Materials Used in the Class:

2. **TI-89** (or equivalent) or **TI-Nspire CX CAS calculator**. Will be using custom vector calculus tools div, grad, curl and Laplacian, in different coordinate systems after Exam I.
3. **Connect homework registration**: Go to http://connect.mheducation.com/class/ece3610-fall-2017. This semester, you will not be able to make use of your Connect registration from ECE 2500. Go to the bottom of the page where it says “ACCESS CODE or ACCESS ONLINE.” Click “Courtesy Access” to access Connect free for 14 days. New online access costs $100. Most of the assignments and all exams will come from this site.
4. **iClicker Reef**: **Subscription** on iPhone/Android/laptop is required (~$15/sem). Physical remote is not supported.
5. **Elearning**: At GoWMU login. Can view your grades here.

Course Objectives:

Basic electromagnetic (EM) theory, as it applies to the development of the theory of electrical circuits and motors. Also, EM wave theory as it applies to such fields as transmission lines, fiber optics, LCD and 3D displays, antennas and computer graphics rendering.

Course Contents:

- Waves – Ch 1
- Transmission lines – Ch 2
- Fiber optics – Ch 7 (also Exam 1)
- Electrostatics – Ch 3
- Magnetostatics – Ch 4 (Exam 2)
- Dynamic Fields – Ch 5
- Plane Waves – Ch 6
- Antennas – Ch 8
- LCD and AR displays (special materials)
- 3D computer graphics (life-long materials)

Course Policies:

<table>
<thead>
<tr>
<th>Course Component</th>
<th>Percentage</th>
<th>Grade Range</th>
<th>Letter Grade</th>
</tr>
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<tbody>
<tr>
<td>Exam I</td>
<td>25%</td>
<td>91 - 100</td>
<td>A</td>
</tr>
<tr>
<td>Exam II</td>
<td>30%</td>
<td>87 - 90</td>
<td>BA</td>
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<tr>
<td>Homework</td>
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<td>80 - 86</td>
<td>B</td>
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<tr>
<td>Final Exam</td>
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<td>74 - 79</td>
<td>CB</td>
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<tr>
<td></td>
<td>100%</td>
<td>68 - 73</td>
<td>C</td>
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<tr>
<td>iClicker</td>
<td>~3% (bonus)</td>
<td>63 - 67</td>
<td>DC</td>
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<td>58 - 62</td>
<td>D</td>
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<td>0 - 57</td>
<td>E</td>
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(Note: missing an exam results in a zero score for that exam)

The **Final Exam** is:

**Monday December 11th at 10:15 am**

**WMU Honesty Policy:** Attempting to obtain credit for work (lab, hw, exams) done by somebody else is illegal and punishable in this class. You are responsible for making yourself aware of and understanding the policies and procedures in the Undergraduate Catalog that pertain to Academic Honesty. [http://catalog.wmich.edu/content.php?catoid=24&navoid=974](http://catalog.wmich.edu/content.php?catoid=24&navoid=974) These policies include cheating, fabrication, falsification and forgery, multiple submission, plagiarism, complicity and computer misuse.