

MATH 221  
Section 502

MATH/SCIENCE CALCULUS III  
INFORMATION SHEET

Fall 2012  
P. Yasskin

INSTRUCTOR: Dr. Philip B. Yasskin  
OFFICE: Blocker 620 I  
OFFICE HOURS: TW 2:20-3:30 in BLOC 620 I or by appointment  
OFFICE PHONE: 845-3734  
E-MAIL: yasskin@math.tamu.edu GIVE YOUR PHONE NUMBER!  
Web Page: <http://www.math.tamu.edu/~yasskin/>  
LECTURE: TR 12:45-2:00 BLOC 161  
LAB: W 8:00-8:50 BLOC 161  
TA: Todd Schrader, cardzilla52@neo.tamu.edu  
REQUIRED TEXT: Stewart – Calculus, Early Vectors Edition

GRADING:	COVERS:	POINTS:	DATES:
EXAM 1	Ch. 11, 12	200	Night Exam, To Be Announced
EXAM 2	Ch. 13, part of 14	200	Night Exam, To Be Announced
FINAL	Ch. 11 – 14	300	Wed 12/12 8:00-10:00 in BLOC 161
PAPER HW		50	
QUIZZES		50	
TOTAL		800	

I may *curve* any grade or the total and will then compute the course grade from the following table:

A= 720-800 points	D= 480-559 points
B= 640-719 points	F= 0-479 points
C= 560-639 points	

- \* ADDITIONAL INFORMATION: See the Department 221 Home Page <http://www.math.tamu.edu/courses/math221/> for information on Help Sessions, etc.
- \* CATALOG DESCRIPTION: 221. Several Variable Calculus. (4-0). Credit 4. Vector algebra and solid analytic geometry; calculus of functions of several variables; Lagrange multipliers; multiple integration, theory, methods and application; line and surface integrals, Green's and Stokes' theorems; Jacobians. Designed to be more demanding than MATH 251 and MATH 253. Prerequisite: MATH 172 or approval of instructor. Credit will not be given for more than one of MATH 221, MATH 251 and MATH 253.
- \* COURSE OBJECTIVES: This is the third course in calculus for math and science majors and covers chapters 11 through 14 of the Early Vectors Edition of Stewart. This includes limits, differentiation and integration in several variables, a study of curves and surfaces and the Fundamental Theorems of Vector Calculus. Some topics will be covered in n-dimensions.

## OTHER POLICIES

1. PAPER HOMEWORK will be assigned from Stewart. Late HOMEWORK will NOT be accepted. Rather, the lowest 1 PAPER HOMEWORK grade will be dropped. The remaining grades will be averaged and then rescaled to 50 points.
2. QUIZZES will be given in lecture or lab and will not be announced or will be given as Take-Home QUIZZES. QUIZZES will each count equally. There will be NO make-ups for QUIZZES. Late Take-Home QUIZZES will NOT be accepted. Rather, the lowest one quiz will be dropped. The remaining grades will be averaged and then rescaled to 50 points.
3. MAKE-UPS for MAJOR EXAMS will be given only in case of an absence authorized under University Regulations. You will need a note from your doctor or your academic dean's office. If you know in advance that you will miss an exam, please contact me so that you can take the make-up in advance. If you email me, *be sure to include your phone number*.
4. ATTENDANCE is REQUIRED. Attendance will be taken in lecture and lab. If you sign the roll sheet, you are expected to remain for the entire period. More than 2 absences may have a detrimental effect on your grade especially in borderline cases.
5. You must have your ID with you at all exams. You MAY use a SIMPLE CALCULATOR during exams but NO PROGRAMMABLE, GRAPHIC or ALGEBRAIC CALCULATORS; NO PHONES or TABLETS and NO LAPTOP COMPUTERS.
6. © COPYRIGHT Philip B. Yasskin 2011. All material handed out or written on the board or spoken in class or posted on a computer is copyrighted by the instructor. This includes but is not limited to the text, syllabi, homework, quizzes, labs, additional problem sets, class notes, in-class materials and exams. Because these are copyrighted, neither you nor anyone else has the right to copy them unless I expressly grant permission.
7. ACADEMIC INTEGRITY STATEMENT: "An Aggie does not lie, cheat, or steal or tolerate those who do." Copying work done by another, either in-class or out of class, and passing it off as one's own, even with permission of that person, is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by University policy. Collaboration on assignments, either in-class or out-of-class, is forbidden unless permission to do so is granted by your instructor. Typing notes/formulas into your calculator is also considered cheating. For more information on university policies regarding scholastic dishonesty, see Honor Council Rules and Procedures at <http://aggiehonor.tamu.edu/>
8. ADA POLICY STATEMENT: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit <http://disability.tamu.edu>.
9. COURSE SYLLABUS: Since I do not cover the material in the same order as the textbook, a rough syllabus is at <http://www.math.tamu.edu/~yasskin/currclas/221.12c/syllabus.pdf> and on the next page:

# 251/253/221 COURSE SCHEDULE

Week	Dates 2012	Stewart Sections	Topics
1	8/27-8/31	11.1, 11.2,	Coordinates, Dot Product
2	9/3-9/7	11.3, 11.4, 11.5	Cross Product, Lines, Planes, Quadrics
3	9/10-9/14	11.6, 11.7, 11.8, 14.2	Curve Properties, Line Integrals
4	9/17-9/21	12.1, (12.2*), 12.3, 12.4	2D-3D Fns, (Limits), Partial Derivs, Tangent Planes
5	9/24-9/28	12.5, 12.6	Chain Rule, Directional Derivs
6	10/1-10/5	12.7, 12.8	Max/Min Problems
7	10/8-10/12	13.1, 13.2, Exam 1	Multiple Integrals
8	10/15-10/19	13.3, 13.8	Multiple Integrals
9	10/22-10/26	13.4, 13.5, 13.6	Polar Integrals, Applications
10	10/29-11/2	13.9, 13.10, 13.11	Cylindrical, Spherical and Curvilinear Integrals
11	11/5-11/9	14.1, 14.5	Vector Fields, Grad, Div, Curl
12	11/12-11/16	14.6, 14.7, Exam 2	Surface Integrals
13	11/19-11/23	14.3, 14.4, Thanksgiving	FTCC, Green's Theorems
14	11/26-11/30	14.8, 14.9	Stokes', Gauss' Theorems
15	12/3-12/7	Review, Final Exam	Review

\*12.2 is only covered in 221 and 253 Honors