ENGINEERING PHYSICS

FIRST YEAR
FALL
MATH 1004 Calculus for Eng. Students
PHYS 1001 Foundation of Physics I
CHEM 1101 Chemistry for Eng. Students
ECOR 1057 Engineering Profession (0.0 credit)

WINTER
MATH 1104 Linear Algebra for Eng. Students
PHYS 1002 Foundation of Physics II
ECOR 1055 Introduction to Engineering Disciplines I (0.0 credit)
ECOR 1056 Introduction to Engineering Disciplines II (0.0 credit)

SECOND YEAR
FALL
MATH 1005 Differential Equations & Infinite Series for Eng. Students
PHYS 2604 Modern Physics I
ECOR 1047 Visual Gmms (0.25 credit)
CCDP 2100 Communication Skills for Eng. Students

WINTER
MAAE 2400 Thermodynamics & Heat Transfer
PHYS 2202 Wave Motion Physics
ECOR 1046 Mechanics (0.25 credit)
ECOR 1054 Computation & Prog. (0.25 credit)

THIRD YEAR
FALL
MATH 3705 Mathematical Methods I
PHYS 3701 Elements of Quantum Mechanics
ELEC 2507 Electronics I
PHYS 2004 Data Management (0.25 credit)

WINTER
ELEC 3105 Electromagnetic Fields
PHYS 3807 Mathematical Physics
ELEC 3907 Engineering Project
ECOR 1044 Mechatronics (0.25 credit)

FOURTH YEAR
FALL
ELEC 4908 Engineering Physics Project (note c) (1.0 credit)
PHYS 4707 Introduction to Quantum Mechanics I
ELEC 3509 Electronics II
PHYS 4220 Modern Physics III

WINTER
ELEC 3500 Digital Electronics
PHYS 4807 Electromagnetic Waves
PHYS 4007 4th Year Physics Lab

Notes:
(a) 0.5 credit in one of: PHYS 4203, PHYS 4208, PHYS 4409, PHYS 4508, PHYS 4706, or PHYS 4807.
(b) 0.5 credit in Electronics (ELEC) at the 4000 level excluding: ELEC 4504, ELEC 4600, ELEC 4701, and ELEC 4705.
(c) Students must complete all first and second year courses, as well as 3.5 credits of third year courses (with the exception of Complementary Studies Elective) to enroll in ELEC 4908 (Engineering Physics Project).
(d) ECOR 4995 can be taken in Fall or Winter term, if elective options allow for it.

*“2nd”, “3rd” or “4th” designation above a course defines 2nd, 3rd or 4th year status as a prerequisite
*dashed arrow indicates concurrent prerequisite, dashed box indicates zero credit course
weeks 1-6
weeks 7-12