Course Requirements and Registration Priorities
Summer 2026

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
GSB											
Economics											
1	ECON 101	Introduction to Microeconomics	3	6				Undeclared SSH	Business Administration (UG), SSH	SEDS, SMG, SoM	
2	ECON 201	Intermediate Microeconomics	3	6	ECON 101 Introduction to Microeconomics (379) (B- and above) AND (MATH 161 Calculus I (118) (B- and above) OR MATH 162 Calculus II (170) (B- and above))			2 year UG SSH Economics, 3 year UG SSH Economics	Business Administration (UG), Mathematics	SSH	
3	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)						
4	ECON 455	Contemporary Issues in Economics	3	6	ECON 201 Intermediate Microeconomics (133) (C- and above) AND ECON 202 Intermediate Macroeconomics (207) (C- and above)						
5	ECON 580	Research and Thesis	0	0				Economics			
GSB											
6	BUS 101	Core Course in Business	3	6				Business Administration (UG)	SEDS, SMG, SSH, SoM		
7	GSBF 541	Global Finance Experience Residency (I)	.5	1							

8	GSBF 542	Global Finance Experience Residency (II)	2.5	5							
9	GSBPHD 04	Core Research Skills I	4	8				GSB			
10	GSBPHD 08	Core Research Skills II	4	8				GSB			
11	GSBPHD 13	PhD Qualifying Exam	5	10				GSB			
12	GSBPHD 14	Thesis Research Progress	0	0				GSB			
13	GSBPHD 19	Year 1 Summer Paper Submission and Presentation	4	8				1 year GSB Business Administration (PhD)			
14	GSBPHD 20	Year 2 Summer Paper Submission and Presentation	4	8				2 year GSB Business Administration (PhD)			
15	MBA 07	Management and Organizations	3	6							
16	MBA 11	Operations Management	3	6							
17	MBA 12	Environmental, Social and Governance Factors (ESG) for Business	3	6							
18	MBAE 01	Corporate Finance	3	6							
19	MBAE 16	Project Management	3	6							
20	MBAE 2	Emerging Markets Strategy	3	6							
21	MSF 05	Internship	3	6							
22	MSF 513a	Industry Insights Initiative	0	0							
GSPP											
GSPP											
23	DPM 610	Program Evaluation	4	8				1 year GSPP Doctor of Public Management			
Master in Public Administration											
24	MPA 609	Human Resource Policy and Management	4	8				1 year GSPP Public Administration			
25	MPA 699b	Master’s Project with Overseas Component	0	0				1 year GSPP Public Administration			

26	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))			1 year GSPP Public Administration, 1 year GSPP Public Policy			
Master in Public Policy											
27	MPP 699b	Policy Analysis Exercise with Overseas Component	0	0				1 year GSPP Public Policy			
PhD in Public Policy											
28	DPP 600	Developing Dissertation Research	0	0				Public Policy			
GSE											
MA in Multilingual Education											
29	EDML 690	Thesis Research I	0	0				1 year GSE MA in Multil.Education			
MSc Educational Leadership HE											
30	EDHE 601	Thesis Seminar 1	0	0				1 year GSE Educ.Leadership			
31	EDHE 602	Thesis Seminar 2	0	0				1 year GSE Educ.Leadership			

32	EDUC 610	Management in Education	3	6				1 year GSE Educ.Leadership			
33	EDUC 729	Developing the Research Topic	0	0				1 year GSE PhD Education			
34	EDUC 730	Preparation for Proposal Defence	0	0				2 year GSE PhD Education			
35	EDUC 731	Proposal Defence	3	6							
36	EDUC 733	Thesis Proposal Defense	12.5	25				3 year GSE PhD Education			
37	EDUC 752	Dissertation Research: Independent Study	0	0				3 year GSE PhD Education, 4 year GSE PhD Education, 5 year GSE PhD Education (pending graduation)			
38	EDUC 753	Thesis Defense	55	110							
MSc Educational Leadership IE											
39	EDIE 601	Thesis Seminar 1	0	0				1 year GSE Educ.Leadership			
40	EDIE 602	Thesis Seminar 2	0	0				1 year GSE Educ.Leadership			
MSc Educational Leadership SE											
41	EDSE 601	Thesis Seminar 1	0	0				1 year GSE Educ.Leadership			
42	EDSE 602	Thesis Seminar 2	0	0				1 year GSE Educ.Leadership			
Other											
Other											
43	STUMOB 001	Student Mobility Course	0	0							
44	T - AIAA 5023	Foundations of Deep Neural Networks	3	6							
45	T - UCUG 1807	Thinking like an Economist (I) - Microeconomics	3	6							
46	T-FREN 201	French I: Beginners	3	6							
47	T-MFIN 202	Introduction to Financial Management	3	6							
SoM											
Biological Science											
48	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)		Biological Sciences	GSB, SEDS, SMG, SSH, SoM		

