

MAT 141.02 – Precalculus  
Instructor: Sierra Beall  
January 17<sup>th</sup> – May 4<sup>th</sup>, 2017

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### General Information

Class Time & Location	Tuesdays & Thursdays, 6:00 pm – 8:18 pm James McDivitt Hall, Room 251
Instructor's Email Address	beallsierram@jccmi.edu *Instructor typically replies within 24 hours; please allow 24 hours for response
Instructor's Office	James McDivitt Hall, Room 150 *This is a shared space
Office Hours	Informally before & after class, or by scheduled appointment
MyMathLab	beall75654

### Course Materials

- K. Laird's MAT 141 Course Pack (available at the JC Bookstore in the Potter Center)
- Software: MyMathLab (available at the JC Bookstore in the Potter Center, or available for purchase online with a credit card/PayPal)
- Textbook (electronic copy included with software listed above): Bittinger, Beecher, Ellenboogen, & Penna, *Precalculus: Graphs and Models*, 5<sup>th</sup> edition
- Graphing calculator (TI-84 plus strongly recommended, CAS graphing calculators will not be allowed)
- Reliable internet access

### Course Description & Prerequisite

Major emphasis is on the concept of functions. The students will study polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions; their properties, graphs, and related equations; and applications. Additional topics include systems of equations, matrices, and conic sections.

An earned grade of 2.0 or higher in MAT 139 (or its equivalent) or indicative performance on the JC math course placement exam. Please note that it is strongly recommended that the prerequisite be met within the last two years.

### Course Requirements

Attendance: You are expected to attend class every day and participate in all class activities. In the event of an emergency, please notify your instructor as a courtesy since she will be concerned for your safety if you do not show up for class. It will be your responsibility to

get any notes that you miss and to continue with the homework assignments on your own. Extreme tardiness, lengthy breaks, and leaving class early may count as absences and will be handled on a case-by-case basis. Attendance will be factored into your Classwork grade (see below).

Homework: The only way to learn math is to do math – this is not a spectator sport! The graded portion of your homework in this class will be done online in a program called MyMathLab. There will be an online homework assignment corresponding to each section of the text that we will cover. You may attempt your MyMathLab homework an **unlimited number of times** before you submit it, as long as you complete it by its due date. That means that it is possible for you to receive full credit on each assignment as long as you are willing to put in the time and effort.

Please note that the amount of homework available in MyMathLab may not always be enough for you to master every topic. If this is the case, please use the Study Plan in MyMathLab for extra practice; although the Study Plan does not directly count toward your grade in the course.

*When doing your homework, if there is a problem that gives you trouble, try these ideas...*

- Use one of the help features within MyMathLab. A few of those features are:
  - **View an Example:** This feature walks you through a worked out example similar to the problem you are working on.
  - **Help Me Solve This:** This feature gives you step-by-step hints.
  - **Ask My Instructor:** This feature emails me the exact problem you are working on, with any specific notes you want to make. I can email you back any help that I can provide or I can bring these problems in to do at the next class session.
  - **Video or Animation:** For some problems/topics there are videos or animations to view.
- Print out the problem and either bring it to class with you to ask, or bring it with you to my office during a scheduled appointment.

This course requires MyMathLab and all students will be given a 14-day free access code, which must be used by the second class meeting. Students must purchase the permanent MyMathLab code or else all assignments missed due to any lapse in MyMathLab access will receive a grade of zero. All course grades will be kept in MyMathLab under the “Gradebook” tab and homework **cannot be made up after its due date**. Homework is typically due at 11:59 pm on the first class day of each week.

Classwork: These assignments will be completed in class, both in groups and individually. Classwork cannot be made up for any reason and points may be deducted for attendance issues, including tardiness, lengthy breaks, and leaving early. Classwork that is collected will be graded based upon both completeness and correctness. Classwork may also include quizzes.

Exams: There will be 1 take-home online exam and 3 closed-book/closed-note paper exams. Non-CAS calculators are allowed on all exams, as well as formula sheets provided by the instructor. Paper exams will be administered outside of normal class time in the Testing Center on Central Campus located in BW 121. Specific dates and hours (i.e. the “testing window”) for each exam in the Testing Center will be announced as they approach. Exams must be completed during the testing window outlined by the instructor. If a testing window absolutely does not work for your schedule, you must notify the instructor **prior to the start of the testing window** to make alternative arrangements. If you fail to make arrangements in advance, you will be given a zero for the exam. However, the testing window will span over multiple days, so issues requiring alternative arrangements are not anticipated. Please be advised that you should never plan on taking an exam on the last day of the testing window. The last day is your last chance, so it should only be used if an unforeseeable event prevents you from testing earlier in the window. Additionally, if you use materials not allowed during an exam, you may be given a zero for the exam.

Final Exam: The Final Exam will be administered during our regular class time in our normal classroom on our last meeting day. Notes will not be allowed, but you may use a non-CAS calculator and formula sheets provided by the instructor. If you will be absent on the last day of class, you must notify the instructor prior to the start of the class to inquire about alternative arrangements. You should plan to arrive on campus at least 15 minutes prior to testing. This will ensure that if something happens on your way out the door (such as a dead car battery), you will have enough time to email me directly or call the campus phone number to leave a message, informing me of your situation.

