

PLUS ONE CURRICULUM OUTLINE

Sample Only – Actual Curriculum Sequence May Deviate from Sample

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING CURRICULUM - 4 YEAR 2 COOP OPTION - CLASS OF 2021

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1342 Calculus 2 for Engrs. 4 CHEM1151 General Chem for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro. to Eng'g. 1 GE1501 Cornerstone Eng'g 1 4 ENGW1111 College Writing 4	MATH2321 Calculus 3 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 4 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 0 GE1502 Cornerstone Eng'g 2 4 Elective General Elective 1 4	CHME2308 ChE Conservation Princ. 4 Elective General Elective 2 4	Vacation
Year 2 MC	MATH2341 Diff. Eq./Lin. Alg. 4 CHEM2311 Organic Chemistry 1 4 CHEM2312 Lab for CHEM2311 1 CHEM2319 Recitation for CHEM2311 0 CHME2000 Intro. to Eng'g. Co-op 1 CHME2310 Transport Processes 1 4 [BIOL 1115 or PHYS 1155] [General Biology 1 for Engrs. OR Physics for Engrs. 2, 4/5 PHYS 1156 Lab for PHYS1155, and PHYS 1157 Interactive Learn Sem. for PHYS1155]	CHEM2313 Organic Chem. 2 4 CHEM2314 Lab for CHEM2313 1 CHEM2320 Recitation CHEM2313 0 CHME2320 ChE Thermodynamics 1 4 CHME3312 Transport Processes 2 4 Elective General Elective 3 4	Elective Graduate Course #1 4 Elective Advanced Science Elective 4	Co-op
Year 2 MD	MATH2341 Diff. Eq./Lin. Alg. 4 CHEM2311 Organic Chemistry 1 4 CHEM2312 Lab for CHEM2311 1 CHEM2319 Recitation for CHEM2311 0 CHME2000 Intro. to Eng'g. Co-op 1 CHME2310 Transport Processes 1 4 [BIOL 1115 or PHYS 1155] [General Biology 1 for Engrs. OR Physics for Engrs. 2, 4/5 PHYS 1156 Lab for PHYS1155, and PHYS 1157 Interactive Learn Sem. for PHYS1155]	ENGW3302 Adv Writing in the Tech Prof <i>(to be taken online)</i> 4 Co-op	Co-op	CHEM2313 Organic Chem. 2 4 CHEM2314 Lab for CHEM2313 1 CHEM2320 Recitation CHEM2313 0 CHME2320 ChE Thermo. 1 4
Year 3 MC	ENGW3302 Adv Writing in the Tech Prof <i>(to be taken online)</i> 4 Co-op	CHME3000 Prof. Issues in Eng'g. 1 CHME3315 Chem. Eng. Lab 1 4 CHME3322 ChE Thermodynamics 2 4 CHME4510 ChE Kinetics 4 CHME4701 Cpstn 1: Sep. & Proc. Anlys. 4	Elective Graduate Course #2 4 Elective Graduate Course #3 4	Co-op
Year 3 MD	CHME3000 Prof. Issues in Eng'g. 1 CHME3312 Transport Processes 2 4 CHME3315 Chem. Eng. Lab 1 4 CHME3322 ChE Thermodynamics 2 4 Elective Graduate Course #1 4	Co-op	Co-op	Elective General Elective 3 4 Elective Graduate Course #2 4
Year 4 MC	Co-op	CHME4315 Chem. Eng. Lab 2 4 CHME4512 ChE Process Control 4 CHME4703 Cpstn 2: Chem. Proc. Design 4 Elective Graduate Course# 4 4		
Year 4 MD	CHME4315 Chem. Eng. Lab 2 4 CHME4510 ChE Kinetics 4 CHME4701 Cpstn 1: Sep. & Proc. Anlys. 4 Elective Advanced Science Elective 4	CHME4512 ChE Process Control 4 CHME4703 Cpstn 2: Chem. Proc. Design 4 Elective Graduate Course #3 4 Elective Graduate Course #4 4		

Revised 12/14/2017

You will need to have AP credit for Calc. AB (MATH1341 - Calculus 1 - 4 SH) - see advisor

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Electives may be interchanged. Please consult with your advisor in 220SN, 617-373-2154

NUpath Requirements through General Electives- Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

Advanced Science Elective Requirements: Students can choose between BIOL2301, BIOL2327, BIOL3611/12, BIOL3606, CHEM2321/22, CHEM2332/32, CHEM2341/42, CHEM3403/04, CHEM 3501, CHEM4621/4622, CHEM4628/29, EEMB 2302/2303, EEMB 2610/2611, PHYS2303, PHYS3601. Students must meet all prerequisite requirements to enroll in these courses and enroll in co-requisite labs if applicable.

Advanced Engineering Elective Requirements: Must be 4000-5999 level engineering course; may be within BIOE, CHME, CIVE, EECE, ME, IE, MEIE, ENGR. A faculty approved undergraduate research project can be substituted for this requirement. Research must be 4 Semester Hours and the Chemical Engineering Undergraduate Education Committee must approve project prior to registration. Proper registration form will be required; please see advisor for more details.

The registrar's website provides a listing of degree requirements and DARS provides a degree audit utility for students.

MASTER OF SCIENCE IN CHEMICAL ENGINEERING CURRICULUM

	FALL	SPRING
PlusOne Year	Graduate Course #5 4 Graduate Course #6 4	Graduate Course #7 4 Graduate Course #8 4

Please note: CHME 7320 Math and CHME 7330 Thermodynamics are offered FALL semesters only. CHME 7340 Kinetics and CHME 7350 Transport Phenomena are offered SPRING semesters only.

For more information about the PlusOne program or for assistance with applying to the program, please contact the Graduate Student Services Team at support@husky.desk-mail.com.