

Week	Topic	Relevant Reading	Assignments
1	October 02-06	<b>Ch. 9: Sequences, Series, and Power Series</b> 9.1 Sequences and Convergence	<b>9.1:</b> 6,8,10,17,18,19,24,26,29,31,35
2	October 09-13	9.2 Infinite Series 9.3 Convergence Tests for Positive Series	<b>9.2:</b> 4,6,8,10,12,14,26,27,28,29,30,31 <b>9.3:</b> 4,6,12,16,18,20,24,26,38,42
3	October 16-20	9.4 Absolute and Conditional Convergence 9.5 Power Series	<b>9.4:</b> 2,4,8,10,16,20,24,27 <b>9.5:</b> 4,8,10,13,14,17,18,22,26,28,30
4	October 23-27	9.6 Taylor and Maclaurin Series 9.7 Applications of Taylor and Maclaurin Series <b>Ch. 10: Vectors and Coordinate Geometry in 3-Space</b> 10.1 Analytic Geometry in Three Dimensions 10.2 Vectors	<b>9.6:</b> 6,8,12,18,22,26,34,35,40 <b>9.7:</b> 6,7,12,16,18,24 <b>10.1:</b> 6,19,22,27,32,36,40 <b>10.2:</b> 4,13,16,18,22,26,31
5	October 30 - November 03	10.3 The Cross Product in 3-Space 10.4 Planes and Lines 10.5 Quadric Surfaces	<b>10.3:</b> 3,5,14,15,17,20,23 <b>10.4:</b> 3,6,9,18,23,26,28,29 <b>10.5:</b> 3,5,8,10,12,15,17,20,21
6	November 06-10 (November 10, Commemoration of Atatürk)	<b>Ch. 12: Partial Differentiation</b> 12.1 Functions of Several Variables 12.2 Limits and Continuity	<b>12.1:</b> 4,5,8,12,13,14,20,24 <b>12.2:</b> 2,6,8,10,12,14,18
7	November 13-17	12.3 Partial Derivatives 12.4 Higher-Order Derivatives 12.5 The Chain Rule 12.6 Linear Approximations <b>MIDTERM-1 November 18th 2023 Saturday at 13:30</b>	<b>12.3:</b> 4,5,6,11,12,16,17,21,24,28,31,36,39 <b>12.4:</b> 4,10,16 <b>12.5:</b> 4,8,16,18,29,30 <b>12.6:</b> 4,6,10,16

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8	November 20-24	12.7 Gradients and Directional Derivatives 12.8 Implicit Functions ( <i>Systems of Equations</i> is <b>not</b> included ) <b>Ch. 13: Applications of Partial Derivatives</b> 13.1 Extreme Values	12.7: 4,8,10,17,18,19,22,26,36 12.8: 2,5,6,11 13.1: 1, 3, 6, 7, 9, 11, 17, 19, 24, 26
9	November 27 - December 01	13.2 Extreme Values of Functions Defined on Restricted Domains 13.3 Lagrange Multipliers <b>Ch. 14: Multiple Integration</b> 14.1 Double Integrals	13.2: 3, 5, 7, 8, 9, 11, 17 13.3: 1, 3, 5, 7, 9, 11, 19, 21, 22 14.1: 5,13,15,18,19
10	December 04-08	14.2 Iteration of Double Integrals in Cartesian Coordinates 14.4 Double Integrals in Polar Coordinates 14.5 Triple Integrals	14.2: 1-27 odd 14.4: 1-25 odd 14.5: 2,4,6,7,9,10,14,15
11	December 11-15	14.6 Change of Variables in Triple Integrals <b>Ch. 11: Vector Functions and Curves</b> 11.1 Vector Functions of One Variable 11.3 Curves and Parametrizations <b>Ch. 15: Vector Fields</b> 15.1 Vector and Scalar Fields	14.6: 2,3,4,6,10,12,16 11.1: 8,10,16,18 11.3: 1,2,3,4,6,8,17,18,24 15.1: 2,3,6
12	December 18-22	16.1 Gradient, Divergence, and Curl 15.2 Conservative Fields 15.3 Line Integrals <b>MIDTERM-2 December 23th 2023 Saturday at 13:30</b>	16.1: 3,4 15.2: 2,6,9 15.3: 2,6,8,13,14

Week	Topic	Relevant Reading	Assignments
13	December 25-29	15.3 Line Integrals 15.4 Line Integrals of Vector Fields <b>Ch. 16: Vector Calculus</b> 16.3 Greens Theorem in the Plane	15.3: 2,6,8,13,14 15.4: 4,6,8,9,13,22 16.3: 1, 2, 3, 4, 5, 6, 7, 9
14	January 02-05 (January 1, holiday)	16.3 Greens Theorem in the Plane <b>FINAL EXAM January 12th 2024 Thursday at 16:30</b>	16.3: 1, 2, 3, 4, 5, 6, 7, 9

## Math 120 Course Policy (2023-1)

**Course Instructor:** Muhiddin Uğuz

**Course Asistant:** Muhammed Erkam Özdemir ([erkamoz@metu.edu.tr](mailto:erkamoz@metu.edu.tr))

### Exams:

MidTerm1: 30 % (November 18th 2023 at 13:30)

MidTerm2: 30 % (December 23th 2023 at 13:30)

Final Exam: 40 % (January 12th 2024 at 16:30)

### Reference Book:

Calculus, James Stewart, Fifth Edition

### Class Attendance:

You are expected to attend all lectures and recitations. However no attendance will be taken. Also there will be no quizzes. (You do not need to change your section)

**Make up for Exams and Assignments:**

You can have at most one make-up exam. In order to be able to take the make-up exam, you must present a reasonable excuse (such as a medical report or an academic leave). After the final exam, there will be a form on ODTÜClass and via that form, you will apply the makeup exam instead of one missed exam.

**Eligibility to take the Final Exam and NA Grade:**

If your two midterm scores (each one out of 100 points) add up to less than 20 points (out of 200 points in total), then you cannot take the Final Exam and will receive an NA grade from the course. If you did not attend the Final Exam and if you do not have the right to take make-up exam for Final, you will receive an NA grade.

**Information for Students with Disabilities:**

Students who experience difficulties due to their disabilities and wish to obtain academic adjustments and/or auxiliary aids must contact ODTU Disability Support Office and/or course instructor and the advisor of students with disabilities at academic departments (for the list: <http://engelsiz.metu.edu.tr/en/advisor-students-disabilities> ) as soon as possible. For detailed information, please visit the website of Disability Support Office: <https://engelsiz.metu.edu.tr/en/>

**Academic Honesty:**

The METU Honour Code is as follows: "Every member of METU community adopts the following honour code as one of the core principles of academic life and strives to develop an academic environment where continuous adherence to this code is promoted. The members of the METU community are reliable, responsible and honourable people who embrace only the success and recognition they deserve, and act with integrity in their use, evaluation and presentation of facts, data and documents."