General Class and Course Information

Course ID: MAC1105
Course Subject: MAC
Course Number: 1105
Course Title: College Algebra (AA)
Reference Number: 258716
Credits/ Clock Hours: 3.00
Term/Date: Fall 2019; 2019-08-22 - 2019-12-18
Days: MW
Time: 4:00 PM - 5:15 PM
Room: AA 00124

Course Description: This course includes: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; applications (such as curve fitting, modeling, optimization, exponential and logarithmic growth and decay). (*)

Prerequisite/Corequisite: Prerequisite: MAT1033C (with a grade of C or higher)

Gordon Rule Class
This course is designated as a course that meets three-credits of the Gordon Rule’s six-credits computation requirement. This means that the course has significant computation requirements.

Instructor's Information
Name: Bridget Rogers
Office Location: AA 0118
Telephone: (561) 207-5061
Faculty Webpage: https://www.palmbeachstate.edu/pf/Faculty.aspx?id=rogersb
Email: rogersb@palmbeachstate.edu

Your Campus bookstore offers a Price Match guarantee. If you find our class texts or access codes cheaper at Booksmart, Barnes & Noble, or Amazon the campus bookstore will match the price at the time of purchase, or for up to 7 days after purchase. Search your course materials by the ISBN provided in this syllabus to assure that your price match is acceptable.

Supplementary Books/Materials
Essentials of College Algebra
9780134851044
Lial
12th edition
Other Information on Textbooks and Materials Needed for Class

The textbook is optional. Access to MyMathLab is REQUIRED.

Course ID: rogers05523

Course Learning Outcomes

- Demonstrate graph exponential and logarithmic equations and use their properties to solve applications.
- Demonstrate graph linear functions and develop equations for straight lines.
- Demonstrate graph quadratic functions by sketching features as well as point plotting, symmetry and translations.
- Determine whether a function is one-to-one and, if so, find the inverse function.
- Graph rational functions.
- Solve systems of equations and systems of inequalities.
- Use ordinary operations and compositions in the algebra of functions.

Class Information

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Section</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>8/26</td>
<td>Intro 2.1</td>
<td>First day Introduction Rectangular Coordinate</td>
</tr>
<tr>
<td>W</td>
<td>8/28</td>
<td>2.3, 2.4</td>
<td>Functions</td>
</tr>
<tr>
<td>W</td>
<td>9/4</td>
<td>2.4, 2.5</td>
<td>Linear Functions</td>
</tr>
<tr>
<td>M</td>
<td>9/9</td>
<td>5.1</td>
<td>Equations of Lines</td>
</tr>
<tr>
<td>W</td>
<td>9/11</td>
<td>1.4</td>
<td>Quadratic Equations</td>
</tr>
<tr>
<td>M</td>
<td>9/16</td>
<td>Review</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>9/18</td>
<td>Test 1 – Homework Due (2.1-1.4)</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>9/23</td>
<td>3.1</td>
<td>Quadratic Functions and Models</td>
</tr>
<tr>
<td>W</td>
<td>9/25</td>
<td>2.2</td>
<td>Circles</td>
</tr>
<tr>
<td>M</td>
<td>9/30</td>
<td>2.6</td>
<td>Graphs of Basic Functions</td>
</tr>
<tr>
<td>W</td>
<td>10/2</td>
<td>2.7</td>
<td>Graphing Techniques</td>
</tr>
<tr>
<td>M</td>
<td>10/7</td>
<td>2.8</td>
<td>Function Operations and Composition</td>
</tr>
<tr>
<td>W</td>
<td>10/9</td>
<td>5.5(5.6)</td>
<td>Nonlinear Systems</td>
</tr>
<tr>
<td>M</td>
<td>10/14</td>
<td>Review</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>10/16</td>
<td>Test 2 – Homework Due (3.1-5.6)</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>10/21</td>
<td>3.2</td>
<td>Synthetic Division</td>
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<tr>
<td>W</td>
<td>10/23</td>
<td>3.3, 3.4</td>
<td>Zeros of Polynomial Functions</td>
</tr>
<tr>
<td>M</td>
<td>10/28</td>
<td>3.4, 3.5</td>
<td>Polynomial Functions and graphs, Rational Functions</td>
</tr>
<tr>
<td>W</td>
<td>10/30</td>
<td>Review</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>11/4</td>
<td>Test 3 – Homework Due (3.2 – 3.5)</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>11/6</td>
<td>4.1</td>
<td>Inverse Functions</td>
</tr>
<tr>
<td>W</td>
<td>11/13</td>
<td>4.2</td>
<td>Exponential Functions</td>
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<tr>
<td>M</td>
<td>11/18</td>
<td>4.3</td>
<td>Logarithmic Functions</td>
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<tr>
<td>W</td>
<td>11/20</td>
<td>4.4</td>
<td>Evaluating Logarithms</td>
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<tr>
<td>M</td>
<td>11/25</td>
<td>4.5</td>
<td>Exponential an Logarithmic</td>
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<tr>
<td>W</td>
<td>11/27</td>
<td>4.6</td>
<td>Applications of logs</td>
</tr>
<tr>
<td>M</td>
<td>12/2</td>
<td>Review</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>12/4</td>
<td>Chapter 4 Test – Homework Due (4.1 – 4.6)</td>
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</tr>
<tr>
<td>M</td>
<td>12/9</td>
<td>Review for Final Exam</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>12/11</td>
<td>Final</td>
<td>FINAL EXAM</td>
</tr>
</tbody>
</table>
Assignments, Tests, Quizzes and Final Exam Schedule, with percentage/points of grade

