

EML 6930
EML 4930

Electronic Materials Manufacturing

- Lecture Section:** TBD
- Textbook:** Introduction to Microelectronic Fabrication, Richard C Jaeger, Second Edition, Prentice Hall
- References** Silicon Processing for the VLSI Era, Volume 1-Processing Technology” S. Wolfe and R. N. Tauber, Second Edition, Lattice Press
Silicon VLSI Technology, “J. Plummer, M. Deal and P. Griffin, Prentice Hall
The Science and Engineering of Microelectronics Fabrication, Stephen Campbell, Oxford Press
- Instructor:** Prof. Ashok Kumar
Department of Mechanical Engineering, and Center for Microelectronics Research
ENB 252, Phone 974-3942, Fax: 974-3610
E-mail: akumar1@eng.usf.edu
- Office Hrs:** A. Kumar: T and R (10:00 a.m. - 11:00 a.m.)
- Goals:** To understand the basic processes involved in microchip fabrication
To gain some practical experience with fabrication of chip technology
- Exams:**
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| Exam 1 | 15% |
| Quiz | 25% |
| Homework | 10% |
| Lab+Report/Attendance | 10% |
| Term Paper | 25% |
| Exam 2 | 15% |
- Homework:** Homework will be assigned periodically. Homework will be graded and solution will be posted on the web.
- Attendance:** Attendance at lectures is highly recommended. Absence from the test and quiz will result zero marks.
- Cheating:** Any student caught cheating receives an automatic zero on the test and may face disciplinary action that can result in dismissal from the university.
- Administrative:** Please bring any administrative problems to my attention quickly. Do not wait until the end of semester. Always bring calculator, textbook, handouts and all lecture notes in the class.

