CURRICULUM GUIDE

Physics, B.S. (General Physics Concentration) 2023-2024

Website: www.physics.eku.edu Email Contact: jessica.lair@eku.edu Department of Physics, Geosciences & Astronomy 521 Lancaster Ave. 3140 New Science Bldg. Richmond, KY 40475 859-622-1521

The schedule below is an **EXAMPLE** of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made.

	Fall Semester		Spring Semester		Course	Course Name
			opg comester		Number	course rearrie
Freshman	SCO 100P	1	CHE 112	3		ATION & UNIVERSITY REQUIREMENTS (37)
Year	^G CHE 111 (fulfills Gen. Ed. 4)	3	CHE 112L	1	GENERAL EDGG	ATION & ONIVERSITY RECORDINE WENTS (37)
Tear	CHE 111L	1	MAT 244	4	SCO 100P	Student Success Seminar in Physics (1)
	§ G MAT 234 (fulfills Gen. Ed. 2)	4	PHY 201	5		(24)
	Gen. Ed. 1A (<i>ENG 101</i>)		Gen. Ed. 1B (<i>ENG 102</i>)	3		REQUIREMENTS (21)
	Gen. Ed. 4 (<i>Nat. Sci.</i>) (<i>AST 335</i>	3			PHY 201	University Physics I (5)
	recommended)	3			PHY 202	University Physics II (5)
					PHY 211	Intermediate Physics (4)
	TOTAL	15	TOTAL	16	PHY 302	Modern Physics (4)
Sophomore	MAT 254	4	CSC 174	3	PHY 406	Advanced Physics Laboratory (3)
•	MAT 353	3	PHY 211	4	GENERAL PHYSI	CS CONCENTRATION REQUIREMENTS (22)
Year	PHY 202	5	Gen. Ed. 3A (Arts)	3		
	Gen. Ed. 1C (Oral Comm.)	3	Gen. Ed. 3B (Humanities)	3	PHY 310	Theoretical Methods in Physics (3)
	, , ,		Gen. Ed. 5B (Soc. & Behav. Sci.)	3	PHY 421	Electricity and Magnetism I (3)
			, i		PHY 422	Electricity and Magnetism II (3)
		1/			PHY 456	Statistical and Thermal Physics (3)
	TOTAL	15	TOTAL	16	PHY 460	Classical Mechanics (4)
			100		PHY 470	Quantum Mechanics (3)
Junior	PHY 302	4	PHY 406	3		B) HOURS selected from any PHY course or above, except PHY 506.
Year	PHY 310	3	PHY 460	4	numbered 300 (or above, except PHT 506.
Tear	† PHY Elective (upper division)	3	Gen. Ed. 6 (<i>Diversity</i>)	3	SUPPORTING CO	OURSE REQUIREMENTS (20)
	Gen. Ed. 5A (History)	3	Free Elective (upper division)	3	「 ^G CHE 111	General Chemistry I (3)
			Free Elective	3	CHE 111L	General Chemistry Lab I (1)
					CHE 112	General Chemistry II (3)
					CHE 112L	General Chemistry Lab II (1)
					‡ CSC 174	Intro. to Programming for Science and
	TOTAL	13	TOTAL	16	•	Engineering (3)
	PHY 421	3	PHY 422	3	^G MAT 234	Calculus I (4)
Senior	PHY 456	3	PHY 470	3	MAT 244	Calculus II (4)
Year	Gen. Ed. 6 (<i>Diversity</i>)	3	Free Elective	4	MAT 254	Calculus III (4)
	Free Elective (upper division)	3	Free Elective	4	MAT 353	Differential Equations (3)
	Free Elective (upper division)	3	Free Elective	4	Drackata	ed itams must be taken consurrently
	Free Elective (upper division)	3			Бгискеце	ed items must be taken concurrently.
					‡ or any departr	mentally approved programming language
					course.	
	TOTAL	4-	TOTAL		FREE ELECTIVES	(20)
	TOTAL	15	TOTAL	14	l I	lit hours from this course are/can be applied to fulfi
						nent. Courses used to fulfill Gen. Ed. 4 must have
		TOTAL H	OURS TO DEGREE COMPLETION	120	different prefixes.	

^{*} PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division PHY courses. MAT 122, 234, and/or 244; CHE 111/111L. See University catalog for details.

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300-level or above) courses distributed throughout major/Supporting/Gen Ed/Free Electives categories. If 300-level classes are taken for Gen. Ed., they can be used to fulfill the 42 hours instead of upper division free electives.

Refer to the University Catalog at http://www.catalogs.eku.edu/ regarding University and General **Education Requirements.**

[§] A preparatory course in mathematics may be required before admission to MAT 234.