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OPTI 501 ELECTROMAGNETIC WAVES

[SYLLABUS](#) [TEXTBOOK](#) [ASSIGNMENTS](#)

[ANNOUNCEMENTS](#) [COURSE INFORMATION](#)

[EXAMS & SOLUTIONS](#) [HOMEWORK SOLUTIONS](#)

[QUESTIONS & ANSWERS](#) [PRELIMS EXAMS & SOLUTIONS](#)

COURSE INFORMATION

Time: Tuesdays and Thursdays, 9:30 – 10:45 am

Place: College of Optical Sciences, West Wing Auditorium (307)

Website:

<https://wp.optics.arizona.edu/opti501>

Instructor: Masud Mansuripur, Professor of

CONTACT INFORMATION



**Dr. Masud
Mansuripur**

► Chair of
Optical Data
Storage

Optical Sciences

Office: Meinel Building, Room 638**Phone:** (520) 621- 4879**E-mail:** masud@optics.arizona.edu**Instructor's Office Hours:** Tuesdays and
Thursdays, 2:00 – 3:30 pm

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Teaching Assistant: Mr. Zheng Zhang**(email:** zzhang2024@arizona.edu)**Office hours:** Mondays 3:00 – 4:00 pm (Rm
554, Meinel Bldg., East Wing)Wednesdays 9:30 – 10:30 am
(Rm 554, Meinel Bldg., East Wing)Fridays 2:30 – 3:30 pm (Rm
554, Meinel Bldg., East Wing)

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Required Textbook:**M. Mansuripur, *Field, Force, Energy and Momentum in Classical Electrodynamics*,
Bentham e-books (2011), Revised Edition
(2017). Available for free download from
the UA library.****Reference Books:**1) R.P. Feynman, R.B. Leighton, and M. Sands,
The Feynman Lectures on Physics (Vol. II),
Addison-Wesley, Reading, Massachusetts
(1964).2) D.J. Griffiths, *Introduction to
Electrodynamics*, 4th edition, Addison-Wesley,
Reading, Massachusetts (2012).► Professor of
Optical
Science**Room****Number:**

Meinel 638

Telephone:

520-621-4879

Email:masud@optics.arizona.edu**Mailing****Address:**College of
Optical
Sciences
University of
Arizona
1630 E.
University Blvd.
Tucson, AZ
85721

3) J.D. Jackson, *Classical Electrodynamics*, 3rd edition, Wiley, New York (1999).

4) E. M. Purcell, *Electricity and Magnetism*, 2nd edition, Cambridge, United Kingdom (2011).

5) M. Mansuripur, *Classical Optics and its Applications*, 2nd edition, Cambridge University Press, United Kingdom (2009).

6) M. Born and E. Wolf, *Principles of Optics*, 7th (expanded) edition, Cambridge University Press, United Kingdom (1999).

7) Jin Au Kong, *Electromagnetic Wave Theory*, EMW Publishing, Cambridge, Massachusetts (2000).

8) M.V. Klein, *Optics*, Wiley, New York (1970).

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Homework: Weekly assignments (No late homework will be accepted).

Course Grade:

Homework: **10%**

1st Midterm (in-class, GCRB Rm 130), Tues., Sept. 29 (9:30 – 10:45 am): **25%**

2nd Midterm (in-class, West Wing, Rm 307), Thurs., Oct. 29 (9:30 – 10:45 am): **25%**

Final Exam (in class, GCRB Rm 130), Tues., Dec. 15 (8:00 – 10:00 am): **40%**

All exams: closed book, closed notes, no computers or other electronic devices allowed. Partial credit for work shown.

Academic Integrity According to the Arizona Code of Academic Integrity, <http://web.arizona.edu/~studpubs/policies/cacaint.htm>, "Integrity is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own." Unless otherwise noted by the instructor, work for all assignments in this course must be conducted independently by each student. CO-AUTHORED WORK OF ANY KIND IS UNACCEPTABLE. Misappropriation of exams before or after they are given will be considered academics misconduct. Misconduct of any kind will be prosecuted and may result in any or all of the following: Reduction of grade, Failing grade, Referral to the Dean of Students for consideration of additional penalty, i.e. notation on a student's transcript re. academic integrity violation, etc.

Students with a Learning Disability If a student is registered with the Disability Resource Center, he/she must submit appropriate documentation to the instructor if he/she is requesting reasonable accommodations.

<http://drc.arizona.edu/instructor/syllabus-statement.shtml>

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