

## Fall 2009 Syllabus

### ECE 304: Analog Integrated Circuit design

<b>Instructor</b>	Janet Wang
<b>Lectures</b>	Mon, Weds 3:00pm-4:15pm in HARV 302
<b>Labs, Exams, Presentations</b>	Fri. 3:00-3:50 Computer Rooms for labs HARV302 for Homework Q&A, exams and makeup lectures
<b>Office hours</b>	Janet Wang: Mon and Weds 10:00am-11:00am, location ECE 559 Ravi Raghav, Jin Sun, HyangTaek: TBA
<b>E-mail</b>	<a href="mailto:wml@ece.arizona.edu">wml@ece.arizona.edu</a> , <a href="mailto:rraghave@email.arizona.edu">rraghave@email.arizona.edu</a> , <a href="mailto:sunj@email.arizona.edu">sunj@email.arizona.edu</a> , <a href="mailto:gudxors@email.arizona.edu">gudxors@email.arizona.edu</a>
<b>Secretary</b>	Caroll Mainvielle, Room: ECE 530
<b>Class web page:</b>	<a href="http://www.ece.arizona.edu/~ece304">www.ece.arizona.edu/~ece304</a>
<b>Course Description</b>	Integrated circuit design flow, Amplifiers, Frequency Response, Feedbacks, A/D and D/A converters
<b>Prerequisites</b>	Circuit theory, Matlab and Microsoft Excel.
<b>Required textbook</b>	Microelectronic Circuits Sedra and Smith
<b>Optional textbook</b>	Razavi: Design of Analog CMOS Integrated Circuits, 2001 Thomas Lee: The Design of CMOS Radio Frequency Integrated Circuits, 1998
<b>Homework</b>	Homework must be turned in on the specified due date. Alternatively, homework papers may be turned in late to the next lecture, with a penalty of 10 percentage points. Homework delivered after that time, or to any other location, will receive a grade of zero. Draw a box around your final answer on each problem, and staple (do not fold) your papers. Requests for a change in a homework grade must be made in writing no later than five school days after the solution and graded homework papers are made available. Perhaps only a subset of the homework problems in a given assignment will be graded. Therefore, when studying for exams, one should rely on the posted homework solutions, rather than the graded homework.
<b>Design Project</b>	All students must complete a design project (Design Lab 3). The final project report is due on last day of classes ( <b>Weds, Dec 9</b> ), 12:00pm (midnight). Please email me the Microsoft word version of you final report. See the class web page for further details about the project requirements. The project report is assumed to represent the student's own work. Any necessary background material taken from elsewhere must be quoted and properly attributed to the original author.
<b>Exams</b>	There will be three mid-term exams and one comprehensive final exam. Calculators are allowed during the exams. A grade of zero will be given for a missed exam. If you are unable to take the exam at the scheduled time due to some unavoidable conflict or emergency (e.g., being hospitalized, in jail, or needing to attend a ceremony to receive the Nobel prize), then you must contact the instructor as soon as possible. Requests for a change in a mid-term exam grade must be made in writing no later than five school days after the solution

	and graded exams are made available.
<b>Videocampus students</b>	Extra time for homework assignments is allowed for video campus students in order to compensate for delays in video delivery, etc. Extensions exceeding one week must be approved in advance.
<b>Grading</b>	Homework 10%, Midterms 30%, Labs 30%, Final 30%
<b>Withdrawal</b>	<b>Sept 18</b> , is the last day to drop the class with deletion of course enrollment from the student's record. After that date, but not after <b>Oct. 18</b> , withdrawals will result in a grade of W or E, depending on the student's performance. (DOUBLE CHECK THE DATE WITH THE U OF A CALENDAR)
<b>Auditing</b>	Audits are permitted.
<b>Academic Integrity</b>	The university's Code of Academic Integrity states that students shall not "represent the work of others as their own." Violations of this policy include, but are not limited to, copying in whole or in part from the solutions from previous semesters or from the solutions manual or from other students (incl. those who took the course in a previous semester). Unless otherwise announced in writing by the instructor, this policy will be applied to all work submitted for a grade: exams, quizzes, projects, homework, computer assignments, lab assignments, writing assignments, etc. The minimum sanction for academic dishonesty on homework is a zero homework grade for the entire semester. The minimum sanction for academic dishonesty on an exam is a grade of E for the course.

Please Check <http://catalog.arizona.edu/calendar/0910cal.html> for all the academic dates changes. This syllabus only reflects all the academic dates on the above website on Aug. 23, 2009.