Bachelor of Science in Chemical Engineering

College of Engineering



DAVIDSON SCHOOL OF CHEMICAL ENGINEERING

Major Required Courses (46 credits)								
Chemical Engineering Core								
(1) CHE 20000 ChE Sophor	nore Seminar							
(4) CHE 20500 ChE Calcula	tions							
(4) CHE 21100 Intro ChE T	hermodynamics							
(1) CHE 30000 ChE Junior S (3) CHE 30600 Design of St (3) CHE 32000 Statistical M (4) CHE 34800 Chemical Re (4) CHE 34700 Memortum	Seminar							
(3) CHE 30600 Design of St	aged Separation Processes							
(3) CHE 32000 Statistical M	odeling & Quality Enhancement							
(4) CHE 34800 Chemical Re								
(4) CHE 37700 Momentum	Transfer							
(4) CHE 37800 Heat & Mass	s Transfer							
(1) CHE 40000 ChE Senior	Seminar							
(4) CHE 37700 Momentum (4) CHE 37800 Heat & Mass (1) CHE 40000 ChE Senior (3) CHE 42000 Process Saf (4) CHE 43500 ChE Laborat (4) CHE 45000 Design & An (4) CHE 45000 Design & An								
(4) CHE 43500 ChE Laborat								
(4) CHE 45000 Design & An	alysis of Processing Systems							
(3) CHE 45600 Process Dyr								
(3) Chemical Engineering Se	elective							
Other Departmental Courses (84 cred	lits)							
First Year Engineering Core								
	emistry I 🔶 <i>(satisfies Science Sele</i>	ctive for core)						
			ective for core)					
(2) ENGR 13200 Transformi	ng Ideas to Innovation II \blacklozenge							
(4) MA 16500 Applytic Coop	-	(contitative Researching for sore)						
	netry and Calculus I ♦ (satisfies Qu	cantilative Reasoning for core						
(4) MA 16600 Analytic Geom								
(3) Oral Communication Sele	ective 🔶 (satisfies Oral Communica							
	or ENGR 16200 Honors Creativity a		esign II 🔶					
	Selective 🔶 (satisfies Written Comr	nunication for core)						
ChE Science, Technology, E	Engineering, Math Core							
(3) Biology Selective (3) CHM 26100 Organic Che (1) CHM 26300 Organic Che								
(3) CHM 26100 Organic Che								
(1) CHM 26300 Organic Che								
(3) CHM 26200 Organic Che	(3) CHM 26200 Organic Chemistry II							
(1) CHM 26400 Organic Che								
(3) CHM 37000 Physical Ch	emistry							
(6) Engineering Selective								
(4) MA 26100 Multivariate C	alculus							
(3) Math Selective I								
(3) CHM 26200 Organic Che (1) CHM 26400 Organic Che (3) CHM 37000 Physical Che (6) Engineering Selective (4) MA 26100 Multivariate Che (3) Math Selective I (3) Math Selective II (3) Math Selective II	Orthog							
	Optics							
(3) Technical Selective	ative Core (calent from list)							
ChE General Education Sele (3) Behavioral Social Science	e Selective (satisfies Human Cultur	res: Behavioral Social Science fo	r core)					
	tisfies Human Cultures: Humanities							
	Society Selective (satisfies Science,	,						
(3) General Education Selec								
(6) Upper Level General Edu								
Electives (0-9 credits)								
	who complete a course that fulfills b	oth Science, Technology & Socie	ety and Technical Selective)					
	who complete a course that fulfills b	oth Humanities/Behavioral Socia	I Science/ Science,					
	and Upper Level General Education							
Critical Course								
University Core Requirements:								
• •		Colongo Tooby - Laws C. Caril	Science, Technology & Society					
Human Cultures: Humanities	Humanities Selective	Science, Technology & Society	Selective					
Human Cultures: Behavioral/Social Science	Behavioral Social Science Selective	Written Communication	Written Communication Selective					
Information Literacy	ENGR 13100	Oral Communication	Oral Communication Selective					
Science Selective	CHM 11500	Quantitative Reasoning	MA 16500					
	000444600	-						

The student is ultimately responsible for knowing and completing all degree requirements. Degree Works is knowledge source for specific requirements and completion.

