### January 2020

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#### Lecture Notes
- **21**: Lecture # 1 @ECEB TBD
  
  SUBJECT: INTRO to CLASS
  Syllabus and Policies
  (HWs, Labs, Project, Exams)

- **24**: Lecture # 2 @ECEB TBD
  
  SUBJECT: INTRO to LEDs and Solar Cells
  HW#1 – Assigned

- **29**: Lecture # 4 @ECEB TBD
  
  SUBJECT: Materials, Physics, and Quantum Structures for LEDs and Solar Cells

- **31**: Lecture # 5 @ECEB TBD
  
  SUBJECT: Materials, Physics, and Quantum Structures for LEDs and Solar Cells
  HW#1 – DUE preclass
  HW#2 – Assigned

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#### Special Days
- **No Lecture – M. L. King Day**
- **No Lab – M. L. King Day**

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#### ECEB LAB#1
- **ECEB LAB#1**: Safety Training
## TENTATIVE CALENDAR

**Last Revised on 07/11/2020**

ECEB LAB#2 - >
**SUBJECT: SEM CLASS PROJECT AREA CHOICE**
• (LED or SOLAR)
**DUE: 6:00 PM**

3
Lecture # 6 @ECEB 2013
**SUBJECT: Materials, Physics, and Quantum Structures for LEDs and Solar Cells**

4
5
Computer µ-Lab (EH TBD)
**SUBJECT: BandEng Simulation of semiconductor heterostructures**

6
7
Computer µ-Lab (EH TBD)
**SUBJECT: BandEng Simulation of semiconductor heterostructures &**
Computer Lab # 1 (EH TBD)
**SUBJECT: Quantum Wells**
**HW#2 – DUE preclass**
**HW#3 – Assigned**

8

9
ECEB LAB#2 - >
**SUBJECT: SEM**

10
Lecture # 7 @ECEB TBD
**SUBJECT: LEDs**

11
12
Computer Lab # 1 (EH TBD)
**SUBJECT: Quantum Wells**

13
14
Computer Lab # 1 (EH TBD)
**SUBJECT: Quantum Wells**
**INCLASS QUIZ**
**HW#3 – DUE preclass**
**HW#4 – Assigned**

15

16
ECEB LAB#3 - >
**SUBJECT: LED#1 CLASS PROJECT ABSTRACT**
• (200 words or less)
**DUE: 6:00 PM**

17
Lecture # 8 @ECEB TBD
**SUBJECT: LEDs**

18
19
Lecture # 9 @ECEB TBD
**SUBJECT: LEDs**

20
21
Computer Lab # 2 (EH TBD)
**SUBJECT: LEDs**
**HW#4 – DUE preclass**
**HW#5 – Assigned**

22

23
ECEB LAB#3 - >
**SUBJECT: LED#1**

24
Lecture # 10 @ECEB TBD
**SUBJECT: LEDs**

25
26
Lecture # 11 @ECEB TBD
**SUBJECT: LEDs**

27
28
Computer Lab # 2 (EH TBD)
**SUBJECT: LEDs**
**HW#5 – DUE preclass**
**HW#6 – Assigned**

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<td>2</td>
<td>ECEB LAB#4 -</td>
<td>Lecture # 12 @ECEB TBD SUBJECT: LEDs</td>
<td>Lecture # 13 @ECEB TBD SUBJECT: LEDs</td>
<td>Lecture # 14 @ECEB TBD SUBJECT: LEDs &amp; EXAM REVIEW</td>
<td>Computer Lab (EH TBD) SUBJECT: Open Lab &amp; Project Simulation Support</td>
<td>Computer Lab # 2 (EH TBD) SUBJECT: LEDs – INCLASS QUIZ HW#6 – DUE preclass HW#7 – Assigned</td>
<td>No Lecture to make up for the evening-time midterm HW#7 – DUE preclass HW#8 – Assigned</td>
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<td>No ECEB LABs -</td>
<td>Lecture # 13 @ECEB TBD SUBJECT: LEDs</td>
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<td>Lecture # 12 @ECEB TBD SUBJECT: Solar Cells</td>
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<td>Engineering Open House HW#8 – DUE preclass HW#9 – Assigned</td>
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<td>Lecture # 14 @ECEB TBD SUBJECT: Solar Cells</td>
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| 1   |     |     | **Computer µ-Lab (EH TBD)**  
**SUBJECT:** wxAMPs  
Simulation of Solar Cells |     | 2   |     |     |
|     |     |     | **Computer µ-Lab (EH TBD)**  
**SUBJECT:** wxAMPs  
Simulation of Solar Cells & 
Computer Lab #3 (EH TBD)  
**SUBJECT:** Solar Cells  
HW#9 – DUE preclass  
HW#10 – Assigned |     | 3   |     |     |
| 4   |     |     |     |     |     |     |
| 5   |     | ECEB LAB#5 - >  
**SUBJECT:** SOLAR#1  
CLASS PROJECT OUTLINE  
DUE: 6:00 PM | 6   | Lecture # 15 @ECEB TBD  
**SUBJECT:** Solar Cells | 7   |     |     |     |
| 8   |     |     | **Computer Lab #3 (EH TBD)**  
**SUBJECT:** Solar Cells | 9   |     |     |     |
| 10  |     |     |     |     | **Computer Lab #3 (EH TBD)**  
**SUBJECT:** Solar Cells  
HW#10 – DUE preclass  
HW#11 – Assigned | 11  |     |     |     |
| 12  |     |     |     |     | **Computer Lab #3 (EH TBD)**  
**SUBJECT:** Solar Cells  
HW#11 – DUE preclass  
HW#12 – Assigned |     |     |     |
| 13  |     | **Computer Lab (EH TBD)**  
**SUBJECT:** Open Lab & 
Project Simulation Support  
• Attendance required | 14  |     |     |     |
| 15  |     | **Computer Lab (EH TBD)**  
**SUBJECT:** Open Lab & 
Project Simulation Support  
• Attendance required | 16  |     |     |     |
| 17  |     | **Computer Lab #3 (EH TBD)**  
**SUBJECT:** Solar Cells  
– INCLASS QUIZ  
HW#11 – DUE preclass  
HW#12 – Assigned | 18  |     |     |     |
| 19  |     | **ECEB LAB#6 - >  
SUBJECT:** SOLAR#2  
FINAL CLASS PROJECT  
DUE: 6:00 PM | 20  | **Lecture # 16 @ECEB TBD**  
**SUBJECT:** Latest trends in 
LEDs and Solar Cells | 21  |     |     |     |
| 22  |     | **Project presentations  
@ECEB TBD** | 23  |     |     |     |
| 24  |     | **Project presentations  
@ECEB TBD** | 25  |     |     |     |
| 26  |     | **Project presentations  
@ECEB TBD** | 27  |     |     |     |
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*May 8–15 Final examination period (Details to be announced)*