Engineering Physics Sample Schedule

	Total Credit Hours	Term: 1	2	3	4	5	6	7	8
Subjects required by all programs (55 hours)									
Mathematics 115, 116, 215, and 216	16	4	4	4	4	-	-	-	-
Engr 100, Intro to Engr	4	4	-	-	-	-	-	-	-
Engr 101, Intro to Computers[1]	4	-	4	-	-	-	-	-	-
Chemistry 125/126 and 130 or Chemistry 210 and 211[2]	5	5	-	-	-	-	-	-	-
Physics 140 with Lab 141; Physics 240 with Lab 241[3]	10	-	5	5	-	-	-	-	-
Intellectual Breadth	16	4	4	4	4	-	-	-	-
Advanced Mathematics (3 hours)									
Mathematics Electives (3 hours)[4]	3	-	-	-	-	-	-	3	-
Related Technical Subjects (8 hours)									
MATSCIE 250, Princ of Eng Materials or MATSCIE 220, Intr	4	-	-	4	-	-	-	-	-
EECS 314, Elect Cir, Sys, and Appl or EECS 215, Intro to Cir	4	-	-	-	4	-	-	-	-
Physics Technical Subjects (23 hours)									
Physics 340, Waves, Heat and Light	3	-	-	-	3	-	-	-	-
Physics 351, Methods of Theoretical Physics I[5]	3	-	-	-	-	3	-	-	-
Physics 390, Intro to Modern Physics or NERS 311, Ele of N	3	-	-	-	-	3	-	-	-
Physics 401, Int Mech[6]	3	-	-	-	-	-	3	-	-
Physics 405, Int Elect and Mag	3	-	-	-	-	-	-	3	-
Physics 406, Stat/thermal Physics	3	-	-	-	-	-	-	-	3
Physics Lab Elective or Directed Study with Research Lab	2	-	-	-	-	2	-	-	-
Physics Elective (300-level or higher)	3						3		
Engineering Concentration (20 hours)[7]									
Engineering Electives	16	-	-	-	-	4	4	4	4
Engineering Laboratory Elective (400-level or higher)	4	-	-	-	-	-	-	-	4
Technical Electives (7 hours)[8]									
Mathematics, Physics or Engr Courses (300-level or higher	7	-	-	-	-	-	4	3	-
General Electives (12 hours)	12	-	-	-	-	3	3	3	3
Total	128	17	17	17	15	15	17	16	14

Revised 2-2024

Candidates for the Bachelor of Science in Engineering in Engineering Physics - B.S.E. in Eng Physics - must complete the program listed above. This sample Notes:

1. EECS 180 credit (Exam/Transfer Introductory Computer Programming) will not meet the programming requirement on its own. Students must also select from Engr 190-002, Engr 101, Engr 151, or EECS 280.
2. If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams or transfer credit from another institution for Chemistry 130/125/126 you will have met the Chemistry Core Requirement for CoE.
3. If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams or transfer credit from another institution for Physics 140/141 and 240/241 you will have met the Physics Core Requirement for CoE.
4. Math Electives must be 300-level or higher.
5. NERS 320 can be used as a subsitute, as well as possibly other similar courses, subject to Undergraduate Chair approval.
6. For students pursuing ME in Engr Technical Elecives, CEE 211 or ME 240 will be advised as a substitute for Physics 401. MECHENG 440 or MECHENG 540 can be substituted with faculty program advisor approval.
7. Engineering Electives are to be chosen in consultation with the Undergraduate Chair to form a coherent sequence that clearly defines professional goals for the student. Sample elective sequences for a number of different subject areas are available from the academic or faculty advisors.
8 .Students contemplating graduate studies in Physics should elect Physics 453, Quantum Mech and Physics 463, Solid State for a complete background.