Syllabus for ISP209, Spring 2003

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Phone: 59200 Ext. 2142(3), Office hrs.: M, W, F; 1:00-4:00.

Lectures:

• Tues. and Thurs., 2:40 - 4:00 pm, in room 1410 BPS (see Course Schedule). Attendance is required; penalties apply for missing lecture (see Grades, below).

Required Course Pack & Tools:

- The required Course Pack, "To Feel a Force ...", Spring Semester 2003 (pink HW pages), will be available by Jan. 7, only at the Student Book Store (SBS), 421 E. Grand River; buy a 3-ring binder for it!
- A calculator with scientific notation may be needed. Algebra is required but trigonometry will be avoided. Review scientific notation in Ch. 2, and conversion of units in Ch. 4. Metric units of length (m) and mass (kg), are used in most cases.

Course Topics:

- Course covers the topics shown in the **Course Schedule** (on the next page).
- Lecture topics follow closely the Course Pack **Reading Assignments**. All topics, presented in the Course Pack or lecture may appear on an exam.

Homework (HW):

- There are 14 homework assignments as indicated in the **Course Schedule**.
- Standardized **Homework Answer Sheets** are included at the back of the Course Pack and are due at 2:40 am in 1410 BPS on the dates (Thursday) shown. Homework submissions (see below) must be on **these standardized sheets** (**reproductions not accepted, so BUY THE COURSE PACK!**).

Exams, in-class quizzes & Grades

- At the beginning of class, you many be asked to pick up **ONE** (your own) "bubble sheet", and return it at the end of class. During class, **quiz questions** (multiple choice, 1 point each) may be asked. Questions are based on lecture, reading, or homework.
- Three, **30–minute exams** (20 points each) will be given in lecture on the dates indicated in the Course Schedule. Each exam covers the chapters indicated.
- There is a 2 hr. final exam (for a total of 180 points. NOTE: There is NO alternate date or time for the Final Exam. Conflicts should be resolved in your other courses.
- <u>Documented</u> medical (or other) excuses for **one** exam, **one** quiz, and **one late** HW assignment (**all HW must be submitted**), are accepted up to one week following the absence; Exams or Final exam will be used to compensate for an *excused* absence.
- HW and grades: HW submitted on time will be graded. Late HW will not be graded. Before the final exam, all homework assignments must be submitted, or an I-grade for the course may be given. Homework grades are weighted to contribute a maximum of 30 points to the course point total.
- Grades are "curved" with the mean point score (out of ~300) receiving a 3.0 grade.
- Frequently check the **WEB** site, **http://www.pa.msu.edu/courses/isp209**, for announcements, HW, exam, and quiz solutions, as well as scores and grades.

ISP209 Schedule Spring 2003

			-	Spring 2000	T	
W	D	Date	L	Title	HW Due	Read Ch.
1	T	Jan. 7	1	Matter, mass, and forces		1
	TH	Jan. 9	2	Elastic forces	1	2
2	T	Jan. 14	3	"		
	TH	Jan. 16	4	Newton's force laws	2	3
3	T	Jan. 21	5	п		
	TH	Jan. 23	6	Hooke's law for ideal springs	3	4
4	T	Jan. 28	7	=		
	TH	Jan. 30	8	" and 30-min. Exam (Ch.1-4)	4	
5	T	Feb. 4	9	Springs do not store force		5
	TH	Feb. 6	10	Springs and gravity	5	6
6	T	Feb. 11	11	"		
	TH	Feb. 13	12	"	6	7
7	T	Feb. 18	13	Gravity and the body		
	TH	Feb. 20	14	"	7	
8	T	Feb. 25	15	Static friction		8
	TH	Feb. 27	16	" and 30-min. Exam (Ch.1-8)	8	
				Spring Break		
9	T	Mar. 11	17			9
	TH	Mar. 12	18			
10	T	Mar. 17	19	"		
	TH	Mar. 20	20	Transfers of energy between PE and KE	9	10
11	T	Mar. 25	21	"		
	TH	Mar. 27	22	Gravitational potential energy	10	11
12	T	Apr. 1	23			
	TH	Apr. 3	24	Momentum, energy, & conservation laws	11	12
13	T	Apr. 8	25	"		
	TH	Apr. 10	26	Changing the momentum of 1 mass	12	13
14	T	Apr. 15	27	" and 30-min. Exam (Ch.1-12)		
	TH		28	Changing a human's momentum	13	14
15	Т	Apr. 22	29			
	TH	Apr. 24	30	" and sample problems from Ch. 13 &14	14	
16	M	Apr. 28		Final Exam 12:45 - 2:45 PM, Place - TBA		
		r		(Lec. 1-30, Ch. 1-14, HW 1-14)		

NOTE: There is NO alternate date or time for the Final Exam. Conflicts should be resolved in your other courses.