

# Sophomore and Junior MTH 163/164, Pre-Calculus 1 and2

Fall/Spring2013-2014, Moore Lecture, CBGS Julia Jones, Teacher Chesapeake Bay Governor's School for Marine and Environmental Science Course Syllabus

# **Instructor Contact Information**

Name : Julia Jones Email: JJones@cbgs.k12.va.us Phones: 804 333-1306(CBGS) 804 357-4833(personal cell)

# **Instructor Availability:**

Between 10:30-3:30 M-F After Home school by appointment M-F 10:30-12:30 Sat by appointment

# **Response Time:**

You can reach me by e-mail or text to the above personal number. I respond quickly to text messagesbut please put your **course name** and **number** in the subject line in both cases to expedite response. *i.e. Jon Anderson MTH 163 can we meet for tutoring on Jul 3.* (I do not have full access to either device during the hours of 7:30 to 10:30. I usually respond within 24 hours during the week and 48 on weekends)

# **Course Description:**

1<sup>st</sup>Semester MTH 163: Presents college algebra, matrices, and algebraic, exponential, and logarithmic functions.

2<sup>nd</sup> Semester MTH 164: Presents trigonometry, analytic geometry, and sequences and series.

# **Class Meeting Times:**

Sophomores	Juniors
Blue week:	Blue week:
Mon, Tues, Fri	Mon 8:00-9:15,
9:15-10:30	Wed, Thurs 9:15-10:30
Green week:	Green week:
Mon, Thurs, Fri	Tues 8:00-9:15
8:00-9:15	Wed, Fri 9:15-10:30
Exam Date:June 3-5 (day to be announced)	

# **Other Dates of Importance:**

1<sup>st</sup> semester : Labor Day Aug 30, Sept 2, Thanksgiving Nov 27-29, Christmas Dec 23-Jan 3
2<sup>nd</sup> semester: Winter holidays Jan 20, Feb 17, Spring Break April 14-April 25, Memorial Day May 26.
End of Nine weeks: Nov 1, Jan 17, March 21, and June 6
Full Days: Aug 26-29, Nov 26, March 15, May 23

# STUDENTS ARE <u>REQUIRED</u> TO ATTEND – A Fall field trip and Mar 15<sup>th</sup> Symposium

\*\*\*\*In case of an emergency that affects the meeting schedule for this class or the instructor's availability, information will be announce on the radio and TV. Please sign up for RCC alert because if the college is closed the CBGS classes will be closed **Course Credit:** 3 credits each semester for a total of 6 credits

### **Prerequisites:**

Competency in Math Essentials MTE 1-9 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or equivalent High School Algebra 2 class.

#### **Objectives**

As a result of the learning experience in this course, the student should be able to: Math 163

- Solve problems involving equations, inequalities, and systems of equations
- Operate on functions (addition, multiplication, composition, and inverses)
- Graph linear, quadratic, rational, exponential, and logarithmic functions
- Factor polynomials and find zeros of polynomials
- Use matrices to solve systems of linear equations
- Use a graphing utility as an aid to problem solving

#### Math 164

- Evaluate trigonometric and inverse trigonometric functions
- Use trigonometric formulas to prove trigonometric identities, solve triangles, and trig equations
- Graph conic sections
- Create sequences and series (including arithmetic and geometric)
- Use a graphing utility as an aid in problem solving

# **Method of Instruction**

The course content will be taught primarily through Moore' Pedagogy style where the students will have a series of lectures one day with interactiveself-paced interactive worksheets with ample class time being reserved for student questions and evaluation. Homework will be assigned on a regular basis covering material from the lectures and/or the textbook .Each student is expected to study the assigned material and to work all the assigned homework problems before coming to each class. Your success in the course will depend on it

#### **Instructional Materials**

Precalculus, 4th ed., R. Blitzer; Prentice Hall Publishing, 2010, ISBN 9780321559845

Graphing Calculator– A graphing calculator is an essential tool for this course and each student is expected to have one. The TI-83+ or TI-84 (silver edition) model is recommended because that is the model that will be used for demonstrations in class. The TI-92, TI-89 and similar calculators that possess a CAS (computer algebra system) WILL NOT BE PERMITTED ON TESTS. IF you choose to use a Casio, please understand it will not be covered in class. You may check calculators out in the office. Please remember to return at the end of the school year. We will NOT use a Calculator for simple calculations and they will NOT be allowed.

# **Grading and Evaluation / Testing Policy**

You will want a **3-ring binder (½ - 1 inch) for each semester**. All materials I give you (quizzes, tests, level worksheets, handouts ...) will be three-hole punched and need to be kept in your binders. BE ORGANIZED. Your homework done on **loose leaf paper** will have a section in this notebook. The notebooks will be collected at the end of the nine-weeks and possible during the nine-weeks. You will also want a **spiral notebook** for examples given in class. Points will be awarded throughout the year for the following graded assignments: Quizzes & Tests, Projects, Level Worksheets, Participation and Attitude & Effort. You should keep track of your grades in your Grade Tracker sheet in the front of your notebook binder. At any given time, you can figure out your current grade by dividing all the points you have earned by the total number of possible points.

Since mathematics is a process, I will be grading your workas well as the final answer. Therefore, you must show your work. Never leave a question Blank. We will have some take home and some inclass test. A question on a test will be worth total of 4 pts. - you can earn a 0 for a blank, 1 for some work, 2-3 work but not correct or complete, 4 – correct and neat

The following grading scale will be used to determine your final grade: 90-100% A ,80-89% B , 70-79% C , 60-69% D , Below 60% F

#### **Attendance Policy**

Students are expected to attend ALL classes. Attendance will be reported to parents on interims and grade repots. In the event of five(5) or more absences in a marking period, a parent conference will be requested.

#### **Other Electronic Devices:**

Cell phones need to be off during class and out of sight. Texting will not be allowed during class time. Electronic media players (e.g. PDA, iPod, MP3 players) are not allowed to be used during class time or tests. Students may not use computers (PC, MAC, laptop or handheld) at any time during the class period or tests unless permission is granted by instructor. All other electronic devices not deemed appropriate by the instructor will not be allowed during class time. If a student violates the policy the first time the device will be taken and returned at the end of class and parents will be notified. The second offense will result in the cell phone being help after the second day of school. Additional violations will be sent to the home school as a third offense and actions will be determined by the school policy of cell phone use.

#### **New Honor Policy**

Please read the honor policy and understand that it WILL be adhered too.

Please write the pledge on any assignment that will be taken for a grade. → I pledge that I have neither received nor given assistance on this work.

# Please read the handbook for any additional information

**Learning Sequence** Will be handed out at the beginning of each Unit.Please keep in in your notebook before that set of assignments. It will be on colored paper so it will be used as a divider.