

## **ECE 201 Checklist**

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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