

PHYSICS Science Electricity & Magnetism 203-NYB-05 (all sections) Fall 2016

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Intensive If a student is attending an intensive course, the student must inform the teacher, within the rst two weeks of class, of the speci c dates of any anticipated absences. con icts

Policy on
religiousStudents who intend to observe religious holidays must inform their teachers in writing as prescribed in
the ISEP Policy on Religious Observance (ISEP Section III-D), within the rst two weeks of the semester.
Forms for this purpose are available from your teacher. Your teacher will inform you of any modi cations
to planned course activities resulting from the teacher's own religious commitments.

Course content

The material to be covered is contained in the following chapters and sections of **Physics for Scientists** and Engineers by Serway & Jewett, 9th edition.

Weeks	Topics	Chapter & Section
1{3	Electric elds	Ch.23: 1{7
3{4	Gauss's law	Ch.24: 1{4
4{6	Electric potential	Ch.25: 1{6 (7 & 8 optional)
7{8	Capacitance and dielectrics	Ch.26: 1{4 (5, 6 & 7 optional)
8{9	Current and resistance	Ch.27: 1, 2, 4{6 (3 optional)
9{10	Direct-current circuits	Ch.28: 1{5
11{12	Magnetic elds	Ch.29: 1{4 (5 & 6 optional)
12{13	Sources of the magnetic eld	Ch.30: 1{5 (6 optional)
13{14	Faraday's law	Ch.31: 1{5 (6 optional)
15	Inductance	Ch.32: 1, 2 (3{5 optional)
	Alternating-current circuits (time permitting)	Ch.33: 1{9

The material to be covered is contained in the following chapters and sections of **Physics for Scientists** and **Engineers by Knight**, **4th edition**.

Weeks	Topics	Chapter & Section
1	Electric charges and forces	Ch.22: 1{5
2{4	The electric eld	Ch.23: 1{6 (7 optional)
5	Gauss' law	Ch.24: 1{6
6{7	The electric potential	Ch.25: 1, 2, 4{7 (3 optional)
7{8	Potential and eld	Ch.26: 1{6 (7 optional)
9	Current and resistance	Ch.27: 1{5
10{11	Fundamentals of circuits	Ch.28: 1{9
12{14	The magnetic eld	Ch.29: 1{8 (9 & 10 optional)
15	Electromagnetic induction	Ch.30: 1{5 (6{8 optional)
	AC circuits (time permitting)	Ch.32

Comprehensive Second-year students can opt to complete the independent study portion of their comprehensive examiexamination nation in this course. (This option is not available in continuing education courses.) The project will be

CQuesions