

Syllabus for MAC 2311, Calculus 1, Section U15, Fall Semester 2017

Instructor: Mirroslav Yotov, DM 413A, yotovm@fiu.edu

Book: Anton-Bivens-Davis, *Calculus Early Transcendentals*, 11th Edition

(ISBN: 979-1118883832, ISBN: 1118883829)

Web Site of the course: <http://faculty.fiu.edu/~yotovm/Calculus1-F09/indexF17.html>

Contents of the course

The course is designed to systematically, with reasonable rigour, introduce and study the concepts of continuity, differentiability, and Riemann integrability for real-valued functions of one real variable. These concepts are standard for a first course on Calculus, and are covered in Chapters 1-6 of the book. In addition, some topics in section 1 and 2 of Chapter 10 will be discussed as well. One feature of the course is that, in regard of the applications of the developed concepts and methods, an emphasis will be put on their use in Natural Sciences, in particular, in Biological sciences. To accomplish this, appropriate examples and exercises will be developed in addition to the numerous ones of more general nature in the book.

Organization of the course

There will be three meetings of the class a week: Monday, Wednesday, and Friday. The periods on Friday are shorter, 50 minutes each. They will be devoted to doing examples, answering questions from the students, and Quizzes. The longer periods on Monday and Wednesday will be used to discuss the theory pertaining to the material covered.

Monitoring the progress of the students

The students will have to do Quizzes, four term exams, and a final exam. The tentative time-table for the term exams is as follows: September 18th, October 9th, October 30th, and November 20th. The Final Exam is scheduled for December 4th. Students should prepare for the Quizzes and the Exams by regularly doing the exercises suggested for work at home. These can be found on the web site of the course.

Grading

The overall grade of the students will be based on 10% of the **mean** of the Quizzes, 15% of each Term Exam, and 20% of the Final Exam. In addition the lowest Quiz grade will be dropped.

Important Remarks

- 1) No make-up exams will be scheduled!
- 2) Only Scientific Calculators will be allowed on the Quizzes, Tests, and the Final Exam.
- 3) The Cell Phones have to be silenced/switched off during the events in item 2).
- 4) The Instructor has the right to make academically relevant changes in the above Syllabus.