Extra Credit: There will be no opportunities for extra credit. Your grade is based on your performance in class, not on extras.

## **Student Outcomes and Grading**

### Math 141 Core Course Objectives

Students completing Math 141 – Precalculus should be able to:

- Simplify polynomial, radical, and rational expressions; and algebraic expressions involving radicals, integer exponents, rational exponents, trigonometric functions, and matrices using appropriate algebraic skills and logarithmic processes.
- Use appropriate algebraic processes to solve:
  - linear, absolute value, quadratic, radical, rational, exponential, and logarithmic equations.
  - linear, absolute value, polynomial, and rational inequalities.
  - linear and non-linear systems of equations.
  - trigonometric and inverse trigonometric equations.
- Manipulate and identify functions graphically, symbolically, and numerically.
- Solve application problems involving many different subject areas using algebraic processes and counting technologies.

- Apply fundamentals of right triangle trigonometry and solve application problems.
- Use appropriate technology (i.e. graphing calculator) to enhance the understanding of the previously stated objectives.
- Have an awareness of the historical background of topics covered in the course.

Math 141 General Education Outcomes

The Board of Trustees has determined that all Jackson College graduates should develop or enhance certain essential skills while enrolled in the college. The General Education Outcome addressed in this class is:

- GEO 3: Demonstrate computational skills and mathematical reasoning

Determination of Final Grade: Your final grade will be calculated as a weighted average as shown in the table below.

Homework	Classwork	Exams	Final Exam
10%	10%	60%	20%

Grades will be assigned using a percentage or a 4-point scale:

- 4.0 = superior work (above and beyond what was expected)
- 3.0 = work completed correctly or well
- 2.0 = mediocre work
- 1.0 = unsatisfactory work

The percentages for grades can be seen in the chart at the right.

90-100%	4.0
85-89%	3.5
80-84%	3.0
75-79%	2.5
70-74%	2.0
65-69%	1.5
60-64%	1.0
50-59%	0.5
0-49%	0.0

**Reminder:** A grade of 2.0 or better will be accepted as a successful completion of this course. Since this course is a prerequisite to other academic courses, a 2.0 is the minimum grade to exit. For courses that will transfer, other colleges generally accept a grade of 2.0 or higher for transfer. Most financial aid, scholarships, and loans require a grade of 2.0 or better.

Intermediate Grading: To comply with college policy and federal regulations you will receive three intermediate grades during the semester. The grades assigned are letters with the following meanings outlined below.

- **V:** Verifies that you are participating and your work so far has been acceptable.
- **H:** Means that you are participating, but your work shows that you may require help in order to complete the class successfully. If you receive an H grade, you will be contacted by the Center for Student Success (located in 125 Bert Walker Hall) and offered tutoring services.
- **Q:** Means that you have quit participating in the course. If you receive a Q grade, you will automatically be withdrawn from the course. A Q grade is normally assigned if you have not submitted work (classwork, exams, participation, etc.) for two weeks and have not contacted your instructor regarding your absences.

### **Classroom Policies and Additional Information**

Cell Phones/Laptops/Headphones/Electronics: Students are responsible to make sure that all cell phone and electronic devices are silenced prior to entering the class. Any student using their cell phone or electronic device (i.e. texting, searching the web, etc.) during class time will be asked to leave and forfeit any credit for any assignment that would have been attained during the class meeting. This includes laptops and headphones, as well. Students should not be on their laptops during lecture, not even to work on MyMathLab. As a courtesy to the instructor and fellow classmates, headphones should not be used during class.

General Behavior: "We know what a person thinks not when he tells us what he thinks, but by his actions." – Isaac B. Singer

**1. Be Responsible:** for your work, for your learning, for your behavior in class, etc.

The online homework in particular is going to require a great level of responsibility on your part. You will need to stay on top of your schedule and your life to make sure that all coursework is done in a timely fashion.

**2. Be Respectful:** of other students, of the instructor, of the material, of yourself, etc.

Turn off your cell phones and electronics, arrive on time, stay the entire time, be prepared to answer questions, and work well together.

**3. Contact me immediately if there is a problem:** with the course, material, instructor, students, etc.

Important Dates: Be sure to check out the JCC Academic Calendar for important dates, such as holidays with no classes, last day to withdraw, etc. at [http://www.jccmi.edu/academics/academic\\_calendar.htm](http://www.jccmi.edu/academics/academic_calendar.htm)

Incomplete Policy: (Excerpt from JCC Policy) "A student may request an incomplete from the instructor. The incomplete will be granted only if the student can provide documentation that his or her work up to that point is sufficient in quality, but lacking in quantity, due to circumstances beyond the student's control. Furthermore, a written plan for making up the missing work within one semester must be completed by the student. Final determination of whether an incomplete will be given is the instructor's decision."

Academic Honesty Policy: You are *encouraged* to talk to each other, but all your work must be your own. In other words, "group-work" is a great way to learn material, but anything you submit for a grade must be done by you – reflecting your own thought processes, not that of someone else. If I suspect you of academic dishonesty, I will follow JCC'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 (whichever I deem necessary).

Getting Extra Help: You can always contact me for help. I also encourage students to utilize the free tutoring services available in the Center for Student Success in Bert Walker. The Winter 2017 tutor schedule is linked in our MyMathLab course.