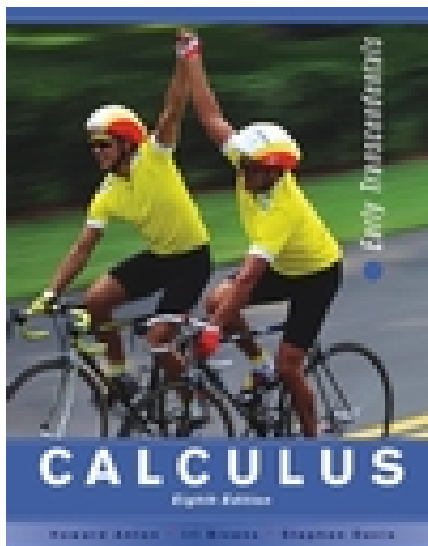


+COURSE: M311 Calculus III
Instructor: Dr. Iztok Hozo,
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Math. Department: 980-6590
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Home Page: <http://www.iun.edu/~mathiho/>

Time and location: Monday-Wednesday: 3:50 - 5:25 p.m. Raintree Hall 209

TextBook: Calculus 8th Edition (Early Transcendental), by Anton, Bivens and Davis

P: MATH M216. Elementary geometry of 2,3, and n-space, functions of several variables, partial differentiation, minimum and maximum problems, multiple integration



Homework is a crucial part of the course. Most of the odd numbered answers are provided in the back of the book. It is not the answer that is important, but how you get there and the understanding and justification of each step. Practice writing **complete** solutions for your homework, as this is what is expected on the quizzes. The homework will NOT be collected and/or graded, but all assigned problems are expected to be completed and pop-up quizzes will be based on the homework assignments. A **ton of homework** will be assigned each week, but additionally, working out **all** odd-numbered questions of each covered section is strongly recommended. In your work you will examine the reasoning behind basic mathematical concepts, explore problems and questions presented from different perspectives, clarify assumptions made in word problems, and look for connections between the course topics and your own area of interest(s). To receive full credit for a solution on an exam/quiz, it is not enough for you to

simply write down the correct answer. You must also show all relevant work in an organized fashion. Include explanatory words or phrases if it is not completely obvious how one step leads to the next, so that any of your classmates would be able to read your solution and understand how you obtained your answer. Avoid disconnected jumbles of symbols and equations. Circle or otherwise clearly indicate your final answer, and include units (meters, seconds, square feet, etc.), if applicable. Many assignments in this course will require that you write an explanation in plain English.

As a general rule, **NO** make-up quizzes will be given. However, an exception will be made in an extreme emergency, but only if a student can produce some evidence of the emergency. If at all possible, call the math office before an exam and leave a message with the staff.

Read each section carefully - **work** as many exercises as you can (even those without the answers in the back). You are encouraged to work with other students. You may find that the actual amount of homework you do is more or less than other students. On average, you should expect to spend at least **TWELVE HOURS per week** (since this is a 3 credit-hour course) outside the class working on this material.

Grading:	Quizzes (unannounced):	60% (the lowest quiz score will be dropped).
	Midterm:	20%
	Final:	20%

This is a **tentative** schedule that may change during the semester. Please attend the classes if you want to know about any changes to this schedule! (I will try to keep updated syllabus on the web: <http://www.iun.edu/~mathiho>)

Week	Date	Homework assignment
1	Aug 25	11.1: Polar Coordinates: 1, 3, 5, 9, 11, 17, 18, 21, 25, 29 – 49 (odd), 69
	Aug 27	11.2: Tangent Lines and Arcs: 5, 7, 9, 13, 21 – 27, 33, 37, 39, 41, 43, 49, 51
2	Sep 1	Labor Day Holiday
	Sep 3	11.3: Area: 1 – 19 (odd)
3	Sep 8	Review
	Sep 10	12.1: Rectangular Coordinates in 3D: 7, 8, 11, 13, 17, 19, 27, 29, 31, 35, 37
4	Sep 15	<i>Campus Flooded – no classes</i>
	Sep 17	<i>Campus Flooded – no classes</i>
5	Sep 22	<i>Campus Flooded – no classes</i>
	Sep 24	<i>Campus Flooded – no classes</i>
6	Sep 29	12.2: Vectors: 1 – 19 (odd), 27, 31, 35, 42, 43, 49 12.3: Dot Product: 1 – 15 (odd), 23, 25, 27, 31
	Oct 1	12.4: Cross Product: 1, 4, 7, 10, 11, 13 – 23 (odd),
7	Oct 6	12.5: Parametric Lines: 3 – 33 (odd), 39, 43, 45 12.6: Planes in 3D: 7 – 17 (odd)
	Oct 8	12.8: Cylindrical and Spherical: 3 – 25 (odd)
8	Oct 13	Review: Take home Midterm Exam
	Oct 15	14.1: Functions of 2 or more vars: 1 – 33 (odd) 14.2: Limits/Continuity: 1 – 43 (odd)
9	Oct 20	14.3: Partial Derivatives: 1 – 5 (odd), 9 – 33 (odd), 43, 47, 57 – 75 (odd), 81, 83, 89, 91, 95
	Oct 22	14.4: Differentials: 1 – 25 (odd), 29 – 39 (odd), 45 – 55 (odd)
10	Oct 27	14.5: Chain rule: 1 – 25 (odd), 31 – 49 (odd), 61
	Oct 29	Review
	Oct 31	Automatic Withdrawal Deadline
11	Nov 3	14.6: Gradients: 1 – 13 (odd), 19 – 43 (odd), 49, 55, 59
	Nov 5	14.7: Tangent planes: 3 - 11 (odd), 17 – 25 (odd), 31
12	Nov 10	14.8: Extrema: 1 – 19 (odd), 27 – 37 (odd), 44
	Nov 12	14.9: Lagrange Multipliers: 1, 5 – 17 (odd), 21, 27
13	Nov 17	Review
	Nov 19	15.1: Double integrals: 1 – 29
14	Nov 24	15.2: More double Int: 1 – 63 (odd)
	Nov 26	Thanksgiving Recess
15	Dec 1	15.3: Double in polar: 1 – 41 (odd)
	Dec 3	Review
16	Dec 8	Final Exam
	Dec 10	