MAT 154.50 - Calculus II (SP17) COURSE SYLLABUS

PROFESSOR:	Alana Tuckey
EMAIL:	tuckeyalanaj@jccmi.edu
TELEPHONE:	734.386.0523 (*Google Voice*)
CLASS SESSIONS:	Monday through Friday, 9:00 - 11:25 AM, in 248 James McDivitt Hall (5 July to 15 August, 2017)
OFFICE:	146 James McDivitt Hall
OFFICE HOURS:	See http://bit.ly/ScheduleAJT
ONLINE:	MyMathLab Course Code = **See Handout**

COURSE DESCRIPTION:

This course explores the following topics: methods and applications of the derivative and integral for inverse trigonometric and hyperbolic functions, indeterminate forms, series and polar/parametric representations of functions. Graphing calculator required. The mathematics department recommends the prerequisite not be more than two years old. If the prerequisite is more than two years old, the recommendation is the course placement exam be taken or the prerequisite be retaken to ensure the success of the student.

PREREQUISITE:

A 2.0 in JC's Math 151.

MATH 154 GENERAL EDUCATION OUTCOMES:

GEO 3 – Demonstrate Computational Skills and Mathematical Reasoning

COURSE REQUIREMENTS

REQUIRED MATERIALS:

- **Textbook:** *Calculus: Early Transcendental Functions*, 2nd Edition (Briggs, Cochran, Gillet)
    - o **ISBN**: 0-321-94734-7 (Student Copy)
    - o **MyMathLab Student Access also required (*regular internet access required*)**
    - o *TBZ*: The textbook is available *electronically* through the MML Course we will use.
- **Calculator:** TI-84
- **Other:** *Large* 3-ring binder, loose-leaf paper, multi-colored highlighters, large eraser, ***pencils***

GRADING POLICY AND SCALE:

A 2.0 or "C" is a passing grade. Only courses with passing grades count toward graduation. Other colleges transfer in only courses with passing grades. Many financial aid sources, including most employers, require passing grades. Additionally, earning less than a 2.0 in a class results in being unable to participate in the next level of courses in a discipline that requires Math 154 as a pre-requisite. Registering for the next course sequence without passing the pre-requisite course may result in you being dropped from that class.

Grading Scale:		Grade Calculation:
90 -100%	4.0	Classwork: *20%*
85 - 89%	3.5	MyMathLab Homework: *15%*
80 - 84%	3.0	Mid-Term Examinations: *45%*
75 - 79%	2.5	Cumulative Final Examination: *20%*
70 - 74%	2.0	
65 - 69%	1.5	
60 - 64%	1.0	
55 - 59%	0.5	
0 - 54%	0.0	

CLASS WORK (WORKSHEETS, PARTICIPATION, QUIZZES, ETC.):

There will be frequent in-class assignments (turned in for credit). These may be individual or group assignments, closed or open notes at the instructor's discretion. There may also be additional quizzes posted on MyStatLab for students to take outside of class.

> **NOTE:** Assignments may NOT be turned in late *for any reason*. If a student is absent, they are **still responsible** for completing and submitting any **coursework** they missed on time. Students must go to MyMathLab, download and print off the appropriate worksheets missed, complete them, and submit them **by the start** of the class at which they are due with **no exceptions** (this may require submitting things electronically as a PDF file with a scan or via classmates). One particularly useful tool for this is a free, "scan-to-PDF" app for mobile devices (e.g., "CamScanner" or "GeniusScan").

MYMATHLAB HOMEWORK:

These assignments must be done outside of class time on a computer with internet access, at http://www.mymathlab.com. There is a homework assignment for approximately each section in the course. Homework will be due frequently, as announced in class. You can also check MyMathLab for particular due dates. You have an unlimited number of tries to do the homework before you submit it (up until the due date). Thus, all of your homework should receive full credit, if you keep trying until you get a perfect score.

EXAMS:

Examinations are performances of student understanding; as such, they allow students to demonstrate mastery of the skills and concepts from the homework and lectures. Special requirements (e.g., technology use) will depend upon the particular topics and will be discussed in class. The final exam is cumulative for the entire course and takes place during the *last day* of the course and CANNOT be taken early. **NOTE:** Due to the large amounts of material in our course, it will be necessary for exams to be taken in the Testing Lab in 121 Bert Walker Hall. Be sure to look over the Testing Lab's policies, hours, and procedures here: https://www.jccmi.edu/testing-lab/

COURSE POLICIES

ACADEMIC HONESTY POLICY:

COPYING is CHEATING! This includes copying from each other, from tutors, and from online Math systems such as WolframAlpha or SymboLab.You are *encouraged* to talk to each other and research topics, but **all your submitted work must be your own.** In other words, "group-work" and doing online research are great ways to learn material, but anything you submit for a grade must be done **by you** - reflecting your own thought processes, not those of anyone else. If I suspect you of academic dishonesty, I will follow JC's Academic Honesty Policy and take appropriate action up to and including assigning a **failing grade** for the paper, project, report, exam, or the course itself (as deemed appropriate).

