

Calculus III (92.231) Spring 2018 Syllabus (Last updated Dec 24, 2017)

Instructor: Charles Ormsby *Office: Olney Room 428D*

OFFICE HOURS

Course Prerequisite: Passing grade in Calculus II

3:30-5 PM Tues & 10-2 PM Wed

Telephone: 978 934 – 2431 (Office) 978 590 6655 (Cell)

3:30 - 4 PM Thursday

E-mail: ccormsby@verizon.net (preferred ... avoid using UML address)

MyMathLab (MML) Course ID: ormsby90347

Lecture Schedule: This course deviates from other UML Calculus III courses in that only two in-class lectures (TuTh) are given each week supplemented by one or two ~90 minute video lectures that are required listening outside of class. These video lectures will include selected enrichment topics (see “Coverage” below).

Skill Requirements: Competence in Algebra, Trigonometry, Calculus I, and Calculus II. Some familiarity with parametric equations and polar coordinates would be very beneficial as these topics (covered Sec. 11.1 & 11.2) will be only briefly presented/reviewed.

Text: *Calculus for Scientists and Engineers, Multivariable* by Briggs, Cochran and Gillett
BE SURE TO PURCHASE the Pearson Custom Library Edition(92.231) **with MyMathLab**

Course web page: The Course’s MyMathLab site will serve as the course web page.

Coverage: Chapters 11 through 15 (Except Sections 11.3, 11.4 and 14.6). Various enrichment topics will be added such as Lagrange multipliers, the Jacobian, 2D Taylor series, the integral definitions of the divergence & curl operators, exploration of the differential and integral forms of Maxwell’s equations, plus proofs of Clairaut’s, Stokes’ and the Divergence Theorems)

Homework: MyMathLab (MML) will be used for HW. Solutions must be neatly written with each HW assignment separated since selected assignments may be collected.

Quizzes: Approximately one quiz will be given each week. Make-ups are ONLY offered for required military/jury duty, intercollegiate athletics, and extended hospital admissions.

Tests: There will be three EVENING mid-term exams and a 2 ½ hour final exam. Approximately 30% of the final exam will consist of multiple-choice questions that require clear *conceptual understanding* of course concepts. No calculators or notes are allowed on quizzes or exams.

Grading: Your numeric grade will be calculated using the following formula:

$$\text{Numeric Grade} = 15\% \text{ Avg Quiz Grade} + 45\% \text{ Avg Mid-Term Grade} + 25\% \text{ Final Exam} + 15\% \text{ MML}$$

Up to 5 additional points will be added to your numeric grade if your final MML homework grade is over 80% (1 point for each 4% over 80%).

Final letter grade: Your letter grade will then be determined as follows:

Numeric Grade	[0,60)	[60,63)	[63,66)	[66,70)	[70,74)	[74,78)	[78,82)	[82,86)	[86,90)	[90,94)	[94,105]
Letter Grade	F	D	D+	C-	C	C+	B-	B	B+	A-	A

Cheating Policy: All students should become fully familiar with UML’s policies on academic integrity: <http://www.uml.edu/Catalog/Undergraduate/Policies/Academic-Integrity.aspx>
Cheating will not be tolerated and all remedies outlined in UML’s policy will be applied.