

COMBINED MAJOR IN CHEMICAL ENGINEERING AND PHYSICS
BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING
CURRICULUM OUTLINE - Class of 2022

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	CHME2308 ChE Conservation Princ. 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	PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 MATH2321 Calculus 3 for Engrs. 4	Vacation
Year 2 AA	CHME2320 ChE Thermodynamics 1 4 PHYS2371 Electronics 3 PHYS2372 Electronics Lab 1 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 CHME3322 ChE Thermodynamics 2 4 PHYS2303 Modern Physics 4 General Elective 4 CHME2310 Transport Processes 1 4	Vacation	Co-op
Year 3 AA	Co-op	CHME3312 Transport Processes 2 4 CHME3315 Chem. Eng. Lab 1 4 CHEM2313 Organic Chemistry 2 4 CHEM2314 Lab for CHEM2313 1 CHEM2320 Recitation for CHEM2313 0 PHYS3601** Classical Dynamics 4	PHYS3600 Adv. Physics Lab 4 ENGW3315* Adv. Writing for Prof. 4	Co-op
Year 4 AA	Co-op	CHME3000 Prof. Issues in Eng'g. 1 CHME4315 Chem. Eng. Lab 2 4 CHME4510 ChE Kinetics 4 CHME4701 Cpstn 1: Sep. & Proc. Anlys. 4 PHYS3602 Electricity & Magnetism 4	Vacation	Co-op
Year 5 AA	Co-op	CHME4703 Cpstn 2: Chem. Proc. Design 4 PHYS5115 Quantum Mechanics 4 PHYS5318 Adv. Phy. Lab 2 4 Elective Adv. Eng. Elective 4		

Revised 8/2/17 RJW

* [ENGW3302](#) 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 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.