ECE 102 Study Materials

Please review the following textbook: Sedra and Smith, Microelectronic Circuits, 7th ed., Oxford, 2015.

The subjects covered by ECE102 within recent years:

- MOS Device Physics
- Small Signal Model
- SPICE, CAD Tutorial
- Elementary Amplifier Configurations
- Discrete MOS Amplifiers & Biasing
- Multistage Amplifiers
- Differential Amplifiers
- Frequency Response

The ECE102 MS Comprehensive Exam only executes two to three major questions with some sub-questions within a limited amount of exam time duration. Therefore, not all of the subjects listed above will be covered in the exam.