

# Marshall University

## MTH 140 – 105: Applied Calculus (Fall 2014) - CRN 3241

**Class Time:** MW 6:30 – 7:45 pm

**Location:** Smith Hall 518

(Tentative Syllabus)

**INSTRUCTOR:** Dr. Raid Al-Aqtash

**OFFICE:** Smith Hall 325

**OFFICE PHONE:** 304-696-3044

**E-mail:** alaqtash@marshall.edu

**OFFICE HOURS:** MWF 12:00 noon – 1:50 pm, others by appointment.

**UNIVERSITY POLICIES:** By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to

<http://www.marshall.edu/academic-affairs/policies/>

Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

### CLASS RULES:

1. **SILENT YOUR PHONES.**
2. If you need to leave the class early, inform your instructor before the class begins. Please **show your respect** to your classmates and your instructor.
3. **Good attendance is a major key to success in this (or any) class!** Students are expected to attend all scheduled classes.

**COURSE DESCRIPTION:** A brief survey of calculus including both differentiation and integration with applications. Not to be substituted for MTH 229 or MTH 230. Prerequisites: ACT Math 24, SAT Math 560, MTH 127, MTH 130, or MTH 132.

**COURSE OBJECTIVES AND STUDENT LEARNING OUTCOMES:** The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course:

Course Student Learning Outcomes	How students will practice each outcome in this Course	How student achievement of each outcome will be assessed in this Course
student will be able to identify and use the basic concepts of functions appropriately.	Homework	Homework, Quizzes, and Exams
student will be able to describe the main ideas of Calculus: derivative, integral.	Homework	Homework, Quizzes, and Exams
student will be able to compute derivatives and integrals given a table, graph, or equation.	Homework	Homework, Quizzes, and Exams
student will be able to read the assigned material responsibly.	Homework	Homework, Quizzes, and Exams

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student will be able to mathematically model real world situations and interpret the results.	Homework	Homework, Quizzes, and Exams
student will be able to use technology to model real world problems.	Homework	Homework, Quizzes, and Exams
student will be able to use derivatives to obtain optimal solution to maximum/minimum problems.	Homework	Homework, Quizzes, and Exams

**TEXT:** *Applied Calculus for the Life and Social Sciences*, by Larson.

**MATERIAL:** We will cover most of the chapters of the text, with additional topics as time allows.

**CALCULATOR:** Graphing calculator (i.e. TI-83, TI-84, etc.)

**GRADED WORK:** (400 points)

**1. Exams:**

There will be two in-class midterm exams and a final exam, each worth 100 points. The final exam will be comprehensive. In case of extreme emergency, serious illness, or university related activity, when I have been notified with evidence or approval, or excused absences approved by the Dean of Student Affairs, the student will be allowed to make up the missed exam.

**Exam #1:** *Monday, September 29<sup>th</sup>, 2014* (100 points)

**Exam #2:** *Wednesday, October 29<sup>th</sup>, 2014* (100 points)

**Final Exam:** *Monday, December 8<sup>th</sup>, 2014, 7:00 – 9:00 p.m.* (100 points)

**2. Quizzes, Classroom Activities, and Homework Assignment:** (100 points)

There will be at least 13 quizzes, activities, or homework assignments TBD. **The highest 10 quizzes/homework assignments will count.** Quizzes or homework assignments may contain problems that have been assigned as practice problems or are exactly like practice problems.

**Roughly speaking 90% is at least an A–, 80% is at least a B–, 70% is at least a C–, 60% is at least a D–. Final grades will be determined by the end of the semester.**

**MATH TUTORING SERVICES:** Marshall University provides multiple options for free on-campus tutoring. It is the student's responsibility to take advantage of these facilities in addition to utilizing office hours.

- The Mathematics Department tutoring lab is located in Smith Hall 115. The current schedule can be found at [www.marshall.edu/math/tutoringlab.asp](http://www.marshall.edu/math/tutoringlab.asp). Schedules for the new semester are usually posted during the second week of classes.
- The University College has a tutoring lab on the first floor of Laidley Hall. Information regarding this facility can be found at [www.marshall.edu/wpmu/uc/tutoring-services](http://www.marshall.edu/wpmu/uc/tutoring-services).

**ATTENDANCE POLICY:** Attendance is a *major key for success*. Students are expected to attend all scheduled classes. It is the student's responsibility to find out what was discussed in a missed class. Attendance will be recorded; however attendance records will not be used to compute grades.

**DROP:** The last day to drop class (no entry to academic record) is August 29<sup>th</sup> 2014.

**Withdrawals:** October 31<sup>st</sup>, 2014 is the last day to withdraw "W" from the class.

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## **Academic Integrity:**

The University Rules, including the Code of Conduct, and other documented policies of the department, college, and university related to academic integrity, will be enforced. **Any violation of these regulations, including acts of plagiarism or cheating, will be dealt with on an individual basis according to the severity of the misconduct.**

## **Special Needs Policy:**

Students with special needs should meet with the instructor as soon as possible to arrange for reasonable provisions to ensure an equitable opportunity to meet all of the requirements of this course. At the discretion of the instructor, some accommodations may require prior approval by Disability Services.

## **Blackboard / Electronic Communications:**

Blackboard will be used to post pertinent class information and course documents. For technical problems with Blackboard contact IT Services Desk 304-696-3200.