Brazosport College

COURSE SYLLABUS

Math 1314
College Algebra

Instructor: Mrs. **Ioana Agut**
                   Assistant Professor of Mathematics

E-mail: ioana.agut@brazosport.edu

Office: **J.227**

Phone: **979-230-3386**

Fax: **979-230-3390**

COURSE SYLLABUS
MATH 1314 – *College Algebra*

Course Description/Overview:
The *College Algebra* course is one of the fundamental college-level courses in Mathematics. It introduces us in algebra's world, where we build confidence with the topics as: complex numbers, solutions for equations including polynomial equations, exponential and logarithmic equations and inequalities, polynomial, exponential and logarithmic functions and graphing techniques. Also this course introduces us in properties of mentioned functions and allows us to find the invers of a one-to-one function.

Textbook:
The course textbook is ***College Algebra***, 10th Edition by M. Sullivan, The Pearson Prentice Hall Company.

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.

Required Material:
Graphing Calculator will be provided by the instructor during each class period. The students MUST return the graphing calculator at the end of each class. Please see the attachment paper with all the graphing calculator rules.

Course Outcomes:
Upon completion of the course, the student will be able to:
1. Perform arithmetic operations with complex numbers.
2. Find all complex solutions to a polynomial equation.
3. Solve equations containing radicals.
4. Solve non-linear inequalities.
5. State the domain of a function in interval notation.
6. Graph a function using transformations.
7. Find the composition of two functions.
8. Find the inverse of a one-to-one function.
9. Find the slope, intercepts, and graph of a linear function.
10. Find the intercepts of the graph of a polynomial function.
11. Find the domain and graph of an exponential function.
12. Evaluate a log function.
13. Use log properties to simplify an expression.
14. Solve exponential equations.
15. Solve log equations.
16. Solve application

Assessments:
During the semester there will four (4) Tests and one (1) Final Exam.
Any written open-answer assessment must contain all the steps performed in order to get the solution, and **must be presented in a mathematical, methodical manner** (all the math symbols must be used properly). It is the student responsibility to turn in the assessment. If a student **fails to turn in the assessment** on time he/she will get a grade of zero for it.
All the assessments are timed!

COURSE SYLLABUS
MATH 1314 – *College Algebra*

Grading Policy/Evaluation:

The grades will be counted in the following way:

Test 1	20%
Test 2	20%
Test 3	20%
Test 4	20%
Final Exam	20%

Final Exam:

The Final Exam will contain open answer questions and/or multiple-choices exercises questions at instructor discretion. For all the open answer questions, *the student must show all the work in appropriate manner, using mathematical symbol, in order to get full credits*. **The student cannot leave the classroom during the final exam unless he/she finish it.** No makeup is allowed for the final exam!

Homework:

There will be homework assigned for every lesson (see the attached schedule). The homework will **not** be collected and graded, but the instructor will ask to see your homework any time during the semester. Exercises similar with the ones in homework will be in the TESTS.

As part of the homework the students must read the lesson before coming to class.

Tests:

Four (4) Tests will be administrated in the regular class. They will be mixed open-answer and/or multiple choices questions. For the open answer questions the students are required to show all the work performed on the tests paper. *The student must show all the work in appropriate manner, using mathematical symbol in order to get full credits.* **No makeup work is allowed unless extraordinary circumstances by providing official documents! The reason of missing a test day should be very strong in order to consider the official documents. Any make up must be complete in 3 working days from the initial test day.**

Grading Scale:

Unless an announced in changes is made, the following scale will be applied for this course:

A:	90-100;
B:	80-89;
C:	70-79.
D:	60-69
F:	< 60.

Attendance:

The students are strongly encouraged to attend every lecture class. Each class meeting is considering as an entity. **After 3 excused and unexcused absences the instructor will consider "excessive absences" and may fail or drop the student**. It is the instructor discretion what pathway will be chooses. Also, it is the student responsibility to drop from the course if he/she considered necessarily before or on the last day of withdrawing.

To avoid unnecessary class disruptions, the students should arrive on time and remain seated until the class is dismissed. *If a student is coming late in class or lives the class early without a prior notice and extraordinary circumstances, the instructor **may consider** the student absent for that meeting*.

The time spent in the class, the student will follow the instructor's directives and will respect the School's student conduct (including academic honesty). The instructor may initialize different attendance rules during the semester.

Dropping policy:

From Brazosport College Calendar and from the instructor's schedule, you can find the last day when you can get a W for this course. After this date **no late withdraws form will be signed**, unless extraordinary circumstances official documented.

COURSE SYLLABUS
MATH 1314 – *College Algebra*

Academic Honesty:

    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.

  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 may, at a minimum, result in <u>getting a zero for the assessment if it is the first time, followed by failing grade</u> in this course, if it is the second time. Sanctions may be imposed beyond your grade in this course by the Dean of Student Services.

Time requirement/recommended:

    Taking into account the volume of the information and the homework assigned, a minimum of <u>8 hours a week outside of class is required for course preparation including: reading the lessons from the textbook, reviewing the class notes and completing the homework</u>. A team of tutors is available for you and you can contact them at 230-3527. You can find their schedule on the instructor webpage.

Students with disabilities:

    Brazosport College is committed to providing equal education opportunities to every student. Brazosport College offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. Please contact Phil Robertson, Special Populations Counselor, at 979-230-3236 for further information.

Miscellaneous:

    No **electronic recording device can be used in class, unless Mr. Phil Robertson announces me prior. The students may only take written notes from the class.**

    No **cell phones are allowed to be used during the class, quizzes, tests or exam. Please turn off any electronic device, which may disturb the class activity. During the lecture the cell phones mast be turned off or silenced.**

    No **food / snack can be brought into the class and be consumed, at any time. You may have a bottle of water.**

    No **other electronic devices, including laptop, palm, iPod, iPad, tablets, are allowed to be brought and used in class, at any time unless a <u>prior instructor notice and approval</u>.**

IMPORTANT:
1. **NO CLASS will be hold during the Final Exam Week.**
2. There will be **NO OFFICE HOURS during the Final Exam Week**.
3. There will be **NO ASSESSMENTS** at the end of the semester to increase the grades. The students must perform the work during the all 15 weeks class period plus final exam week.
4. Extra copy of the syllabus, tentative schedule and announcements can be found at the web address: http://www.brazosport.edu/sites/CurrentStudents/Faculty/IoanaAgut/Pages/default.aspx
5. **<u>Lecture notes may be available for students on the instructor webpage.</u>**
6. **<u>Any misbehavior leads to a withdraw form initiate by the instructor. Sleeping, talking, texting, and eating in class is considered misbehavior. Working to another assessment for another instructor is considered misbehavior too.</u>**
7. **NO GRADE** will be provided over the e-mail or phone, family members or friends. You can find your class grade in person.

Other student Services Information:

Students Success Center: 979-230-3184: http://www.brazosport.edu/StudentSuccessCenter/Pages/Welcom.aspx
Learning Services: 979-230-3253: http://www.brazosport.edu/learningservices/Pages/default.aspx
Counseling and Advising: 979-230-3040: http://www.brazosport.edu/counseling-testing/Pages/default.aspx
Financial Aid: 979-230-3294
Student Activities: 979-230-3355

For any technical problems please contact:
Help Desk at 979-230-3266. http://www.brazosport.edu/IT/Pages/default.aspx