Instructor: Dr. Yeqin Huang

Contact Info: Office: Belk 337
Office Hours: Posted on office door
Office Phone: 227-2543
E-mail: yhuang@email.wcu.edu

Meeting Periods: MW 11:00 – 12:15, Belk 365

Course Description: Lightwave fundamentals, theory of optical waveguides, attenuation and dispersion, single and multi mode fiber properties, sources and detectors, modulation, system design and industrial standards.

Course Goals: This course will provide the students with:

1. An understanding of the propagation of optical signals through fiber waveguides.
2. The ability to understand an optical fiber communication system.
3. The ability to read literature in the field of optical engineering and gain background to engage in more advanced studies in the field.

Prerequisites: EE 425 Foundation of Optical Engineering, and PHYS 322, Optics and Materials.


References: Handouts, class notes, library holdings, and worldwide web.

Instructional Approach: Course material will be introduced during lecture. Homework assignments will reinforce material covered in class.

Evaluation: Each student will be evaluated based on performance in the following areas. Respective weights of each performance area are as noted.

- Homework 25%
- Three Tests 45%
- Final exam 30%

CoursEval Dates: April 1 – April 28
Grading Scale:

The grading scale below will be used to determine final grades:

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<thead>
<tr>
<th>Numerical Course Average</th>
<th>Grade Assigned</th>
<th>Numerical Course Average</th>
<th>Grade Assigned</th>
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<tbody>
<tr>
<td>97-100</td>
<td>A+</td>
<td>72 - 77</td>
<td>C</td>
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<tr>
<td>92 – 96</td>
<td>A</td>
<td>70 – 71</td>
<td>C-</td>
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<td>90 – 91</td>
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<td>68 – 69</td>
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<td>B-</td>
<td>0 - 59</td>
<td>F</td>
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<tr>
<td>78 – 79</td>
<td>C+</td>
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Attendance:

Students are required to attend all lectures.

Examinations:

Three exams and a final are anticipated. All exams are closed book and closed notes, unless otherwise stated by the instructor. Calculators are permitted on all exams.

Assignments:

Timely and full completion of assignments is vital to student success in this course. To this end, the following policies will be in effect:

- Students are expected to submit work on time. Assignments submitted after the due date will not be accepted.
- No make-up exams will be given unless the instructor is notified prior to the absence and/or corroborating documentation of the reason for the absence is provided.
- Assignments missed due to an excused absence will be due during the next class period.

Honor Code:

Students are expected to comply with the spirit and intent of the University Academic Honesty Policy as stated in the Undergraduate Catalogue. Visit WCU’s Undergraduate Student Handbook for all related policies and procedures. http://www.wcu.edu/studentd/StudentHandbook. Evidence of academic dishonesty will result in a grade of F (numerically “0”) for that assignment on the first infraction. A second infraction will result in a grade of F for the course.

Disabilities:

Western Carolina University is committed to providing equal educational opportunities for students with documented disabilities. Students who require disability services or reasonable accommodations must identify themselves as having a disability and provide current diagnostic documentation to Disability Services. All information is confidential. Please contact Disability Services for more information at (828) 227-2716, lalexis@wcu.edu or 144 Killian Annex.

Classroom Policies:

The following policies will be in effect during class meetings and project sessions:

- Cell phones must be turned off during class time.
- Drinks, food and tobacco are not permitted in classrooms or laboratories.
- Instant messenger, AOL or other non-instructional software is not permitted on classroom or lab computers. Printing of material in lab which is not course-related is also not permitted.