Math 1314 – College Algebra
Brazosport College – Fall 2015

Instructor: Nicole Tunmire (Ms. T), Department of Mathematics
Office: J-225
Phone: 979-230-3130
E-Mail: nicole.tunmire@brazosport.edu

Office Hours: by appointment and

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>12:15-1:00pm</td>
<td>F-102</td>
</tr>
<tr>
<td>Tuesday</td>
<td>1:00-3:00pm</td>
<td>Student Success Center</td>
</tr>
<tr>
<td>Wednesday</td>
<td>12:15-3:00pm</td>
<td>F-102</td>
</tr>
<tr>
<td>Thursday</td>
<td>1:00-3:00pm</td>
<td>Student Success Center</td>
</tr>
<tr>
<td>Thursday</td>
<td>7:00-8:00pm</td>
<td>G-210</td>
</tr>
</tbody>
</table>

Course Description and Prerequisites

College Algebra provides the opportunity for further development of familiar linear and quadratic equations and introduces more complex functions like polynomials, exponentials and logarithms, along with graphing techniques for each function. This course also covers other algebraic material, including complex numbers, algebra of functions, and inequalities.

Prerequisite: None

Required skill level code: College-level math

Course Goals

Upon completion of the course, the student will be able to:

- Perform arithmetic operations with complex numbers.
- Find all imaginary solutions to a polynomial equation.
- Solve equations containing radicals.
- Solve non-linear inequalities.
- State the domain of a function in interval notation.
- Graph a function using transformations.
- Find the composition of two functions.
- Find the inverse of a one-to-one function.
- Find the slope, intercepts, and graph of a linear function.
- Find the intercepts of the graph of a polynomial function.
- Find the domain and graph of an exponential function.
- Evaluate a log function.
- Use log properties to simplify an expression.

Updated 8/27/2015
Course Requirements

Required course materials are available at the Brazosport College bookstore, on campus or online at http://www.brazosport.edu/bookstore. A student of this institution is not under any obligation to purchase a textbook from the college bookstore. The same textbook is/may also be available from an independent retailer, including an online retailer. The courseID is tunmire50014.

Calculator: A stand-alone graphing calculator (not on a phone or other electronic device) will be needed for assignments, in class activities, and exams. Recommended models are TI-83 and TI-84. Advanced graphing calculator models, such as TI-89, will not be permitted.

Classroom Environment: Community is a critical element for a positive learning environment. As such the class will be structured so that we are all on a journey together. Students are expected to assist in maintaining a classroom environment that is conducive to learning. In order to assure that all students have the opportunity to gain from time spent in class, all behavior interfering with this learning atmosphere will result in the students being dismissed from class for that day. This includes, but is not limited to behavior such as use of cell phones and other electronic devices, making remarks not relevant to the subject matter, and reading and working on material not related to the subject matter. Dismissal from class for disruption is an absence and therefore the student is responsible for the material missed and will lose 5 participation points. You are expected to get to know others in the class and foster these learning relationships. Remember that we are here to support each other’s learning. Your presence, participation, and respect are vital to that goal.

Communication: Staying in touch with your instructor will help you achieve greater success in the course. To that end there are requirements for communication for the course.

- You need to use your Brazosport College email! Check this regularly for messages regarding this course and campus activities. Your instructor will not respond to messages from outside email addresses. You can expect response to emails within 24 hours. If you have not received a reply within that time frame, please attempt the email again. Contact Brazosport College IT Helpdesk (979-230-3266) if you need assistance accessing your college email account.
- Your instructor will also use Cel.ly to keep in more direct contact with the class. All students will need to get the free app, use the website, or join via text using @Fall2015Math1314. See the Cel.ly handout for instructions.

Student Responsibilities: Students are expected to fully participate in the course. The following criteria are intended to assist you in being successful in this course.

