**Algebra II**

**Jannice Clark, Instructor**

**COURSE OUTCOME:**

 **Course Description:**

Algebra II is the study of functions and an extension of the concepts of Algebra I and many of the concepts of Geometry. In this course, students will learn about numbers, polynomials, inequalities, sequences and sums, and many types of functions. Students will gain a deeper understanding of mathematics, generate mathematical models, describe the attributes of functions, practice new skills, and apply learning using real world applications Satisfactory completion of this course prepares students for entry into Pre-Calculus or Advanced Algebra and Trigonometry. (Prerequisites: Algebra I and Geometry credit with a grade of “C” or better recommended.)

**Hyperlink to local curriculum, state standards, and/or competencies:**

For more information on the standards, please visit the following websites.

On a local level,

[***http://math.knoxschools.org/modules/groups/integrated\_home.phtml?gid=499087&sessionid=195ec063144d26167f64a21544bd5ebf***](http://math.knoxschools.org/modules/groups/integrated_home.phtml?gid=499087&sessionid=195ec063144d26167f64a21544bd5ebf)

On the state site,

[***http://www.tn.gov/education/ci/math/doc/MA\_3103.pdf***](https://ch1prd0202.outlook.com/owa/redir.aspx?C=0VAwIMXq_kmjfUh4Wr42AMy_yzEyH84IuJ96brvKPAdZ6BZOockgG6Oz5YH6l14UkkqjPXa9T9c.&URL=http%3a%2f%2fwww.tn.gov%2feducation%2fci%2fmath%2fdoc%2fMA_3103.pdf)

**INSTRUCTION:**

 **Topics:**

* Module 1: Sequences, Series, & Summations
* Module 2: Quadratic Functions
* Module 3: Quadratic Equations
* Module 4: Polynomial Functions & Equations
* Module 5: Rational Functions & Equations
* Module 6: Radical Functions & Equations
* Module 7: Exponential & Logarithmic Functions & Equations
* Module 8: Trigonometric Functions
* Module 9: Probability
* Module 10: The Design of Statistical Studies
* Module 11: Gathering Data, making Inferences, Justifying Conclusions

**General Pacing:** This is a self-paced course; learning is initiated and directed by the student in a way which is suitable to their own abilities and learning style and at a pace defined by the learner. This requires dedication and discipline; the learner has to want the knowledge, recognize the benefits of the learning, and be willing to put forth the effort.

Traditional pacing for this course can be found at:
[***http://math.knoxschools.org/modules/locker/files/get\_group\_file.phtml?gid=499087&fid=3928043&sessionid=9b9fba3e39277a7bfe20a52e714836a6***](http://math.knoxschools.org/modules/locker/files/get_group_file.phtml?gid=499087&fid=3928043&sessionid=9b9fba3e39277a7bfe20a52e714836a6)

**Materials Needed:** Students will need a three ring binder (1”), a set of dividers, notebook paper, graph paper and pencils. A TI-84 Plus calculator will be provided to use in class.

**Fees:** There is a $30.00 school fee per year.

**Resources: School-based:** *Algebra 2: Equations, Graphs, Applications*, Larson, et.al., McDougal Littel, 2004If you do not approve of a specific resource listed in this syllabus, please make your request to me in writing and an alternative assignment and/or materials will be provided. The request should include your name, the child’s name, the specific activity/materials in which you do not want your child to participate or to which you do not want them exposed, and the nature of your objection.

**ASSESSMENT:**

**Expectations:** Students are expected to respect themselves, others, and the learning environment; they are not to make anyone’s life more difficult.

**Grading Policy/Rubrics:** Students will be required to read each chapter, define all vocabulary words, complete all of the assigned problems, and take a chapter exam. The vocabulary and assigned problems will be worth 100 points and are due before the student takes the chapter exam. The chapter exam will be worth 200 points. All work will be completed in pencil.

***Course Grade*** = (total points earned divided by total number of possible points) times 100.

An End of Course (EOC) exam will be administered at the end of the course and will account for 25% of the final grade.

***Final Grade*** = .75 times Course Grade + .25 times End of Course exam grade

***Knox County’s Grading Scale*** is as follows:

A 93-100 B 85-92 C 75-84 D 70-74 F Below 70

**Explanation of Assignments & Projects-Expectations/Timeline/Due Dates, etc.: Make-Up Work Policy/Late Policy** Since this course is self-paced, there are no timelines, due dates, make-up or late policies. **S**tudents should set self-imposed, slightly fluid deadlines in order to meet their personal graduation requirements.

**Portal Post Policy** Due to the fact that our program is self-paced and students are beginning and ending courses at vastly different times, grades are not posed on the parent portal. To check on your child’s progress, do not hesitate to leave me a message at 865.525.0069 or contact me via email at jannice.clark@knoxschools.org.

**GENERAL EXPECTATIONS**:

**Students**: **Attendance Policy S**tudents are expected to be on time and in attendance daily to maximize learning. Please refer to page 5 of the school’s handbook for a more detailed description of the attendance policy. To view Knox County Schools’ Attendance Policy, visit *http://attendance.knoxschools.org/modules/groups/integrated\_home.phtml?gid=513152&sessionid=becf6cb59ba388d14935ececf36b00e0*

**Classrroom Policy/Procedures:** Respect classroom materials and furniture. Be present, prepared, and participate in class every day. Do not interfere with others’ academic progress All work must be completed in class. Keep all definitions and completed problems in a three ring binder with chapters separated by dividers. . Ask for help if you do not understand a concept. Calculators are available for use during class.

**Honor Code:** Honesty, integrity, responsibility, and mutual respect are the keys to true learning. The purpose of the Dr. Paul L. Kelley Volunteer Academy is to promote a community of trust that will support student achievement. Students who accept responsibility for creating a climate of academic integrity will benefit for a life time. Our students are required to adhere to specific standards of conduct in academic affairs and are expected to conduct themselves honorably in pursuit of their education. Cheating, plagiarism, and fraud violate ethical codes of conduct and will not be accepted.

**PLAGARISM**

**According to Harbrace Handbook, 15th edition:**

**“Plagiarism is defined as presenting someone else’s ideas, research, or opinion as your own without proper documentation, even if it has been rephrased.  It includes, but is not limited to the following:**

**1.      Copying verbatim all or part of another’s written work;**

**2.      Using phrases, figures, or illustrations without citing the source;**

**3.      Paraphrasing ideas, conclusions, or research without citing the source;**

**4.      Using all or part of a literary plot, poem, or film without attributing the work to its creator.”**

**CONSEQUENCES OF PLAGIARISM**

**Plagiarism is a form of stealing and academic fraud.  Students who are found guilty of plagiarism will have the option of either redoing the assignment within a specified time period and accepting a grade letter drop or taking a zero on the assignment.  Parents should be involved in making the decision.**

**Teachers:** **Communication Strategy: Office Hours/Contact Information/Email:** I am available for parental conferences before and after school and by appointment. I can be reached at 865.525.0069 or via email at jannice.clark@knoxschools.org.

**School Fusion:** Due to the fact that our program is self-paced and students are beginning and ending courses at vastly different times, grades are not posed on the parent portal. To check on your child’s progress, do not hesitate to leave me a message at 865.525.0069 or contact me via email at jannice.clark@knoxschools.org.

**Intervention Strategy**: Students who struggle will be afforded opportunities for academic assistance and intervention. Tutorials are provided during class and before and after school by appointment