This is a graduate course on the theory and design of very high-speed circuits and systems. Practical applications of microwave circuits for communications systems, biotelemetry, radio/radar imaging and radio astronomy instrumentation will be discussed over the course of the term. The course begins with coverage of fundamental concepts needed for general microwave circuit design and then proceeds to discuss specific circuit concepts.

Pre-requisites – an advanced undergraduate course in analog circuits or permission of instructor.

Coursework – student performance will be evaluated through a term design project, take-home assignments and quizzes.

Lecture duration: – two 75-minute lectures per week. For the specific time and location of the lectures, consult the graduate timetable published on-line on the departmental website.

Course website – course materials such as CAD tutorials, reference materials, assignments, and solutions will be distributed to students through the D2L (Brightspace) content management system.

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