Prerequisite(s): ECE 447 or ECE 448 or consent of instructor

Course Objectives: This course introduces graduate students to Fiber Optic Communications, in the component level as well as the system level.


Topics:
- Overview of Fiber Optic Communications (2 hours)
- Optical Fibers (12 hours)
- Optical Sources (6 hours)
- Power Launching and Coupling (3 hours)
- Photodetectors (3 hours)
- Optical Receivers (3 hours)
- Digital and Analog Systems (6 hours)
- WDM Concepts and Components (6 hours)
- Optical Networks (3 hours)

Grading/Evaluation:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Make-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Exam</td>
<td>30</td>
<td>(no make-up)</td>
</tr>
<tr>
<td>Term Paper</td>
<td>20</td>
<td>(no make-up)</td>
</tr>
<tr>
<td>Individual Projects and HWs</td>
<td>50</td>
<td>(no make-up)</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

A (100 - 90)  B (89 - 80)  
C (79 - 65)  D (64 - 55)  
F (54 - 0)