MATH 291 Winter 2019-20
Complex and Vector Analysis for Engineers

Instructor: Dr. Georgi Medvedev
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Lectures: TR 11-12:20, Stratton Hall 113
Recitations (MATH291-001): F 11-11.50, Curtis Hall
Office hours: R8-9.50 or by appointment


Course objectives: This course gives a comprehensive overview of basic techniques of vector and complex analysis. Students are expected to acquire problem solving skills appropriate to the material. Topics include review of vector calculus; gradient, divergence, and curl; Green’s and Divergence Theorems, analytic functions, and complex integration. The course covers Chapters 7 (review), 9, 17, 18, 19.

Course format: There will be two lectures and a recitation every week. There will be regular quizzes, a midterm exam and a final exam. Make sure you are available for the entire Final Exam Week. The time of the final exam will announced through the Master Term Schedule.

Homework: Homework problems will be assigned weekly. All homework problems must be attempted. If you are unable to complete a homework problem or are unsure about your solution, please ask me or your recitation instructor for help. Additional help is available at the Math Resource Center located in Korman 207: drexel.edu/coas/academics/departments-centers/mathematics/math-resource-center/.

The homework assignments will not be graded, but similar problems will appear on quizzes and exams.

Quizzes: There will be weekly quizzes. The date and the material for each quiz will be announced in advance.

Examinations: There will be one midterm (tentatively Week 5) and one final examination (Final Exam Week). The exact dates will be announced in advance. All exams are closed book. No calculators or other electronic devices will be permitted on tests so you should not come to depend on them while doing your homework. An unexcused absence from the exam will result in 0 score.

CLASS POLICIES:

Make-up exam policy - There are no make-up quizzes. The lowest quiz score will be dropped. Make-up exams are offered only under extraordinary circumstances (documented in writing), and only if approved by the instructor before the scheduled test. In case of illness that will require absence from exam, a student must submit a doctor’s note to be considered for a make-up exam.
Electronic devices - Phones must be turned off during lectures and exams. Other electronic equipment can be used exclusively for learning purposes (e.g., taking notes, consulting textbook, etc).

Attendance - Regular and punctual attendance at all scheduled classes is expected. Attendance will be taken regularly. More than two unexcused absences may affect your grade.

Assessment: Final grade will be calculated as follows: attendance and class participation (5%), quizzes (20%), midterm (35%), final exam (40%).

The final exam score will override a lower midterm score, i.e., if the midterm score is less than that on the final exam, it will be replaced by the latter.

The following table is to help you to decide on your standing during this course:

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A : 90 - 100 \quad B : 80 - 89 \\
C : 70 - 79 \quad D : 60 - 69
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(± will be assigned at the discretion of the instructor). Students earning points within the above bounds are assured of a final grade at least as indicated above. Some changes to the above breakdown at the end of the term are possible.

Academic integrity: Cheating or plagiarism will not be tolerated. Please consult the Academic Integrity, Plagiarism, Dishonesty and Cheating Policy http://www.drexel.edu/provost/policies/academic_dishonesty.asp

Disabilities and Accommodations: Students requesting special accommodations in this course need to meet with the instructor during the first week of the course to discuss any special arrangements. Current accommodation verification letter from the Office of Disability Services is required. For available resources, please consult http://drexel.edu/oed/disabilityResources/students/

Other Academic Policies

Course Add/Drop Policy http://www.drexel.edu/provost/policies/course-add-drop
Course Withdrawal Policy http://drexel.edu/provost/policies/course-withdrawal

Problem resolution: Please come to see me during my office hours or by appointment if you have any course related problems. \(^1\)

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\(^1\)This syllabus is subject to change. Changes, if any, will be announced in class.