49	BIOL 392	Directed Study in Biology	3	6				2 year UG SSH Biological Sciences, 3 year UG SSH Biological Sciences	Biological Sciences		
50	BIOL 399	Biology Internship - 2B	3	6				3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences	2 year UG SSH Biological Sciences		
51	BIOL 599	Master's Thesis Research	0	0				Life Sciences			
52	BIOL 800-0	Thesis Research	0	0							
Master of Sciences in Biomedicine											
53	MSBM 511	Internship in Sports and Exercise Sciences	3	6				1 year Gr SOM Biomedicine			
PHD											
54	PHDBS 701	Thesis Research	90	180				4 year PhD SOM BioMed Sciences, 5 year PhD SOM BioMed Sciences (pending graduation), 6 year Gr SOM (pending graduation)			
55	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), 6 year Gr SOM (pending graduation)			
56	PHDGH 701	Thesis Research	90	180				4 year PhD SOM Global Health			
57	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, 4 year PhD SOM Global Health			
SSH											
Academic Success Centre, Communication and Composition											
58	WCS 150	Rhetoric and Composition	3	6				Business Administration (UG), SEDS, SMG, SSH, SoM			

59	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)	Business Administration (UG), SEDS, SMG, SSH, SoM			
Area Studies											
60	EAS 505	Research and Fieldwork Practicum	4	8				Eurasian Studies			
61	EAS 800	Doctoral Thesis in Eurasian Studies	70	140							
62	EAS 800-0	Dissertation Research in Eurasian Studies	0	0				Eurasian Studies			
Biological Science											
63	BIOL 398	Biology Internship - 2A	1	2				1 year UG SSH Biological Sciences, 2 year UG SSH Biological Sciences, 3 year UG SSH Biological Sciences			
Chemistry											

64	CHEM 100	Introduction to Chemistry	3	6			CHEM 090 Chemistry for Non-Science majors (152) (D+ and above)	5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Anthropology, Business Administration (UG), Economics, History, Nursing, Political Science and International Relations, Sociology, Undeclared SEDS, Undeclared SMG, Undeclared SSH, World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
65	CHEM 101	General Chemistry I	3	6				Chemistry, Undeclared SSH	Biological Sciences, SMG, SoM	SEDS, SSH	
66	CHEM 101L	General Chemistry I lab	1	2		CHEM 101 General Chemistry I (113) (C and above)		Chemistry	Biological Sciences, SoM	SEDS, SMG, SSH	
67	CHEM 102	General Chemistry II	3	6	CHEM 101 General Chemistry I (113) (C and above)			Chemistry, Undeclared SSH	Biological Sciences, SMG, SoM	SEDS, SSH	
68	CHEM 105	Introduction to Environmental Science	3	6			CHEM 092 Survey of Environmental Sciences for Non-Science Majors (1149) (D+ and above)	5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Anthropology, Business Administration (UG), Economics, History, Nursing, Political Science and International Relations, Sociology, Undeclared SEDS, Undeclared SMG, Undeclared SSH, World Languages, Literature and Culture	SSH	SEDS, SMG, SoM	
69	CHEM 189a	Independent Study	1	2							
70	CHEM 189c	Independent Study	3	6				Chemistry			
71	CHEM 211	Organic Chemistry I	3	6	CHEM 102 General Chemistry II (232) (C and above)			Chemistry	Biological Sciences, SoM	SEDS, SMG, SSH	
72	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	
73	CHEM 560	Directed research in chemistry	0	0				Chemistry			

74	CHEM 798-0	Thesis Research	0	0				Chemistry			
75	CHEM 800	Doctoral Thesis	89	178							
Communication and Composition											
76	WCS 305	Multimodal Communication Internship II	3	6	WCS 304 Multimodal Communication Internship I (8702) (P) OR SSH 300 School of Sciences and Humanities Internship (712) (P)						
History, Philosophy and Religious Studies											
77	HST 100	History of Kazakhstan	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), 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 GSB Business Administration (UG), 1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH	2 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SOM, 2 year UG SSH, 3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH	
78	HST 399	Independent Study	3	6							
79	PHIL 210	Ethics	3	6							
Kazakh Language and Turkic Studies											
80	KAZ 150	Basic Kazakh	3	6	KLL "[A2] Basic"			3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH	1 year UG GSB Business Administration (UG), 1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH, 2 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SOM, 2 year UG SSH	Business Administration (UG), SEDS, SMG, SSH, SoM	

