

**COMBINED MAJOR IN MECHANICAL ENGINEERING AND PHYSICS
BACHELOR OF SCIENCE 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 PHYS1161 Physics 1 4 PHYS1162 Physics 1 Lab 1 GE 1000 Intro to Eng'g 1 GE 1501 Cornerstone Eng. 1 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1165 Physics 2 4 PHYS1166 Physics 2 Lab 1 GE 1502 Cornerstone Eng. 2 4 ENGW1111 College Writing 4	Vacation	Vacation
Year 2 AA	MATH2321 Calculus 3 for Engrs. 4 MATH2341 Diff. Eq./Lin. Alg. 4 PHYS2371 Electronics 4 PHYS2372 Electronics Lab 0 ME2350 Eng'g Mech & Design 4	PHYS2303 Modern Physics 4 MEIE2000 Intro to Eng'g., Coop 1 ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4	Vacation	Co-op
Year 3 AA	Co-op	PHYS3602 Elect. & Magnetism 4 ME3455 Dyn. & Vibration 4 ME3456 Lab for ME3455 1 ME4508 ME Computation 4 *ENGW3302 Adv. Writ. in the Tech. Prof. 4	ME3475 Fluid Mech. 4 PHYS3600 Adv. Physics Lab 4	Co-op
Year 4 AA	Co-op	**PHYS3601 Classical Dynamics 4 MEIE3000 Prof. Issues in Eng'g. 1 ME4505 Meas. Analysis. Thermal 4 ME4506 Lab for ME4505 1 ME4555 Syst. Analysis & Control 4 ME4570 Thermal Sys. Analysis Design 4	ME4550 ME Design 4 MEIE4701 Capstone Design 1 General Elective 4	Co-op
Year 5 AA	Co-op	MEIE4702 Capstone Design 2 5 PHYS5318 Principles of Exp. Physics 4 PHYS xxxx Adv. Physics Elective 4 General Elective 4		

Revised 5/24/2016

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

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 use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

** **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.

Advanced physics electives: (PHYS 4606, PHYS 4621, PHYS 4623, PHYS 4651, PHYS 4652, PHYS 5111, PHYS 5113, PHYS 5114, PHYS 5116, PHYS 5260)

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

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