

## Math 205 Introductory Calculus I, Spring 2014

### Basic Info:

Meeting Times/Locations

- Section 0002, MWF Roop Hall 0129, 10:10–11:00am

Instructor: Dr. Joshua Ducey

Email: [duceyje@jmu.edu](mailto:duceyje@jmu.edu)

Website: <http://educ.jmu.edu/~duceyje>

Office Location: Roop 339

Office Hours:

- Monday 12:20–1:10pm
- Wednesday 2:30–3:20pm
- Thursday 10:30–11:30
- By appointment

Book: Introductory Calculus I by Tan, Cengage 2011, 8th Ed.

### Course Goals and Content:

The student should develop an understanding of both the theory and applications of the Calculus topics covered. We will cover topics from Chapters 2 through 6 of the text.

Nature of the Course Content:

MATH 205. Introductory Calculus I.

3 credits. *Offered fall and spring.*

Topics from differential calculus with applications to the social, behavioral or life sciences or management. *Prerequisite: MATH 155, MATH 156 or sufficient score on the Mathematics Placement Exam. Not open to mathematics or physics majors or to students who have already earned credit in MATH 235. Not recommended for chemistry majors.*

Goals of the Course:

- (1) To develop an understanding of the logical structure and style of mathematics by:
  - Using reason in an orderly, cogent fashion.
  - Writing clear, well organized solutions to problems.

Structure refers to the foundations of mathematics and to the

techniques used to build on those foundations. Style refers to the clarity, elegance, efficiency, and precision desirable in mathematical expression.

- (2) To develop ability to use mathematical tools to solve problems and to transfer this knowledge to analogous situations by:
- Using differentiation to solve problems involving optimization and rates of change.
  - Using polynomial, algebraic, exponential, and logarithmic functions in mathematical computations and in modeling applications.
  - Using and understanding antiderivatives, the Fundamental Theorem of Calculus, and area under a curve.

**Homework:**

Will be assigned *daily*. We will be using the online homework resource WeBWorK. Go to [webwork.cit.jmu.edu](http://webwork.cit.jmu.edu), scroll down to MATH205, and click the link next to **Joshua Ducey** to access your assignments.

**Quizzes:**

There will be random quizzes given in class. No make-up quizzes will be given.

**Success:**

*Come to class.*

*Read your book.*

*Do your homework.*

**Getting Help:**

You are encouraged to work on homework with your classmates. My office hours are fixed times when I will be in my office to help you, but you can also make an appointment to see me at a different time (just email me).

The Science and Math Learning Center offers free tutoring. No appointment necessary, just walk right in. It is located in Room 200, and operates Monday through Thursday 10am–8pm, Friday 10am–2pm, Sunday 5pm–8pm. I strongly encourage you to take advantage of

this service. There is also an East Campus Library location, see their website for details [www.jmu.edu/smrc](http://www.jmu.edu/smrc) .

This semester our class will also have a P.A.S.S. leader. She will be available to give you extra help in the course and will hold office hours. Details will be announced in class.

**Evaluation:**

WeBWorK: 15%

Quizzes: 5%

Three Exams: 60%

Cumulative Final Exam: 20%

**Grade Scale:**

[90 – 100] A- to A

[80 – 90) B- to B+

[70 – 80) C- to C+

[60 – 70) D- to D+

[0 – 60) F

**Final Exam Time:**

Wednesday 5/5/2014, 8:00am–10:00am

**General University Policy:** [www.jmu.edu/syllabus](http://www.jmu.edu/syllabus)