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Points per</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Test's</td>
<td>100 each</td>
<td>400</td>
</tr>
<tr>
<td>Quiz/Projects</td>
<td>25 each</td>
<td>100</td>
</tr>
<tr>
<td>Homework</td>
<td>25 per unit</td>
<td>100</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100 each</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>700</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Tests**
There will be 4 tests (100 points each), and a cumulative final exam (100 points). All tests will be paper and pencil tests, and short answer style questions. The final exam replaces the lowest test grade; this will cover any emergencies that may occur. Students are required to put cell phones under their desks during the test, and any student who fails to comply will be asked to leave and receive a zero as their grade.

**Homework**
Homework assignments will be completed via MyMathLab. Each unit is worth 25 points. Points are awarded proportional to the number of sections completed by the student. A section is considered completed if the student reaches a score of 80%. Students are to complete assignments by a due date specified in MyMathLab. Please see those dates and complete assignments in a timely manner. Check the due dates regularly as they are subject to change at the instructors' discretion.

**Grade Calculation Example:**
Change the percents to decimals, add, divide by the number of sections in the unit, and multiply by 25. In the following example: \(0.8 + 0.3 + 0.9 + 1.0 + 0.8 = 3.8/5 = 0.76 \rightarrow 0.76 \times 25 = 19\)

Student would receive a 19/25 for this unit of homework.

<table>
<thead>
<tr>
<th>Section 2.1</th>
<th>80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 2.3</td>
<td>30%</td>
</tr>
<tr>
<td>Section 2.4</td>
<td>90%</td>
</tr>
<tr>
<td>Section 2.5</td>
<td>100%</td>
</tr>
<tr>
<td>Section 5.1</td>
<td>80%</td>
</tr>
</tbody>
</table>

**Quiz/Projects**
Students will be assigned 4 take home mini projects that will require them to use Microsoft Excel. Microsoft Excel is free to use for students. If a student does not have a computer, they are expected to complete their assignments in the computer lab on campus (BB207).

**Extra Credit**
Students can earn extra credit by using the on campus tutoring center (1 point per hour, up to 5 points per test). Extra credit is never taken late for any reason. If a student does not complete the 5 points for a test, they forfeit those points and will not be given the opportunity to earn them later in the semester. Any additional extra credit assignments
will be assigned via email, so please check email regularly to avoid missing any opportunities. Be sure to swipe in with your panther card to receive credit.