81	KAZ 201	Academic Kazakh I	3	6	KAZ 150 Basic Kazakh (1215) (C- and above) OR KLL "[B1.2] Intermediate"			3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH	1 year UG GSB Business Administration (UG), 1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH, 2 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SOM, 2 year UG SSH	Business Administration (UG), SEDS, SMG, SSH, SoM	
82	KAZ 202	Academic Kazakh II	3	6	KAZ 201 Academic Kazakh I (4561) (C- and above) OR KLL "[B2.2] Upper-Interm."			3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH	1 year UG GSB Business Administration (UG), 1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH, 2 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SOM, 2 year UG SSH	Business Administration (UG), SEDS, SMG, SSH, SoM	
83	KAZ 312	Kazakh discourse	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, Undeclared SSH	2 year UG SSH Political Sciences and International Relations, Business Administration (UG), SEDS, SMG, SSH, SoM		
84	KAZ 371	Contemporary Kazakh Literature	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	Business Administration (UG), SEDS, SMG, SSH, SoM		
85	KAZ 378	Kazakh for Social Science	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	Business Administration (UG), SEDS, SMG, SSH, SoM		
86	KFL 201	Intermediate Kazakh as a Foreign Language I	4	8							
87	KFL 202	Intermediate Kazakh as a Foreign Language II	4	8	KFL 201 Intermediate Kazakh as a Foreign Language I (4887) (C- and above)						

Languages, Literature and Linguistics											
88	KOR 101	Beginning Korean I	4	8				2 year UG SSH World Languages, Literatures and Cultures	1 year UG SSH, 2 year UG SSH, 3 year UG SSH World Languages, Literatures and Cultures	SSH	
89	LING 371	Practicum in Teaching Foreign Languages	2	4							
90	PER 101	Beginning Persian I	4	8				2 year UG SSH History, 2 year UG SSH Political Sciences and International Relations, 2 year UG SSH World Languages, Literatures and Cultures	1 year UG SSH, 2 year UG SSH, 3 year UG SSH		
91	WLL 399	Independent Study	3	6							
92	WLL 400	Research Assistance in Linguistics and Literature	1	2							
Physics											
93	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)	Business Administration (UG), SEDS, SMG, SSH, SoM			
94	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)	Business Administration (UG), SEDS, SMG, SSH, SoM			
95	PHYS 299	Research project and internship	3	6							
96	PHYS 399	Physics Research Project	3	6							
97	PHYS 600	Thesis Research	0	0				Physics			
98	PHYS 700	Doctoral Thesis	90	180							
99	PHYS 700-0	Thesis Research	0	0				Physics			
Political Science and International Relations											
100	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	Business Administration (UG), SEDS, SMG, SSH, SoM	

101	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)						
102	PLS 451	Advanced Topics in International Relations	3	6	PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)			Political Science and International Relations	Business Administration (UG), SEDS, SMG, SSH, SoM		
103	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)						
104	PLS 581	Independent Study in Political Science	4	8							
105	PLS 596	Thesis Preparation	2	4	Subject "PLS" BETWEEN 500 and 599						
106	PLS 597	Research for Thesis	6	12				Political Science and International Relations			
SSH											
107	SSH 300	School of Sciences and Humanities Internship	3	6							
108	SSH 301	School of Sciences and Humanities Internship: Second Experience	3	6							
Sociology and Anthropology											
109	ANT 110	Introduction to Sociocultural Anthropology	3	6				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	Business Administration (UG), SEDS, SMG, SSH	

110	ANT 314	Politics of Identity in Eurasia	3	6	Subject "HST" BETWEEN 100 and 499 OR Subject "SOC" BETWEEN 100 and 499 OR Subject "ANT" BETWEEN 100 and 499 OR Subject "PLS" BETWEEN 100 and 499 OR Subject "SOC" BETWEEN 100 and 499 OR Subject "ANT" BETWEEN 100 and 499			Anthropology	Sociology, Undeclared SEDS, Undeclared SMG, Undeclared SSH	Business Administration (UG), SEDS, SMG, SSH, SoM	
111	ANT 400	Research Assistance in Anthropology	1	2							
112	ANT 401	Research Assistance in Anthropology	1	2							
113	ANT 402	Research Assistance in Anthropology	1	2							
114	ANT 403	Research Assistance in Anthropology	2	4							
115	SOC 400	Research Assistance in Sociology	1	2							
116	SOC 401	Research Assistance in Sociology	1	2							
117	SOC 402	Research Assistance in Sociology	1	2							
SEDS											
Civil and Environmental Engineering											
118	DCEE 700	Thesis Research	89	178				Civil Engineering			
Electrical and Computer Engineering											
119	DELCE 700	Thesis Research	89	178				Electrical Engineering			
SoE											
Chemical and Materials Engineering											
120	CHME 403	Chemical Process Control and Safety	3	6							
121	DCHME 700	Thesis Research	89	178				Chemical Engineering			
122	DCHME 700-0	Thesis Research	0	0				Chemical Engineering			
Civil and Environmental Engineering											
123	DCEE 700-0	Thesis Research	0	0				Civil Engineering			
Electrical and Computer Engineering											
124	DELCE 700-0	Thesis Research	0	0				Electrical Engineering			

