ECE 201 Checklist

The following skills are recommended for ECE 201 – Introduction to Signal Analysis. Choose your textbook from the dropdown menu

Once you have chosen the textbook, click on the words “study plan”. Expand the Chapter + to see the individual sections. For each section below, work through the exercises. If you need help with an exercise, you can click on the menu to the right of the exercise for help, to view an example or to read the related section of the textbook. This textbook does not offer video instruction.

Textbook: Croft: Mathematics for Engineers, 3e EMA

☐ Chapter 5 – Basic Algebra
   Sections 5.1-5.7 Exponents, Arithmetic of Algebraic Fractions, Formulae and Transpositions

☐ Chapter 6 – Functions
   6.5 Parametric Representation of a function
   6.6 Describing Functions
   6.7 The Straight Line
   6.8 Common Engineering Functions

☐ Chapter 7 – Polynomial Equations, Inequalities, Partial Fractions and Proportionality
   Sections 7.1-7.7

☐ Chapter 8 – Logarithms and Exponents
   Sections 8.1-8.4

☐ Chapter 9 – Trigonometry
   Sections 9.1-9.7 Angles, Trigonometric Ratios, Identities, Equations and Engineering Waves

☐ Chapter 11 – Complex Numbers
   11.1 Arithmetic of Complex Numbers
   11.2 Polar form of complex numbers
   11.3 Exponential form of complex numbers
   11.4 De Moivre’s Theorem
   11.5 Finding roots of complex equations
   11.6 Phasors

☐ Chapter 14– Vectors
   Sections 14.1-14.5