- understand the syllabus requirements
- use appropriate time management skills
- communicate with the instructor
- complete course work on time
- work on material outside of class time
- work with other students at appropriate times
- be respectful to all students and the instructor
- make use of all available resources

Updated 8/27/2015
Assignments and Grading Policy

MyMathLab Assignments
For all material covered in the class, practice problems will be assigned on MyMathLab.com. Students are responsible to keeping up with the assigned work and due dates which are clearly stated on the site. Students should work problems on paper and keep them for reference. MyMathLab homework assignments will count for 20% of the overall course grade.

Attendance and Participation
Attendance is critical for success in the course. Attendance will be taken at all class meetings. All students will begin the semester with 50 attendance points. Students will gain 1 point for every class attended. Students will lose up to 5 points for each class missed. Student may reduce the points lost for absences by contacting the instructor within at least 2 days. Additional participation point will be awarded throughout the semester for answering questions, demonstrating work in class, and group activities.

Students may earn additional participation points for participating in activities and attending events on campus. Any college sponsored event is eligible for up to 5 participation points. In order to receive participation points for a campus event, student will need to complete a Campus Activity Reflection within 5 days of attending the event. Points will be award based on the requirements of the event and the effort given to completing the reflection.

Attendance and participation will account for 20% of the overall course grade.

Quizzes
Most class meetings will begin with a short quiz over previously covered material. Students must be present to attempt quizzes. Quizzes count for 10% of the course grade.

Tests
There will be 3 tests given during the semester. They will count for 30% of the course grade.

Final Exam
The final exam is a comprehensive final.

Grades will be assigned as follows:

<table>
<thead>
<tr>
<th>Overall Course Grade</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80-89</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70-79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60-69</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Below 70</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Updated 8/27/2015
Important Dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 7</td>
<td>Labor Day (Campus Closed)</td>
</tr>
<tr>
<td>October 30</td>
<td>Last Day to Withdraw from Classes</td>
</tr>
<tr>
<td>November 24-27</td>
<td>Thanksgiving Holiday (Campus Closes at noon</td>
</tr>
<tr>
<td>December 8,</td>
<td>Final Exam</td>
</tr>
<tr>
<td>10:30am-12:30pm</td>
<td></td>
</tr>
</tbody>
</table>

Academic Honesty and Classroom Conduct

Brazosport College assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately. Please refer to the Brazosport College Student Guide for more information. This is available online at http://www.brazosport.edu. Click on the CATALOGS AND SCHEDULES link under STUDENTS.

Academic dishonesty violates both the policies of this course and the Student Code of Conduct. In this class, any occurrence of academic dishonesty will be referred to the Dean of Student Services for prompt adjudication, and will, at a minimum, result in a grade of zero on the assignment/quiz/test where the instance occurred and a second instance will result in an automatic F in the course. Remember that your integrity is far more valuable and lasting than a grade. It’s not a good trade! Sanctions may be imposed beyond your grade in this course by the Dean of Student Services.

Since we are working so closely with each other in the class your attention and respect will be very important. Any student distracting themselves and/or others or behaving disrespectfully will be dismissed from class and responsible for completing that day’s materials on their own. Such behaviors may result in a report to the Dean of Students.

Student Services Information

Mathematics Department: Call 979-230-3225 and speak to Debbie Duncan or Cliff O’Neal.

Math Center: Located within the Student Success Center (second floor of the main building above the counseling and registration office) is the Brazosport College Math Center. The Math Center provides drop-in tutoring Monday – Thursday 8 am – 8 pm and Friday 8 am – noon. The Math Center can assist with transitional math, college algebra, trigonometry, accounting, statistics, calculus, and every other math course offered at the college. Check out our growing collection on handouts, videos, and other online resources, too. For questions, contact Rebecca Goins at 979-230-3134. Also, visit the Math Solutions Website: www.brazosport.edu/math

Other Student Services:

- Counseling and Advising 979-230-3040
- Student Activities 979-230-3355
- Financial Aid 979-230-3294
- IT Department 979-230-3266