

EE4382/EE5306
ANTENNA ENGINEERING
SYLLABUS

<i>Classroom</i>	CCSB 1.0204 Tuesdays and Thursdays 7:30 – 8:50 AM
<i>Instructor</i>	Dr. Benjamin C. Flores Professor of Electrical Engineering
<i>Office</i>	Engineering A314
<i>Office Hours</i>	TBA
<i>Textbook</i>	Antenna Theory – Analysis and Design by Constantine Balanis, Fourth Edition, Wiley Available as an e-book
<i>Other</i>	Scientific/Graphics calculator, laptop, access to MATLAB

LEARNING OUTCOMES

By the end of the semester, the student will be able to:

- 1) Understand fundamental antenna concepts
- 2) Understand and apply the Friis equation for communication links
- 3) Derive, analyze, compute and plot radiation patterns produced by wire dipoles
- 4) Derive the radiation impedance of wire dipoles
- 5) Build and test a selected wire antenna
- 6) Build and test a VHF-UHF fractal antenna (graduate students only)

REQUIREMENTS

- Academic integrity standards will be observed and maintained at all times. Cases of alleged academic dishonesty will be reported to the Dean of Students (OSCCR).
- Class attendance is mandatory. Four unexcused absences will result in a faculty initiated withdrawal.
- Class timeliness is mandatory. Each tardy appearance may count as an absence.
- Participation in teamwork is required. Unwillingness to collaborate may result in a letter grade reduction.
- Assignments must be turned in at the beginning of the class period on the due date. Late assignments will be penalized with an automatic 10-point deduction.
- Students with special accommodations needs must register with CASS at the beginning of the semester. No exceptions.

FINAL GRADE

For undergraduate students, the final grade will be based on five individual technical reports (20% of grade per report). For graduate students, the final grade will be based on six technical reports (17% of grade per report) and one end-of-semester presentation (20% of grade). Report grades are non-negotiable.

HOLIDAY CALENDAR

Date	Day	Holiday	UTEP Status
September 3, 2018	Monday	Labor Day	Closed
November 22, 2018	Thursday	Thanksgiving Day	Closed
November 23, 2018	Friday	Day after Thanksgiving	Closed

DRAFT