**Professor's Expectations**
Study time outside of class will vary from student to student; on average students are expected to study a minimum of 5-8 hours a week outside of class; students who find that their fundamentals are lacking will have to work harder. Please visit the Student Learning Center for free tutoring. Visit [www.rogersmath.com](http://www.rogersmath.com) to print class notes and handouts.

**Grading**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>100 - 90%</td>
</tr>
<tr>
<td>B</td>
<td>89 - 80%</td>
</tr>
<tr>
<td>C</td>
<td>79 - 70%</td>
</tr>
<tr>
<td>D</td>
<td>69 - 60%</td>
</tr>
<tr>
<td>F</td>
<td>59 - 0%</td>
</tr>
</tbody>
</table>

**Attendance Policy**
Students are expected to attend all courses and course activities for which they are registered. Any class meeting missed, regardless of cause, reduces the opportunity of learning and may adversely affect a student's achievement in the course. Students are required to attend at least 90% of the class meetings in order to receive credit for the course. An accurate record of attendance will be kept for each course. If a student misses one third or more of a class session, the student will be counted absent. Three tardies will count as one absence. Leaving early is the same as being tardy. **Students are responsible for knowing the information covered in class regardless of their attendance.**

**Electronic Device Policy**

**Cell Phones**
Cell phone use during class is a distraction to everyone. If you have an emergency and are waiting for a phone call, inform the instructor ahead of time. Otherwise, set your phone to "silent mode" and put it in your pocket or purse. Cell phones are not allowed on your desk.

**Calculator**
Graphing calculators are highly recommended; such as, the T.I. 83 or T.I. 84. Symbolic calculators (such as the TI 89) are NOT allowed.

**PBSC email**
All communications to and from the student and professor will be completed by using your PBSC email address or the Remind App. Your email address may be found on your Panther Web page. It will need to be activated. Please follow instructions given the first time you sign in. Remind App instructions will be given on the first day of class.

**Late Assignment Policy**
No late assignments will be graded. Students are to complete assignments by a due date specified in MyMathLab.

**Make-up Exam Policy**
There are NO makeups on missed homework, projects, tests, or final exam. It is your responsibility to keep track of the due dates for the assignments. NO MAKE-UP TESTS ARE GIVEN. A student who misses a test will have that test grade replaced by the grade earned on the final exam. Students will receive a zero on all subsequent missed tests but those grades will not be replaced. This will cover any emergencies that may occur. Keep in mind that the final exam is cumulative.

**Academic Dishonesty Policy**
Academic dishonesty includes the following actions, as well as other similar conduct aimed at making false representation with respect to the student's academic performance:
1. Cheating on an exam,
   a) Students caught using their cell phones during the test will be asked to leave and receive a zero as their grade.
   b) Students caught collaborating with classmates will both be asked to leave and receive a zero.
   c) Students caught with testing materials (not provided/approved by the instructor) will be asked to leave and receive zero as their grade.
2. Collaborating with others on work to be presented, if contrary to the stated rules of the course,
3. Submitting, if contrary to the rules of the course, work previously submitted in another course,
4. Knowingly and intentionally assisting another student in any of the above actions, including assistance in an arrangement whereby work, classroom performance, examination, or other activity is submitted or performed by a person other that the student under whose name the work is submitted or performed,
5. Plagiarism.

**Academic Dishonesty Penalty for Violation**
Students caught cheating on any assignment will be given a zero on the assignment. Students caught a second time will be given a failing grade.

**Withdrawal Policy**
Any student who does not attend the first 3 class meetings will be dropped from the course and receive a WN. Any student missing 5 or more class meetings may be withdrawn from the course. See *Attendance Policy*.

