**Georgia Highlands College**

**Course Syllabus ̶ Math 0999, College Algebra**

**Fall Semester 2018**

**Course:**        MATH 0999, Support for College Algebra, 2 hours

                    CRN 80162, MW 8:30 am - 9:20 am, Room W-304

**Course Description:** This course is a supplement to MATH 1111 and designed as a support to students taking College Algebra concurrently. Topics covered will be prerequisites to MATH 1111 taken on an as needed basis and embedded into College Algebra material. Topics may include real and imaginary numbers, exponents, polynomials, equation solving, factoring, inequalities, quadratic equations, rational expressions and roots.

Attendance in MATH 1111 is mandatory.

**Prerequisites:** Satisfactory placement scores for MATH 0999 or successful completion of MATH 0989.

**Co-requisite:** MATH 1111

**Instructor:**    Kelly Shane

**Office:**          Office W-221, Floyd Campus

**Office Hours:** (Please note that additional office hours are available after class and by appointment. Students are strongly encouraged to schedule a meeting with the instructor whenever necessary to discuss class policies or course material.)

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| --- | --- |
| **DAY** | **TIME** |
| M | 7:30 am – 8:15 am  11:00 am – 12:30 pm |
| T | 7:30 am – 8:45 am  11:00 am – 12:30 pm |
| W | 7:30 am – 8:15 am  11:00 am – 12:30 pm |
| R | 7:30 am – 8:45 am  11:00 am – 12:30 pm |

**Contact Information:**

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| --- | --- |
| Direct Number to Office | 706.368.7750 |
| E-mail Address | [kshane@highlands.edu](mailto:kshane@highlands.edu) **(Try email first.)** |
| Web Site Address | <http://www.highlands.edu/site/faculty-kelly-shane> |
| **Note: Instructor will not be using D2L system in this course** | |

**Textbook:**

*Algebra and Trigonometry,* 1st edition, Jay Abramson, OpenStax College, Rice University (accessible for free at <https://openstax.org/subjects/math>)

**Homework Program:**

WebAssign <http://www.webassign.com>

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| --- | --- | --- |
| Here are the class keys that students in each section will need to enroll themselves: | | |
| **Instructor** | **Section** | **Class Key** |
| Kelly Shane | MATH 0999, section 80162 | highlands 6079 5468 |

**Calculator Requirement:**

Each student taking this course needs access to a TI-83/TI-84 or equivalent graphing/scientific calculator.   Students will use their calculator while participating in class, taking exams, and completing homework exercises.   Please note that sharing calculators during graded assignments is not permitted. Other electronic devices may not be used during exams — usage of such devices will result in an automatic F on the exam.

**Course Content:**       Selected sections from chapters 2, 3, 4, 5 & 6.

**Grading Policies:**

* **Quizzes (50%)**
  + Eight quizzes will be given during the semester. Each quiz will count 100 points.
  + There will be no make-up quizzes.
* **WebAssign Homework (20%)**
  + Homework will be assigned every class from WebAssign.
  + Computer homework will be due the date of the next class meeting.
  + If a student cannot complete the homework on time, he or she can finish the assignment within a week using the automatic extension in WebAssign.
  + Students using the extension will lose 20% per day of credit to questions completed after the due date.
* **Notebook (10%)**
  + Students will be expected to show paper work from WebAssign in a notebook.
  + Notebook work will be due every class meeting at the beginning of class.
  + Notebook will not be accepted after class has begun.
  + It must be written in pencil.
  + Show steps or no credit will be given.
  + All graphs must be drawn on graph paper.
  + There will be allowances for one late notebook assignment over the course of the semester.
* **In Class Work (20%)**
  + There will be in class work each class meeting. This may vary day by day.

**Grading scale:**

* 90%<A<100%
* 80%<B<90%
* 70%<C<80%
* F<70%

**Students who simply quit attending class without officially withdrawing will receive a grade of F in the class.**

Additionally, students are encouraged to retain copies of all graded coursework returned during the semester.  The coursework will aid students in preparing for the final exam and will serve as evidence of academic performance throughout the semester.

**The instructor retains the prerogative of altering the above plans as circumstances dictate.**

**Academic Policies:**

**Last Day to Withdraw without Academic Penalty**: October 22

Students in MATH 0999 must withdraw from both MATH 0999 and MATH 1111.

Withdrawals after this date are subject to approval by the Vice President for Academic Affairs and will be issued only in cases of extreme emergency or hardship.

**Early Warning Program:** Georgia Highlands College requires that all faculty members report their students' progress throughout the course of the semester as part of the institution-wide Early Warning Program (EWP).  The objective of the program is to support academic success by reviewing early indicators of satisfactory student progress.  In accordance with EWP, faculty members provide the Registrar's Office with academic reports of each student enrolled in their course(s) at checkpoints staggered throughout the semester.  The following success factors are reported at their corresponding checkpoint:

* Week 2: Notification of Non-attendance
* Week 6: Satisfactory or Unsatisfactory Progress

**Student Learning Outcomes (SLOs):**

**Goal:** Students will interpret and apply mathematical information, concepts, and principles embedded in verbal, numerical, graphic, and symbolic representations.

