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PHYS 314.01: Electromagnetism I

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PHYSICS 314 - Electromagnetism I

Autumn Semester 2000

LECTURES: Mon., Wed., and Fri. 11:10 AM - 12:00 noon
SC Bldg. Rm 230

INSTRUCTOR: Eijiro ("Ebo") Uchimoto
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E-mail address: uchimoto@selway.umt.edu
Office Hours: Mon. 9–10 AM, Tue. 11 AM – 12 noon,
Wed. 3 – 4 PM, Thu. 2 – 3 PM,
Fri. 9 – 10 AM (and by appointment)

NO. OF CREDITS: 3 credits

PREREQUISITE: Phys 301

TEXTBOOK: Introduction to Electrodynamics, 3rd ed. by David J. Griffiths
(Prentice Hall, 1999)

TOPICS: Vector analysis, Dirac delta function, curvilinear coordinates
(Chapter 1 and Appendix A)
Electrostatics (Chapter 2)
Special techniques for calculating potentials (Chapter 3)
Magnetostatics (Chapter 5)
Overview of electric and magnetic fields in matter
(Chapters 4 & 6)

EXAMS: Three mid-term exams (Mon. 9/25, Fri. 10/20, Wed. 11/15)
One final exam (Mon. 12/18)

GRADING: Problem sets 30 %
Mid-term exams 42 % (14 % each)
Final exam 28 %