MATH-348 — Advanced Engineering Mathematics
Course Syllabus

http://www.mines.edu/Academic/courses/math_cs/math348/ — **Spring 2008**

Text	E. Kreyszig, Advanced Engineering Mathematics, 9th edition, Wiley, New York, 2006
Course Description	Introduction to partial differential equations, with applications to physical phenomena. Fourier series. Linear algebra, with emphasis on sets of simultaneous equations. Prerequisite: MATH225 or equivalent.
Times	Section A : 9:00am-9:50am : Meyer Hall 357 Section B : 10:00am-10:50am : Alderson Hall 162
Instructor Info	Instructor: Scott Strong Office: Chauvenet Hall 278 Email: math348.spring2008@gmail.com Office Phone: 303.384.2446 Office Hours: Tuesday 9:00am to 10:00am and 3:00pm to 4:00pm Thursday 9:00am to 10:00am and 2:00pm to 3:00pm Other times can be made by appointment.
Grading	Exams (2 @ 25% each): 50% 90 - 100% A Final Exam: 30% 80 - 89% B Discretionary: 20% 70 - 79% C Total: 100% 60 - 69% D Below 60% F Examinations will be taken in class and announced at least two weeks prior to testing. Calculators, note-cards and crib sheets will not be allowed. Students are responsible for contacting their instructor about excused absences in advance.
Important Dates	First Day of Class January 9 Last Day to Drop Without a W January 24 Presidents Day (no classes) February 18 Spring Break March 10-14 Last Day To Withdraw March 25 Last Day To Withdraw (Freshman and Transfers) April 25 Engineering Days April 3-4 Final Exam TBA

Tentative Course Schedule

Week of	Section	Week of	Section
January 6	Review	**March 2**	12.6
January 13	11.1, 11.2	**March 16**	12.3, 12.4
January 20	11.3, 11.4	**March 23**	12.9
January 27	11.7, 11.8	**March 30**	12.11
February 3	11.9	**April 6**	7.1, 7.2, 7.3
February 10	Review	**April 13**	7.4, 7.7
February 17	Power Series, BVP	**April 20**	7.8, 8.1
February 24	12.1, 12.5	**April 27**	8.3, 8.4, 8.5

Recommended Problems

Section	Problems	Section	Problems
11.1	2, 3, 6, 9, 11, 17, 18, 19, 22	12.11	4, 5
11.2	1, 5, 7, 9, 11	7.1	5, 7
11.3	2, 3, 12, 13	7.2	3, 5, 8, 13, 19, 20
11.4	2, 9, 11	7.3	1, 4, 8, 16
11.7	3, 7, 9, 14, 15	7.4	2, 4, 6, 7, 14, 20
11.8	1,5 ,6	7.7	5, 6, 13, 15, 16, 19, 24(a,b,c)
11.9	2, 3, 9, 14(a)	7.8	7, 8, 15, 17, 19
12.1	17, 19, 22, 23, 24, 26(c), 27	8.1	3, 5, 13, 14, 16, 19
12.3	2, 9	8.3	5, 7, 10, 17
12.4	12, 17	8.5	5, 6, 9, 12, 16
12.5	13,18	8.4	4, 7, 12, 15, 17
12.9	10, 11		