|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EE101 Winter 2018 Quarter** | Topic | Textbook\*Read | HW | 15 minute Quiz  (Near the end of the class) |
| 1. Jan. 8 M | Basic Concepts-  units, voltage, current, flux, charge | Chap. 1 | HW#1 |  |
| 1. Jan. 10 W | Active devices and models, passive elements, sources |  |  |  |
| 1. Jan. 12 F | Linear vs. Nonlinear, Phasors |  |  |  |
| Jan. 15 M | Martin Luther King’s Day |  |  |  |
| 1. Jan. 17 W | Basic Laws-Ohm’s Law, Kirchhoff’s Laws (KCL, KVL) | Chap.2 | HW#2 | Qz#1 |
| 1. Jan. 19 F |  |  |  |  |
| 1. Jan. 22 M | Analysis Methods-Nodal analysis, Loop analysis | Chap. 3 | HW#3 | Qz#2 |
| 1. Jan. 24 W |  |  |  |  |
| 1. Jan. 26 F |  |  |  |  |
| 1. Jan. 29 M | Circuit Theorems-Thevenin’s theorem, Norton’s theorem, | Chap. 4 | HW#4 | Qz#3 |
| 1. Jan. 31 W |  |  |  |  |
| 1. Feb. 2 F |  |  |  |  |
| 1. Feb. 5 M | OP Amplifiers | Chap. 5 | HW#5 | Qz#4 |
| 1. Feb. 7 W |  |  |  |  |
| 1. Feb. 9 F |  |  |  |  |
| 1. Feb.12 M | Midterm Exam | (one page of formulas, tables allowed) |  |  |
| 1. Feb.14 W | Capacitors, Inductors | Chap. 6 | HW#6 | Qz#5 |
| 1. Feb. 16 F |  |  |  |  |
| Feb.19 M | Presidents’ Day |  |  |  |
| 1. Feb.21 W | Magnetically coupled circuits-  Transformers | Chap. 13 | HW#7 | Qz#6 |
| 1. Feb.23 F   (Continued) |  |  |  |  |
| 1. Feb.26 M | First-order circuits-  RL, RC circuits and filters | Chap. 7 | HW#8 | Qz#7 |
| 1. Feb. 28 W |  |  |  |  |
| 1. Mar. 2 F |  |  |  |  |
| 1. Mar. 5 M | Second-order circuits- RLC circuits and filters | Chap. 8 | HW#9 | Qz#8 |
| 1. Mar. 7 W |  |  |  |  |
| 26. Mar.9 F |  |  |  |  |
| 1. Mar.12 M | Bode Plots |  | HW#10 | Qz#9 |
| 1. Mar. 14 W |  |  |  |  |
| 1. Mar.16 F | Course Review |  |  |  |
| FINAL Mar. 20  4-7 p.m. |  |  |  |  |
|  |  |  |  |  |

**Course Grading**

* HWs are assigned electronically, not collected for grading.
* Instead weekly 15minute-quizzes will be given based on HW assignments

(top 7 scores out of 9 will be counted- 20% weight toward the final grade)

* One midterm (30% weight toward the final grade).
* Final examination score (50% weight toward the final grade).

Course Materials

* Textbook- eBook

Charles K. Alexander and Matthew N. O. Sadiku, Fundamentals of Electric Circuits (6th edition)