

<i>Course Description</i>	Microsystem technology (MEMS) is an enabling tool for optical and RF applications. To design microsystems, for its multidisciplinary nature, designers are often challenged by overwhelming demands on understanding in many different subject areas such as mechanics, optics, electromagnetism, circuits, material science, microfabrication, numerical analysis, and so forth, and on ability to weave such knowledge either to invent new designs or to improve the existing ones. The objective of this special topic course is to provide fundamentals in some of the subjects listed above and to present methods to integrate such knowledge in microsystem design, especially for optical and RF applications.
<i>Instructor</i>	Dr. Dooyoung Hah, 229 EE Building. Ph: 578-5532. dyhah@lsu.edu
<i>Lecture</i>	MWF 1:40 – 2:30 AM, 149 EE Building
<i>Office Hours</i>	MW 4:30 – 5:30 PM, TTh 4:00 – 5:30 PM, other times by appointment only
<i>Course Homepage</i>	<a href="http://www.ece.lsu.edu/dyhah/ee7200-1_fall2007/ee7200-1_fall2007.html">http://www.ece.lsu.edu/dyhah/ee7200-1_fall2007/ee7200-1_fall2007.html</a>
<i>Prerequisite or Co-requisite</i>	EE 7240 (Integrated circuit engineering) or consent to instructor
<i>Textbook</i>	Handouts
<i>References</i>	<ul style="list-style-type: none"> <li>✓ Senturia, <i>Microsystem Design</i>, Kluwer, 2000</li> <li>✓ Madou, <i>Fundamentals of Microfabrication</i>, CRC, 2002</li> <li>✓ Rebeiz, <i>RF MEMS</i>, Wiley, 2002</li> </ul> <p>* <i>First two books in reserve section of Middleton library – 1 day check-out</i></p>



learn to think without them!). When allowed, calculators may only be used for simple algebraic and trigonometric operations (i.e. no programmable features).

Quizzes may be given throughout the semester either in the beginning or at the end of lecture but will not be graded.

**Late homework submission will not be accepted and no credits will be given.**

**General Class Procedures and Office Hours:**

Students are responsible for all announcements made in lecture. Course information, announcements and grades will also typically be posted on the course website or on your instructors' door. It is a sound practice to check these locations periodically for important updates and information you may have missed.

Assistance is available from the instructor during office hours; however, do not expect him to do your homework for you! Carefully prepare your questions beforehand and answer as many of them as possible for yourself. Please observe the posted office hours for this course and confine your visits to those time slots. If the posted hours conflict with your schedule, you can make an appointment and alternate arrangements will be made to accommodate you. **DON'T WAIT UNTIL THE LAST MINUTE TO ASK FOR HELP!**

**LEARN TO USE ELECTRONIC MAIL (E-MAIL)!** You are encouraged to use your PAWS computer account and electronic mail as this is a great way to communicate with your instructor for this course. It will improve the response time for most of your questions and effectively extends office hours during which you can get questions answered. Your instructor regularly checks and responds to his email. Students NOT using the PAWS account should have it set to forward all campus correspondence.