Instructor:  
Dr. Tao Lu  
Phone: 250-721-8617  
E-mail: taolu@ece.uvic.ca

Office Hours:  
Days: Monday  
Time: 13:30-16:30  
Location: EOW 321

Lectures:  
A-Section(s): A01 / CRN 30313  
Days: Monday/Thursday  
Time: 11:30-12:50  
Location: ECS 130

B-Section(s):  
Days: Friday  
Time: 14:30-17:30  
Location: ELW

TA: Jooshesh, Afshin  
email: jooshesh@uvic.ca

Required Text:  
Title: Optical Fiber Communications (4th edition)  
Author: Gerd Keiser  
Publisher: McGraw-Hill  
Year: 2011

References:  
Title: Fiber-optic Communication Systems  
Author: Govind P. Agrawal  
Publisher: John Wiley & Sons, Inc.  
Year: 2002

Assessment:  
Assignments: 15%  
Labs: 20%  
Mid-term1: 15%  
Date: Thursday, May 29, 2014  
Mid-term2: 15%  
Date: Thursday, June 26, 2014  
Final: 35%

Note: Failure to complete all laboratory requirements will result in a grade of N being awarded for the course.

Due dates for assignments:  
Two weeks after each assignment is handed out.
The final grade obtained from the above marking scheme will be based on the following percentage-to-grade point conversion:

<table>
<thead>
<tr>
<th>Passing Grades</th>
<th>Grade Point Value</th>
<th>Percentage for Instructor Use Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>9</td>
<td>90 – 100</td>
</tr>
<tr>
<td>A</td>
<td>8</td>
<td>85 – 89</td>
</tr>
<tr>
<td>A-</td>
<td>7</td>
<td>80 – 84</td>
</tr>
<tr>
<td>B+</td>
<td>6</td>
<td>77 – 79</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>73 – 76</td>
</tr>
<tr>
<td>B-</td>
<td>4</td>
<td>70 – 72</td>
</tr>
<tr>
<td>C+</td>
<td>3</td>
<td>65 – 69</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>60 – 64</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>50 – 59</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Failing Grades</th>
<th>Grade Point Value</th>
<th>Percentage for Instructor Use Only</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>0</td>
<td>35 - 49</td>
<td>Fail, conditional supplemental exam. (For undergraduate courses only)</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0 – 49</td>
<td>Fail, no supplemental.</td>
</tr>
<tr>
<td>N</td>
<td>0</td>
<td>0 – 49</td>
<td>Did not write examination, Lab or otherwise complete course requirements by the end of term or session; no supplemental exam.</td>
</tr>
</tbody>
</table>

The rules for supplemental examinations are found on page 80 of the current 2013/14 Undergraduate Calendar.

<table>
<thead>
<tr>
<th>Term in which E Grade Was Obtained</th>
<th>Application Deadline for Supplemental Exam</th>
<th>Supplemental Exam Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>First term of Winter Session (Sept – Dec)</td>
<td>February 28 in the following term</td>
<td>First week of following May</td>
</tr>
<tr>
<td>Second term of Winter Session (Jan – Apr)</td>
<td>June 30 in the following term</td>
<td>First week of following September</td>
</tr>
<tr>
<td>Summer Session (May – Aug)</td>
<td>October 31 in the following term</td>
<td>First week of following January</td>
</tr>
</tbody>
</table>

Deferred exams will normally be written at the start of the student's next academic term; i.e., approximately 4 months following the deferral of the exam.

**Course Description**

1. **Course Objectives**
   - Introduce the major components, topologies and their operational principles of optical communication systems.

2. **Learning Outcomes**
   - Understand the wave propagation behavior in optical devices, be familiar with the functionality of each component and its applications, be able to perform simple modeling and simulation on optical components.

3. **Syllabus**
   - Review of modern optics, fiber waveguiding theory, passive/active optical components such as laser sources, photo detectors, optical amplifiers, optical transmission systems, WDM, SONET, noises in optical communication systems and reduction techniques.
Note to Students:

Students who have issues with the conduct of the course should discuss them with the instructor first. If these discussions do not resolve the issue, then students should feel free to contact the ECE Chair by email or the ECE Chair's secretary to set up an appointment.
Accommodation of Religious Observance
See http://web.uvic.ca/calendar2014/GI/GUPo.html

Policy on Inclusivity and Diversity
See http://web.uvic.ca/calendar2014/GI/GUPo.html

Standards of Professional Behaviour
You are advised to read the Faculty of Engineering document Standards for Professional Behaviour at http://www.uvic.ca/engineering/current/undergrad/index.php#section0-25 which contains important information regarding conduct in courses, labs, and in the general use of facilities.

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult http://web.uvic.ca/calendar2014/FACS/UnIn/UARe/PoAcI.html for the UVic policy on academic integrity.

Plagiarism detection software may be used to aid the instructor and/or TA's in the review and grading of some or all of the work you submit.