ABSENCE POLICY:

Students are expected to attend all class meetings, arriving on time, and staying until the end. **In-class assignments may not be made up**, **therefore attendance is vital**. The student is responsible for obtaining any missed materials from other students; that is to say, *office hours are not a replacement for class time*. Moreover, **assignments and exams may *not* be made up**.

INCOMPLETE GRADE POLICY:

The incomplete grade is designed for successful students with extenuating circumstances to allow them to complete the course requirements after the semester or session has ended. Students may receive an "I" if, in the opinion of the instructor, their work is sufficient in quality, but is lacking in quantity, to meet the objectives specified in the course syllabus. The course objectives are to be satisfactorily completed during the next year or within the time agreed to by the instructor and the student. If the student does not complete the course within the designated time period the "I" grade will be replaced by the grade earned as assigned by the instructor. The grade of "I" is not awarded to students who did not attend, or seldom attended, or to those who simply are not pleased with their final grades… (*JC Policy*)

> **Note:** Requesting an "Incomplete" grade is not a valid strategy for avoiding failure

EXTRA CREDIT:

There will be no opportunities for extra credit. Your grade calculation is based solely on your performance on course assignments listed above.

EXPECTATIONS FOR "GOOD EXPLANATIONS" (I.E., HOW YOU WILL BE GRADED):

➔ *Accurate*: Factually correct with only minor, inconsequential flaws
➔ *Precise*: Addresses the specific question (and answers it), and is focused with little distraction (e.g., extraneous work or doodles)
➔ *Persuasive*: Clear and logical:
  ◆ Could be used to teach or explain to another (especially a skeptic)
  ◆ Does *not* require any "I think what they mean is..." from reasonable readers
  ◆ Appropriately employs and interconnects multiple modes of representation (words, graphs, diagrams, tables, equations, etc.) as needed
  ◆ Uses succinct, appropriate language that is clear and complete

ADDITIONAL INFORMATION

CLASSROOM EXPECTATIONS:

The following are expectations that we can all share.

We are each responsible for our work, our learning, and our behavior in class.

This course will require consistent attendance and effort on your part. Mathematics is a subject that requires regular effort to understand and master.

We are each respectful of everyone in the class (including ourselves).

Please silence mobile devices, refrain from using any tobacco products, and come prepared (and on time) to ask/answer questions and work together.

We are patient and persistent, even in the face of frustration (with others or ourselves).

It is completely understandable *and expected* for students to be 'stumped' by problems at first. What separates successful students from unsuccessful students is almost entirely their willingness to be *patient* and *persistent* with the mathematics.

We will communicate with each other promptly regarding problems or concerns.

Regular, direct communication solves more problems than it causes. Please do not hesitate to contact me for any reason, and I will do the same.

WHERE TO GET HELP:

At this level of mathematical sophistication, your fellow students and I are your best, most immediate resources for learning. Even so, there are *many* other sources to consider and investigate. Be creative, be resourceful, and share what you find -- we're all in this together!

I strongly suggest you start up a regular study group as soon as you are able with some of your classmates. At the very least, write down names and contact information for your peers and call on each other when needed. For more information on starting and maintaining a study group, check out the following link: **http://bit.ly/math-study-group**

Other sources of help:
- *Office Hours:* Meet with Alana after class or by appointment.
- *Jackson College's Center for Student Success (CSS):* Free tutoring in *Federer Room C* of the Potter Center is available most weekdays (http://www.jccmi.edu/Success/Tutor/). Remember, finding tutoring for upper-level mathematics often takes time and patience.
- *Online Help & Computation Sites:* There are several online sources for help, some of which are high-quality and easy to use, including: www.Calculus-Help.com, www.wolframalpha.com, www.mathway.com, & www.symbolab.com. I recommend these for *checking* your homework.

TENTATIVE LIST OF SECTIONS: A brief (and *tentative*) list of the sections covered in the course.
- **Unit 1:** Review of 4.9 and 5.5, 6.8, 5.4, 6.10, 6.9, 7.9
- **Unit 2:** 6.1-6.7
- **Unit 3:** 7.1-7.6, 4.7, 7.8
- **Unit 4:** 10.1-10.4
- **Unit 5:** 8.1-8.3, 9.1-9.3