**Student Learning Outcomes:**

* Students will be able to solve equations.
* Students will be able to solve inequalities.
* Students will be able to graph functions.
* Students will be able to interpret information presented graphically.
* Students will be able to express numbers appropriately in a variety of ways based on context.
* Students will be able to rewrite algebraic expressions appropriately in a variety of ways based on context.
* Students will be able to use set notation in context.
* Students will be able to calculate rates of change using multiple representations.
* Students will be able to interpret rates of change using multiple representations.
* Students will be able to model scenarios or data mathematically to solve
* quantitative problems.
* Students will be able to use technology appropriately.
* Students will be able to apply logical, mathematical reasoning.

These outcomes correspond to the student learning outcomes approved to support the general education goals related to mathematics.

**Topics Covered:** Remember that the purpose of this co-requisite course is to support students to success in MATH 1111. The course is not an end unto itself, and mastery of the content listed below is not the sole criteria for success in the course. Successful completion of MATH 1111 by students in the co-requisite course is the true measure of success. Therefore, coverage of the content listed below is not required, but rather suggested as a path to strengthen the foundational knowledge of students taking MATH 1111. Instructors should adjust the content covered on the needs of specific classes, emphasizing problematic topics in greater depth or skipping topics as necessary.

* Equations vs. Expressions
* Relations vs. Functions
* Interval notation
* Equations of lines and slope
* Transformations of graphs
* Exponent Rules
* Rational exponents and radicals
* Simplifying radicals
* Operations with radicals
* Operations with polynomials
* Rational expressions
* Determining domain restrictions
* Finding domain algebraically, focusing on the algebraic techniques required and the use of interval notation
* Types of inverses
* Composition of functions
* Pythagorean Theorem and its connection to:
* The equation of a circle
* The distance formula
* Factoring strategies
* Solving quadratic equations
* Simplifying rational expressions
* Operations with rational expressions
* Review operations with fractions
* The connection between exponents and logarithms
* The change of base formula for logarithms and its importance in graphing using technology
* Problem solving strategies

**Class Attendance & Make-up Exams:**

Students are **expected** to attend each and every scheduled class session. Since lectures begin promptly at the scheduled time, students are encouraged to avoid arriving late to class. Attendance will be reflected in students’ grades through homework grades.

**Students absent for a class will not be allowed to turn in late homework unless they contact the instructor BEFORE the missed class AND the instructor gives the student permission. Students must make arrangements PRIOR to the scheduled class.**

**There will be no make-up exams. If a student needs to miss an exam, they may discuss with the instructor the possibility of taking it BEFORE the exam date. No exams will be administrated after their given date, and students who do not show up will receive a zero on the exam.**

**An important note for students enrolled in both MATH 1111 and MATH 0999:**

Students enrolled in both MATH 1111 and MATH 0099 are expected to attend each and every class session of both courses. After three absences in the MATH 0999 co-requisite course, students may be referred to the dean of Mathematics. After three absences in the MATH 1111 course, students may be referred to the dean of Mathematics. In either case, after consulting with the appropriate academic dean, students may be withdrawn from their MATH 1111 course.

**Extended Absence Policy:**

“Students, who have circumstances that prevent them from continuing to attend classes over an extended period of time, sometimes request that the faculty member permit them to submit work in absentia to receive credit to complete the course. If the concurrent absences will constitute more than 15% of the class sessions for the term, then written permission from the Academic Dean is required before any course assignments can be completed while missing class.  The student must be in good academic standing in the course to make the request.  All approved coursework must be completed by the end of the semester in which the course was begun.”

**Academic Dishonesty:**

Cheating will not be tolerated in this class.  If the instructor suspects a student of cheating, the instructor will notify the student of the allegations outside of class.  The allegations will be referred to the Director of Student Life for appropriate action.  The procedures and penalties implemented both by the instructor and the Director of Student Life shall be in accordance with the college's Academic Integrity Policy.  The policy can be accessed on-line at

[http://www.highlands.edu/subwebs/academicaffairs/academicintegritypolicy.htm](http://www.floyd.edu/subwebs/academicaffairs/academicintegritypolicy.htm)

**Americans with Disabilities Act Compliance:**

If anyone in the class feels that he/she needs accommodation due to a disability, please feel free to discuss this with the instructor early in the term. Georgia Highlands College has resources available for students with certain disabilities. Accommodations may be made (such as providing materials in alternative formats, assuring physical access to classrooms or being sensitive to interaction difficulties that may be posed by communication and/or learning disabilities) through Student Support Services on all campuses. For more information please contact 706-368-7536.

**For guidance on HB280 Campus Carry, please visit** [**www.usg.edu/hb280**](http://www.usg.edu/hb280)**.**

**Special Note to Students Receiving Financial Aid:**

This message applies only to students receiving financial aid**:**  Federal regulations state that if a student did not attend classes and received failing grades, then the grades were not earned and financial aid needs to be reduced accordingly.  **Please be advised that any student receiving a 0.00 GPA will be required to prove that the 0.00 GPA was earned by attending classes or completing requirements for each class**.  Students who have earned at least one passing grade for the semester will not be affected by this regulation.  If a student has properly withdrawn from all classes, the student’s financial aid should be adjusted from the time they signed the withdrawal form.

**In Conclusion:**

If you have any questions, comments, or concerns during the semester, please feel free to contact me.