## Syllabus for 1444-002, Fall 2020

### Online Device Requirements

The link to the zoom class will be sent via email to the addresses listed in MyMav. Need a microphones & a video camera attached to the computer and verified to work prior to the first class.

<table>
<thead>
<tr>
<th>Period</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>Aug. 26 through Sept. 9, 2020</td>
<td>Chapters 21 and 22: Electric charges and electric fields; Gauss' Law</td>
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**Wednesday, Sept. 23, 2020**

First Term Exam (Chapters 21 - 26)

**Weeks of Sept. 28 and Oct. 5, 2020**

Chapters 25 - 26: Electric Current and Resistance; DC Circuits; Magnetism;

**Week of Oct. 12, 2020**

Chapters 27 and 28: DC Circuits; Magnetism; Sources of Magnetic Field;

**Mid-term Comprehensive Exam**

Monday, Oct. 19, 2020 - (Chapters 21 - 28)


Chapters 29 and 30: Electromagnetic Induction and Faraday's Law; AC Circuits

**Weeks of Nov. 2, 2020**

Chapters 31-32: Maxwell's Equations and Electromagnetic Waves; Light: Reflection and Refraction

**Week of Nov. 2, 2020 and Monday, Nov. 9, 2020**

Chapters 33 - 36: Lenses and Optical Instruments; Wave Nature of Light: Interference; Diffraction and Polarization

**Wednesday, Nov. 11, 2020**

Second Non-comprehensive Term Exam (Chap 31 - 36)

**Weeks of Nov. 18 and Nov. 23, 2020**

Chapters 37 - 41: Special Relativity; Quantum Mechanics

**Weeks of Nov. 30 and Dec. 7, 2020**

Chapters 40 - 45: Quantum Mechanics; Selected areas of Modern Physics

**11am, Wednesday, Dec. 16, 2020**

Final Comprehensive Exam (Chap. 21 - 45)

**The above schedule might change depending on progress in the class.**

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