

Sample 3-Year Plan: Physics B.A, for Pre-engineering Students

Fall Semester		Spring Semester	
PHY 100 Science, Engineering & Design	1	MAT 229 Calculus II	5
MAT 129 Calculus I	4	PHY 224 University Physics with Laboratory III	4
PHY 220 University Physics with Laboratory I	4	CMST 101 Public Speaking	3
ENG 101	3	EGT 212	3
Gen Ed	3		
Total	15	Total	15
Fall Semester		Spring Semester	
MAT 329 Calculus III	4	MAT 325 Differential Equations	3
PHY 222 University Physics with Laboratory II	4	PHY 310 Dynamics/PHY 360 Thermodynamics	3
PHY 361 Modern Physics I	3	Elective*	3
PHY 300 Intermediate Physics Laboratory	2	ENG 291 Advanced College Writing	3
Gen Ed	3	Gen Ed	3
Total	16	Total	15
Fall Semester		Spring Semester	
PHY 305 Statics	3	PHY 310 Dynamics/PHY 360 Thermodynamics	3
CHE120 General Chemistry I	3	CHE121 General Chemistry II	3
CHE 120L General Chemistry I Laboratory	1	CHE 120L General Chemistry II Laboratory	1
Gen Ed	3	PHY 494 Physics Seminar	1
Gen Ed	3	MAT 234 Linear Algebra*	3
		Gen Ed	3
Total	13	Total	14

*MAT 234 can be transferred as Science/Engineering/Math Elective for Chemical, Civil, Computer Eng./Science, Electrical, Materials, Mechanical Engineering.

After completing these courses, pre-engineering students can transfer to either UK or UoL to complete all the required engineering courses that would take additional 2 years. At the end of 5th year, students will receive one degree in Physics from NKU and another degree in Engineering from either UK or UoL.