**Blackboard Gradebook/SafeAssign (GB) Class Information**
Blackboard Gradebook/SafeAssign (GB) Class Information
This course meets traditionally in the classroom, but is also supported by a limited Blackboard course site. This course site provides an electronic Gradebook and may also provide SafeAssign assignments and some handouts/links to online resources which require you to have Internet access. Before you decide to take this course which utilizes a Blackboard Gradebook/SafeAssign course support site, it is recommended that you carefully review the:
Blackboard Access

- Access to your Component Course is AVAILABLE each term on the FIRST DAY OF CLASSES

Blackboard Orientation and Assistance

- How to Register for the Free Online Orientation Course: ELO1000
- How to obtain Blackboard assistance from the Online Student Support Center

Blackboard Tips & Tutorials

- How to Ensure your Computer is Compatible
- Ensure you Understand Examination and Assignment Rules
- Learn the Functions of Blackboard

Then proceed to - Palm Beach State Blackboard (https://palmbeachstate.blackboard.com) to Login to your Gradebook/SafeAssign (GB) Course Site (not available before the first day of class) using the same **USERNAME and PASSWORD** you used to register for classes.

For Additional Information and Obtaining Assistance visit the eLearning Student Support Center https://www.palmbeachstate.edu/elearning/students/default.aspx

Blackboard Gradebook/SafeAssign (GB) Course Requirements

Computer Systems

Your computer system resources must be compatible with the Learning Management System (LMS) used to deliver/manage course content. System Check (analysis) is provided on the course login page at https://palmbeachstate.blackboard.com. Your computer needs to be configured per recommended settings. Failure to do so generally results in test submission and other participative action errors. These types of errors are generally not accepted as an excuse for missed submissions.

SLC Computer Lab

If students do not have access to a computer at home, the SLC Computer Lab at a Palm Beach State campus can be used to complete course assignments. Visit the SLC Computer Lab webpage at http://www.palmbeachstate.edu/slc for location and hours.

Student Computer & Learning Management System Skills

Students need to possess basic webbrowsing skills and need to learn the functions of the Learning Management System (LMS). Students can learn how to use the LMS by enrolling in a free ELO1000 Online Orientation Course. Online video tutorials are provided for all major LMS functions and can be accessed from the online classroom by clicking on the ‘Support’ tab on the right-hand side of the course window.

Course Login

Information on how to change your password and solving other login related issues is provided on the LMS Login Page:
https://palmbeachstate.blackboard.com – simply follow the link
Forgot Your Password?
(https://webservices1.palmbeachstate.edu/FCCSC/pbsc/security/passwordhelp.jsp)

Please keep in mind:
Username: Your PBSC Student ID
Password: Your PBSC Password (must be 6 characters)

Online Textbook Purchase

The textbook(s) can be purchased at the PBSC Campus Bookstore or online at http://www.bkstr.com/palmbeachstcentralstore/home.

For GB Course Assistance, please contact your:
- Professor/Instructor with Course Instructional Content (handouts provided, assignment availability dates, course instructions, etc.) issues.
- Student Helpdesk with Username/Password & General Access issue: Phone: 5618684000.
- Online Student Success Specialist for all LMS (Blackboard) issues and assistance:
  Phone: 561.868.3303
  Email: elearningsuccess@palmbeachstate.edu
  Web Form: http://palmbeachstate.co1.qualtrics.com/SE/?SID=SV_etgXQrKPN7GX0YI&Q_JFE=0

College Policies

Academic Dishonesty/Integrity
Academic misconduct including, but not limited to, unauthorized use of aids, cheating, fabrication, plagiarism, or facilitating academic dishonesty in the classroom or other college environments, as defined below:

Plagiarism
- Taking the words or specific substance of another and either copying or paraphrasing the work without giving credit to the source.
- Submitting a term paper, examination or other work written by someone else.
- Failure to give credit in a footnote for ideas, statements of facts or conclusions derived by another.
- Failure to use quotation marks when quoting directly from another person, whether it is a paragraph, a sentence or even a part thereof.
- Similar and extended paraphrasing of another.

Cheating
Using unauthorized notes, study aids, or information from another student or student’s paper on an in-class examination; altering a graded work after it has been returned, then submitting the work for regrading; and allowing another person to do one’s work and to submit the work under one’s own name or otherwise not following the rules or instruction to gain an advantage.

