Approximate Course Outline: Limits in several variables (1.5), Important basic theorems of analysis (1.6), Differentiability in several variables (1.7,8), Implicit & inverse function theorem (2.10), Manifolds & tangent spaces (3.1,2), Taylor polynomials (3.3), Critical points & extrema (3.6), Constrained extrema: Lagrange multipliers (3.7), Integration in several variables (4.1), Fubini’s theorem: iterated integrals (4.5), Volumes & determinants-change of variables in integrals (4.8-10), Integration on manifolds (5.1-3), Differential forms (6.1), Integrating from fields over parametrized domains (6.2), Integrating forms over manifolds (6.3,4), Integral theorems of vector calculus (6.5-10).

Homework: homework assignments and their solutions will be posted weekly on oncourse. They will not be collected and graded. Problems for quizzes and tests will be based on homework problems.

Quizzes: five quizzes are scheduled (see left). Each quiz will last 15 minutes. Quizzes will be graded and their average will contribute to the 16% of your total course grade. Quizzes average is calculated on your 4 best grades. If you take less than 4 quizzes, the score for missing quizzes will be zero.

Exams: three exams are scheduled (see left). Each exam will last 75 minutes. Exams will be graded and each Exam will contribute to the 16% of your total course grade.

Final: one final exam is scheduled for Wednesday May 2nd (see left). The final is comprehensive and will last two hours.

Quizzes and Exams Policies: Quizzes and exams are closed books and no "help" sheets will be allowed. Cell-phones must be silenced or set to vibrating mode. Make-ups for exams or quizzes will be given only in exceptional cases of serious medical problems or family emergencies. If this happens, the problem must be completely documentable and the instructor must be informed of it as quickly as possible. No make-up for the Final will be given.

Academic honesty: students can work together for homework assignments, but each of you should be able to write up your own solutions. Students must work alone on Quizzes, Exams and Final, which are closed book. Cheating and plagiarism will be subject to the University discipline.

IUPUI Policy on Religious Holidays: “IUPUI respects the right of all students to observe their religious holidays and will make reasonable accommodation, upon request, for such observances. Students seeking accommodation for religious observances must make a request in writing by the end of the second week of the semester to the course instructor and should use the Request for Course Accommodation Due to Religious Observance Form.”

Withdrawal deadlines: Please refer to the Registrar website http://registrar.iupui.edu/registration-guide/

Disclaimer: The above schedule and procedures are subject to change in the event of extreme circumstances.