

Classroom Schedule

Assigned reading is to be completed before the date indicated on this schedule
(AR = A. Rockett, JR = J. Nelson, RW = R. Waser, GL = guest lecture)

date	reading	lecture topic
1/21	—	introduction, syllabus, schedule
1/23	AR 10.2–10.5	kinetic gas theory
1/26	AR 10.7–10.8; 10.12	kinetic gas theory, adsorption
1/28	AR 11.1–11.2	surface diffusion, RHEED
1/30	AR 12.1–12.4	fluid mechanics and CVD
2/2	AR 7.3; 7.3.1–7.3.2	CVD; strain relaxation
2/4	AR 7.3.3–7.3.4	strain relaxation
2/6	AR 5.1	strain relaxation; electronic structure
2/9	AR 5.2	electronic structure
2/11	AR 5.3; 5.5	electronic structure
2/13	—	electronic structure (GL)
2/16	AR 6.1–6.2	semiconductor alloys
2/18	AR 6.3; 6.6	semiconductor alloys
2/20	AR 9.1–9.2	organic semiconductors
2/23	AR 9.3–9.5	organic semiconductors
2/25	—	first hour exam
2/27	JN 4.1–4.3	generation and recombination
3/2	JN 4.4	generation and recombination
3/4	JN 4.5	generation and recombination (first draft of wiki due)
3/6	JN 4.6	generation and recombination
3/9	JN 5.1–5.4	junctions
3/11	JN 5.5–5.7	junctions
3/13	JN 5.8–5.9	junctions
3/16	JN 8.3–8.4	a-Si solar cells (GL)
3/18	—	second hour exam
3/20	—	junctions

date	reading	lecture topic
3/30	—	p-n junctions
4/1	JN 8.1–8.2	thin film solar cells
4/3	JN 8.5	polycrystalline materials
4/6	JN 8.6	heterojunctions
4/8	RW introIII-1.1	logic devices (second draft of wiki due)
4/10	RW introIII-2, introIII-6	logic and thermal management
4/13	—	CIGS solar cells (GL)
4/15	—	no lecture
4/17	—	no lecture
4/20	RW 19.1, 19.2.1–19.2.3	graphene and carbon nanotubes
4/22	RW 19.3, 19.5	CNT growth and logic devices (GL)
4/24	RW 15.1, 15.2	quantum transport
4/27	RW 15.3, 15.4	quantum transport devices
4/29	—	third hour exam
5/1	—	group presentations (final draft of wiki due)
5/4	—	group presentations
5/6	—	group presentations