

COMBINED MAJOR IN CHEMICAL ENGINEERING AND PHYSICS
BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING
CURRICULUM OUTLINE - Class of 2021

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1341 Calculus 1 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	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1502 Cornerstone Eng'g 2 4 Elective General Elective 1 4	PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 Elective General Elective 2 4	Vacation
Year 2 AA	MATH2321 Calculus 3 for Engrs. 4 CHEM2311 Organic Chemistry 1 (or PHYS2303) 4 CHEM2312 Lab for CHEM2311 1 CHEM2319 Recitation for CHEM2311 0 PHYS2371 Electronics 3 PHYS2372 Electronics Lab 1 CHME2308 ChE Conservation Princ. 4	MATH2341 Diff. Eq./Lin. Alg. 4 PHYS2303 Modern Physics (or CHEM2311/2312/2319) 4 CHME2000 Intro to Eng'g. Co-op 1 CHME2310 Transport Processes 1 4 CHME2311 Lab for CHME2310 2 CHME2320 ChE Thermodynamics 1 4	Vacation	Co-op
Year 3 AA	Co-op	CHEM2313 Organic Chemistry 2 4 CHEM2314 Lab for CHEM2313 1 CHEM2320 Recitation for CHEM2313 0 CHME3312 Transport Processes 2 4 CHME3313 Lab for CHME3312 2 CHME3322 ChE Thermodynamics 2 4 BIOL1115 Biology 4	PHYS3600 Adv. Physics Lab 4 ENGW3302* Adv. Writing for Prof. 4	Co-op
Year 4 AA	Co-op	PHYS3601** Classical Dynamics 4 PHYS3602 Electricity & Magnetism 4 CHME3000 Prof. Issues in Eng'g. 1 CHME4510 ChE Kinetics 4 CHME4701 Cpstn 1: Sep. & Proc. Anlys. 4	Vacation	Co-op
Year 5 AA	Co-op	PHYS5115 Quantum Mechanics 4 PHYS5318 Adv. Phy. Lab 2 4 CHME4703 Cpstn 2: Chem. Proc. Design 4 Elective Adv. Eng'g Elective 4		

Revised 05/24/16

* [ENGW3315](#) is an acceptable substitution for engineering majors.

** **PHYS 3601 Classical Dynamics** is offered fall and spring semesters of even years only. Please meet with academic advisor to discuss scheduling options for Year 4 of odd years.

NUpath Requirements: 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 General Electives to do so.

General Electives are academic, non-remedial, non-repetitive courses.

Advanced Engineering Elective Requirements: Must be 4000-5999 level engineering course; may be within CHME, CIVE, EECE, ME, IE, MEIE, ENGR. A faculty approved undergraduate

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