

(Electrical) ENGINEERING COURSE ROADMAP

Prerequisite Courses Major Courses MATH: 1st Semester 2nd Semester 3rd Semester 4th Semester MATH 3A College Algebra (4) MATH 7 (F/S) MATH 5B (F/S) MATH 5A (F/S/Su) MATH 6 (F/S) Differential Math Analysis II Math Analysis I (5) Math Analysis III Equations (4) MATH 4A Trigonometry MATH 26 (F/S) **Elementary Linear** Algebra (3) PHYSICS: PHY 4B (F only) PHYS 4A (F/S) PHY 4C (S only) Physics for Physics for Physics for Scientists and Scientists and Scientists and Engineers (4) Engineers (4) Engineers (4) ENGR 5 (S only) **ENGINEERING &** ENGR 6 (S only) ENGR 10 (F/S) Programming and **Engineering Circuits COMPUTER SCIENCE:** Introduction to Problem Solving in Engineering (2) MATLAB (3) ENGR 12 (F only) Digital Logic (4) CSCI 40 (F/S) Programming Concepts and Methodology I (4) CHEMISTRY: CHEM 1A (F/S)* CHEM 101P or one year High School Chemistry w/ lab General Chemistry (5) **ENGLISH:** ENGL 126R ENGLISH 1A (F/S/Su) **College Reading Skills** Reading and composition (4) Pre-requisite courses ENGL 125W **College Writing Skills** Co-requisite courses Course offerings: (F) Fall, (S) Spring, (Su) Summer **NOTE:** Academic requirements may differ with transfer institutions. * CHEM 3A may be taken in place of CHEM 1A for This is not a substitute for a detailed Student Education Plan. transfer to Fresno State only