MATH 700-0	Thesis Research	0	0						SEDS, SMG, SSH, SoM	
970	MATH 702	Functional Analysis with Applications	4	8				Mathematics		SEDS, SMG, SSH, SoM	
971	MATH 721	Nonlinear Differential Equations with Applications	4	8				Mathematics	SEDS, SMG, SSH		
972	MATH 742	Advanced statistical programming	4	8				Mathematics		SEDS, SMG, SSH, SoM	
973	MATH 776	Advanced numerical methods for partial differential equations	4	8				Mathematics		SEDS, SMG, SSH, SoM	
974	MATH 791	Topics in Mathematics	4	8				Instructor's Permission Required. Registration through Add Course form only!			
Robotics and Mechatronics											
975	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 Engineering, Robotics and Mechatronics	Computer Science		
976	ROBT 204	Electrical and Electronic Circuits II with Lab	4	8	ROBT 203 Electrical and Electronic Circuits I with Lab (62) (C- and above)			Robotics Engineering, Robotics and Mechatronics			

977	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 Engineering, Robotics and Mechatronics			
978	ROBT 304	Electromechanical Systems with lab	4	8	ROBT 203 Electrical and Electronic Circuits I with Lab (62) (C- and above)			Robotics Engineering, Robotics and Mechatronics			
979	ROBT 307	Power Electronics	3	6	ROBT 204 Electrical and Electronic Circuits II with Lab (491) (C- and above)			Robotics Engineering, Robotics and Mechatronics	SEDS		
980	ROBT 312	Robotics I: Kinematics and Dynamics	3	6	ROBT 201 Mechanics: Statics and Dynamics (475) (C- and above) AND MATH 273 Linear Algebra with Applications (84) (C- and above)			Robotics Engineering, Robotics and Mechatronics	SEDS		
981	ROBT 391	Research methods	3	6				3 year UG SEDS Robotics Engineering, 4 year UG SEDS Robotics Engineering			
982	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 Engineering, Robotics and Mechatronics	SEDS		
983	ROBT 492	Capstone Project II	3	6	ROBT 491 Capstone Project I (1896) (D and above)			Robotics Engineering, Robotics and Mechatronics			
984	ROBT 502	Robot Perception & Vision	3	6	ROBT 501 Advanced Robot Kinematics (2263) (C- and above)			Robotics	SEDS		
985	ROBT 692	Thesis	15	30	ROBT 691 Thesis Proposal (5930) (P)			Robotics			
986	ROBT 700-0	Thesis Research	0	0				Robotics Engineering			
987	ROBT 702	Advanced Robot Perception and Vision	4	8				Robotics Engineering	SEDS		
988	ROBT 722	Current Research Literature	4	8				Robotics Engineering			