

**Course Requirements and Registration Priorities**  
**School of Engineering and Digital Sciences, Summer 2021**

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
<b>SEDS</b>											
<b>Chemical and Materials Engineering</b>											
1	CHME 202	Fluid Mechanics	3	6				4 year UG SEDS Chemical Engineering, 5 year UG SEDS, 5 year UG SSH	3 year UG SEDS Chemical and Materials Engineering		
2	CHME 352	Research Practice	3	6				4 year UG SEDS Chemical Engineering, 5 year UG SEDS, 5 year UG SSH	3 year UG SEDS Chemical and Materials Engineering		
3	DCHME 700-0	Thesis Research	0	0				Chemical Engineering			
4	ECHE 386	Chemical Plant Design and Optimization	3	6				4 year UG SEDS Chemical Engineering, 5 year UG SEDS, 5 year UG SSH			
5	ECHE 418	Capstone project 1	3	6	ECHE 323 Computational methods in Chemical Engineering-I (1272) (D and above)			4 year UG SEDS Chemical Engineering, 5 year UG SEDS, 5 year UG SSH			
6	ECHE 420	Polymer Processing and Rheology	3	6				4 year UG SEDS Chemical Engineering, 5 year UG SEDS, 5 year UG SSH			
7	ECHE 479	Capstone Project II	9	18	ECHE 418 Capstone project 1 (1278) (D and above)			4 year UG SEDS Chemical Engineering, 5 year UG SEDS, 5 year UG SSH			
8	MBME 604	Biosensors	3	6				2 year Gr SEDS Electrical and Computer Engineering			
<b>Civil and Environmental Engineering</b>											
9	CEE 201	Environmental Chemistry	3	6				Instructor's Permission Required. Registration through Add Course form only!			
10	DCEE 700-0	Thesis Research	0	0				Instructor's Permission Required. Registration through Add Course form only!			
<b>Computer Science</b>											
11	CSCI 152	Performance and Data Structures	4	8	CSCI 151 Programming for Scientists and Engineers (192) (C- and above) OR ENG 101 Programming for Engineers (4517) (B- and above)			5 year UG SEDS, 5 year UG SSH, Computer Science, Robotics and Mechatronics	SEDS	SMG, SSH, SoM	

12	CSCI 299	Internship I	3	6				5 year UG SEDS, 5 year UG SSH, Computer Science			
13	CSCI 398	Directed Study	3	6				Instructor's Permission Required. Registration through Add Course form only!			
14	CSCI 399	Internship II	3	6				5 year UG SEDS, 5 year UG SSH, Computer Science			
15	CSCI 399F	Internship II - F	6	12				Instructor's Permission Required. Registration through Add Course form only!			
16	CSCI 409	Senior Project II	3	6	CSCI 408 Senior Project I (1481) (C- and above)						
17	CSCI 700-0	Thesis Research	0	0				Computer Science			
<b>Electrical and Computer Engineering</b>											
18	DELCE 700-0	Thesis Research	0	0				Electrical Engineering			
19	EEE 437	Capstone Project 1	3	6				5 year UG SEDS, 5 year UG SSH, Electrical and Electronic Engineering			
20	ELCE 309	Individual Study	3	6				5 year UG SEDS, 5 year UG SSH, Electrical and Computer Engineering			
<b>Mechanical and Aerospace Engineering</b>											
21	DMAE 700-0	Thesis Research	0	0				Mechanical Engineering			
22	DMAE 770	Digital Transformation Concepts	4	8				Instructor's Permission Required. Registration through Add Course form only!			
23	MAE 302	Machine Elements Design	3	6	MAE 205 Material and Manufacturing I (5534) (D and above)			Instructor's Permission Required. Registration through Add Course form only!			
24	MAE 307	Engineering Dynamics II	3	6	MAE 206 Engineering Dynamics I (5535) (D and above)			Instructor's Permission Required. Registration through Add Course form only!			
<b>Robotics and Mechatronics</b>											
25	ROBT 399	Internship	3	6				Instructor's Permission Required. Registration through Add Course form only!			
26	ROBT 700-0	Thesis Research	0	0				Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Mechanical Engineering, Robotics Engineering, Science, Engineering and Technology			
<b>School of Engineering</b>											
27	BENG 312	Internship	6	12				5 year UG SEDS, 5 year UG SSH, SEDS, SMG, SSH, SoM			

28	DENG 700-0	Thesis Research	0	0				2 year PhD SEDS Science, Engineering and Technology			
29	DENG 794	Dissertation Research	12	24	DENG 785 PhD Proposal Oral Defence (2604) (P)			4 year PhD SEDS Science, Engineering and Technology, 5 year PhD SEDS Science, Engineering and Technology			
30	DENG 796	Thesis Completion	0	0				3 year PhD SEDS Science, Engineering and Technology, 4 year PhD SEDS Science, Engineering and Technology, 5 year PhD SEDS Science, Engineering and Technology			
31	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)			2 year PhD SEDS Science, Engineering and Technology, 3 year PhD SEDS Science, Engineering and Technology, 4 year PhD SEDS Science, Engineering and Technology, 5 year PhD SEDS Science, Engineering and Technology			