Bachelor of Science in Chemical Engineering

College of Engineering



DAVIDSON SCHOOL OF CHEMICAL ENGINEERING

Suggested Arrangement of Courses (please see your academic advisor for other options creating your plan of study):

Credits		(ploade	Prerequisite	Credits	Spring 1st Year	orotaa	Prerequisite
4	CHM 11500 🔶		MA 16500	4	CHM 11600 🔶		CHM 11500
2	ENGR 13100 ♦			2	ENGR 13200 ♦		ENGR 13100
4	MA 16500 ♦		ALEKS score of 85 or SAT Math score of 650 or ACT Math score of 29	4	MA 16600 🔶		MA 16500
3	Written Communication Selective ♦			4	PHYS 17200 or ENGR 16200 ♦		MA 16500
				3	Oral Communication Selective 🔶		
13	Total Credits			17	Total Credits		
Credits	Fall 2nd Year		Prerequisite	Credits	Spring 2nd Year		Prerequisite
1	CHE 20000	Fall Only		4	CHE 21100		CHE 20500, MA 26100
4	CHE 20500		ENGR 13100, PHYS 17200, MA 16500, <i>CHM 11600</i>	3	CHE 32000		CHE 20500, Math Selective I
3	CHM 26100	Fall Only	CHM 11600	3	CHM 26200	Spring Only	CHM 26100
1	CHM 26300	Fall Only	CHM 26100	1	CHM 26400	Spring Only	CHM 26300 CHM 26200
4	MA 26100		MA 16600	3	Math Selective I		MA 26100
3	PHYS 241		PHYS 17200, <i>MA 16600</i>	3	Behavioral Social Science Selective		
16	Total Credits			17	Total Credits		
Credits	Fall 3rd Year		Prerequisite	Credits	Spring 3rd Year		Prerequisite
3	CHE 30600		CHE 21100	1	CHE 30000	Spring Only	
4	CHE 37700		CHE 21100, Math Selective II	4	CHE 37800		CHE 37700
3	CHM 37000		CHE 21100, CHM 11600, MA 26100, PHYS 24100	4	CHE 34800		Math Selective I, CHE 21100, CHM 26100
3	Math Selective II		Math Selective I	3	Technical Selective		
3	Biology Selective			3	Engineering Selective		
				3	General Education Selective		
16	Total Credits			18	Total Credits		
Credits	Fall 4th Year		Prerequisite	Credits	Spring 4th Year		Prerequisite
1	CHE 40000	Fall Only	CHE 45600	4	CHE 45000		CHE 30600, 37800, 42000,43500, 45600
3	CHE 42000	Fall Only	CHE 37700, 34800, 37800	3	Chemical Engineering Selective		
4	CHE 43500		CHE 30600, 32000, 34800, 37800	3	Engineering Selective		
3	CHE 45600	Fall Only	CHE 34800, 37800	3	Science, Technology & Society Sele	ctive	
3	Humanities Selective			3	Upper Level General Education Select	tive	
3	Upper Level General Education Sele	ctive					
5	oppor zever certeral zaddatien cele	01110					

Concurrent prerequisites are listed in *italics*

Critical Course

130 Credits required for graduation

2.0 overall and major (Chemical Engineering Core) GPA required for Bachelor of Science degree Students must earn a "C" or better in CHE 20500 to enroll in any other CHE course Students must earn a "C-"or better in all other CHE major required courses (Chemical Engineering Core) Students may take the ChE General Education Selective Core courses for a letter grade or pass/ no pass option 3 credits of CHE 41100, 41200, 49800 or 49900 may be used to complete the Chemical Engineering Selective 3 credits of CHE 41100, 41200, 49800, or 49900 may be used to complete the Engineering or Technical Selective Students may <u>not</u> use credit in the following courses to fulfill CHE Degree requirements: ABE 20100, ABE 21000, ABE 30800, ABE 37000, IE 23000, IE 33000, ME 30900, ME 31500

The student is ultimately responsible for knowing and completing all degree requirements.
Degree Works is knowledge source for specific requirements and completion