125	ELCE 201	Circuits Theory II	3	6	ELCE 200 Introduction to Electrical Circuits (4991) (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	3 year UG SEDS Electrical and Computer Engineering	
126	ELCE 203	Signals and Systems	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	3 year UG SEDS Electrical and Computer Engineering	
127	ELCE 301	Electronic Circuits	3	6	ELCE 201 Circuit Theory (5507) (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		
128	ELCE 311	Interdisciplinary Design Project	3	6			ENG 400 Capstone Project (6385) (C- and above)	4 year UG SEDS Electrical and Computer Engineering			
129	MECE 603	Advanced Data Structures and Algorithms	3	6				Electrical and Computer Engineering			
Geosciences											
130	GEOL 206	Field Geology 1	3	6	GEOL 202 Geologic Maps and Cross-Sections (5123) (C- and above)			2 year UG SMG Geology, 2 year UG SMG Mining Engineering			
Mechanical and Aerospace Engineering											
131	DMAE 700	Thesis Research	89	178				Mechanical Engineering			
132	DMAE 700-0	Thesis Research	0	0				Mechanical Engineering			
133	ENG 202	Numerical Methods in Engineering	3	6	ENG 200 Engineering Mathematics III (Differential Equations and Linear Algebra) (5009) (D and above)						
134	MAE 353	Summer Internship	1.5	3				3 year UG SEDS Mechanical and Aerospace Engineering			
Mining Engineering											
135	MINE 890	Doctoral Thesis	90	180				4 year PhD SMG Mining Engineering, 5 year PhD SMG Mining Engineering (pending graduation)			

136	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											
137	PETE 421	Advanced Technologies in Drilling	3	6	PETE 203 Drilling Engineering with Laboratories (5486) (C- and above) AND PETE 304 Well Completion and Stimulation (5883) (C- and above)			3 year UG SMG Petroleum Engineering, 4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation)			
138	PETE 890	Doctoral Thesis	90	180				4 year PhD SMG Petroleum Engineering, 5 year PhD SMG Petroleum Engineering (pending graduation)			
139	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)			
School of Engineering											
140	DENG 700	Thesis Research	89	178							
141	DENG 700-0	Thesis Research	0	0				Science, Engineering and Technology			
142	DENG 794	Dissertation Research	12	24	DENG 785 PhD Proposal Oral Defence (2604) (P)			Science, Engineering and Technology			
SCAI											
Computer Science											
143	CSCI 152	Performance and Data Structures	4	8	CSCI 151 Programming for Scientists and Engineers (192) (C- and above)			Computer Science, Robotics Engineering, Robotics and Mechatronics	Undeclared SEDS		
144	CSCI 299	Internship I	3	6							
145	CSCI 398	Directed Study	3	6							

146	CSCI 399	Internship II	3	6							
147	CSCI 700	Thesis Research	89	178				Computer Science			
148	CSCI 700-0	Thesis Research	0	0				Computer Science			
149	DS 552	Data-Driven Innovation	3	6						Applied Artificial Intelligence and Data Science	
Mathematics											
150	MATH 161	Calculus I	4	8				1 year UG GSB Business Administration (UG), Biological Sciences, Chemistry, Economics, Mathematics, Medical Program (Six-Year), Medical Sciences, Physics, SEDS, SMG, Undeclared SSH		SSH, SoM	
151	MATH 162	Calculus II	4	8	MATH 161 Calculus I (118) (C and above)			Chemistry, Mathematics, Physics, SEDS, SMG	SSH, SoM		
152	MATH 599	Thesis Research Preparation	0	0				Applied Mathematics			
153	MATH 700	Doctoral Thesis	90	180							
154	MATH 700-0	Thesis Research	0	0				Mathematics			
Robotics and Mechatronics											
155	ROBT 399	Internship	3	6							
156	ROBT 700	Thesis Research	89	178				Robotics Engineering			
157	ROBT 700-0	Thesis Research	0	0				Robotics Engineering			