

ECE 684 Microwave Metrology Spring 2011

Instructor	Joseph Bardin Office: 215H Marcus Hall Phone: 413.545.2463 Fax: 413.545.4624 email: jbardin@ecs.umass.edu
Teaching Assistant	Ben Bovee email: bbovee@engin.umass.edu
Office Hours	W 1:00–2:30pm and by appointment
Classroom	Marcus 106 T, R 11:15AM-12:30PM
Laboratory	Marcus 6 TBD
Course Synopsis	This course covers laboratory measurements typical of those used to characterize microwave devices and systems, such as wireless transmitters and receivers, radars, radiometers, etc. This includes network analyzer calibration; measurements of noise in amplifiers, mixers and oscillators; measurements of distortion in amplifiers and mixers; and characterizing the dynamic range of a receiver.
Prerequisites	Microwave Engineering I (ECE 584) or instructor approval
Grading	Laboratory Reports (6): 90% Homework: 10%
Text	Notes and Course Slides—available online
Course Website	spark.oit.umass.edu
Additional References	(1) <i>Microwave Engineering</i> , D. Pozar, John Wiley (2) <i>RF Design Guide: Systems Circuits and Equations</i> , P. Wilmuller, Artech House