Fabrication
Presenting data in a piece of work that were not gathered in accordance with guidelines defining the appropriate methods for collecting or generating data and failing to
include a substantially accurate account of the method by which the data were generated or collected.

**Aiding and Abetting Dishonesty**
Providing material or information to another person with knowledge that these materials or information will be used improperly pursuant to Florida Statutes 877.17 (1).

**Forgery**
Altering documents affecting academic records; forging a signature of authorization or falsifying information on an official academic document, election form, grade report, letter of permission, petition, or any document designed to meet or exempt a student from an established College academic regulation.

**Warning:** Students may not withdraw from a class to avoid a failing grade as a result of such a violation.

Please refer to the Palm Beach State College Student Handbook ([www.palmbeachstate.edu/current](http://www.palmbeachstate.edu/current) for link to the student handbook).

**Classroom Etiquette and Student Behavior Guidelines**
Students will demonstrate respect for professors and fellow students. Behavior that is deemed disruptive to a positive learning environment will be addressed by the professor and may result in a warning. If the student's behavior is deemed extreme in nature, the student will be referred to the dean of students for disciplinary action in accordance with the Student Handbook. Consequences for such behavior may result in formal conduct charges and sanctions.

**Computer Competency Component**
Each student will, to the satisfaction of the professor, demonstrate a fundamental understanding of basic computer operations through various professor-determined exercises and/or assignments.

**Disability Support Services**
Students with disabilities are advised, in compliance with federal and state laws, that accommodations and services are available through the office of Disability Support Services (DSS). It is the student's responsibility to contact the Disability Support Services office and to submit appropriate documentation prior to receiving accommodations and/or services. Please see the website at [www.palmbeachstate.edu/disability](http://www.palmbeachstate.edu/disability) for additional information.

**Eating, Drinking and Smoking**
Eating and drinking are confined to areas designated on the campus. Smoking, including electronic cigarettes (also known as e-cigarettes, vapors, vaporizers, or nicotine vaporizers), is not permitted in any College building and only in areas designated at each campus.

**Final Course Grade Appeal**
The evaluation of academic work is the responsibility of the faculty member/instructor. The method for assigning the final course grade is established by the faculty member/instructor. Per Board Rule 6Hx-18-3.191, faculty/instructors shall communicate the grading policy of the course to their students in writing. If this policy changes during the term, students should be notified of any changes in writing. The method to determine final course grades must be communicated to students in a course syllabus prior to the beginning of the course. Should a student have a question about a final
course grade, please follow the procedures as outlined in the student handbook: www.palmbeachstate.edu/current.

**Mid-Term Grade Reporting**
Within one week after the close of the mid-term grading period, mid-term grades will be made available to all students for each class by either written notification or individual conference.

**Student Responsibility Policy**
When a student attends the College, s/he becomes subject to its jurisdiction. Students are expected to conduct themselves in a responsible manner, in all areas of campus life. By enrolling, they pledge to obey the rules and regulations of the College and are responsible for observing all College policies and procedures as published in the student handbook, the College catalog, and other College publications which may be related to specific program of study. The student will be responsible for preparing for class, participating in class, and completing assignments on time.

**Palm Beach State Websites of Interest**
Please see this web page (www.palmbeachstate.edu/current) for a list of web addresses for students.

**Withdrawal Policy for Individual Courses**
The last day to withdraw from a College course with a "W" grade in this course is 2019-11-06. It is the responsibility of the student to use the PantherWeb system or visit a campus Registrar’s office to withdraw. An official withdrawal entitles the student to a grade of "W" in the class. Students may not withdraw from a class to avoid a failing grade as a result of a violation of the Academic Dishonesty/Integrity Policy.

**Department Contact Information**
Name: Dr. Becky Mercer  
Office Location: SC 160  
Telephone: (561) 207-5416  
Email: mercerb@palmbeachstate.edu  
Job Title: Associate Dean