Course Syllabus

BASIC INFORMATION

Math for College Liberal Arts (MCLA)

Term and year: 2022-2023

Instructor's name: Morning, William L. IV

Office location: 14-103

Phone Number: (386) 734-7190 EXT. 76285

Email Address: wlmornin@volusia.k12.fl.us

COURSE OBJECTIVES

In Mathematics for College Liberal Arts, instructional time will emphasize five areas: (1) analyzing and applying linear and exponential functions within a real-world context; (2) utilizing geometric concepts to solve real-world problems; (3) extending understanding of probability theory; (4) representing and interpreting univariate and bivariate data and (5) developing understanding of logic and set theory. This course does not meet NCAA requirements.

Curricular content for all subjects must integrate critical-thinking, problem-solving, and workforce-literacy skills; communication, reading, and writing skills; mathematics skills; collaboration skills; contextual and applied-learning skills; technology-literacy skills; information and media-literacy skills; and civic-engagement skills.

MAJOR UNITS/TOPICS/THEMES:

- Sets and Logic
- Geometry
- Applications of Functions
- Probability
- Statistics

REQUIRED STUDENT RESOURCES

- Mathematical Excursions by CEngage

OTHER MATERIALS REQUIRED

- Pencils, personal calculator, notebook, laptop or tablet computer (if possible), graphing paper, and highlighters.
**GRADING**

**Weighted** Categories in the Gradebook will be set using the following calculation method:

- **Diagnostic** Assessments set at 0% and not counted in the grade calculation.
  - Diagnostic assessments may include, but are not limited to, homework and classwork.
- **Formative** Assessments count 40% of the total grade.
  - Formative Assessments may include, but are not limited to, Weekly Bell Work, quizzes, classwork, homework, projects, and formal assessments.
- **Summative** Assessments count 60% of the total grade.
  - Summative Assessments include, but are not limited to, Tests, District Interim Assessments, and Projects.

- **Teacher’s Authority to Override Final Grade:** A teacher may override the final grade if a student’s overall performance warrants it. Before the grade override is finalized, the teacher must notify the parent/guardian concerning the student’s performance if the override may result in a lower final grade. The teacher may issue a failing grade override based on the student’s overall performance only with the approval of the principal.
  - This refers to the final grade of the grading period, or the final grade for the course.
- Additional information of best practices for grading determined by Volusia County may be found at [http://myvolusiaschools.org/secondary-curriculum/Pages/Grading-Guidelines.aspx](http://myvolusiaschools.org/secondary-curriculum/Pages/Grading-Guidelines.aspx)

**LATE WORK POLICY:**

- Assigned work is expected to be completed on time. Late work will be marked down a letter grade for each day that it is late. After five (5) days, an assignment will no longer be accepted for credit unless given explicit permission.

**ABSENCE POLICY**

- Students are expected to be in class each day of the school year to be successful. Students will be allowed one (1) additional day for each absent day to make up any missed work. Students are responsible for any work missed due to absenteeism. Students are also responsible for requesting missed work.
- Chronic absenteeism may result in a failing grade for the course.

**CLASSROOM EXPECTATIONS** are in place to ensure a safe, orderly, and positive environment for everyone. It is important that students follow the expectations in class to avoid referrals for Administration discipline action.

THE BULLDOG WAY

2. Show up on time, every time.
3. Dude, be nice!
4. Know where to be.
5. Keep it clean.
6. Be better today than yesterday.

DISCIPLINARY ACTION

- Upon failing to comply with any of the classroom expectations, students will receive a verbal/written warning. Receiving 3 warnings in a given class period will result in the following consequences:
  - First Offense: Call home to parent
  - Second Offense+: Discipline referral

TEST REMEDIATION

- Each student is allowed to retake ONE (1) test each nine (9) weeks. Any other retakes may be allowed at the discretion of the instructor and given the student has appropriately remediated the necessary skills and completed all necessary work.

Enrollment in the courses listed is considered acceptance of the policies and procedures stated in the syllabus. The instructor reserves the right to make changes to policies and procedures for any purposes.
<table>
<thead>
<tr>
<th>Days</th>
<th>Instructional Dates</th>
<th>Unit Benchmarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Aug 15 – Aug 16</td>
<td>Building Community within the Math Classroom</td>
</tr>
<tr>
<td>36</td>
<td>Aug 17 – Oct 7</td>
<td><strong>Unit 1: Sets and Logic</strong>&lt;br&gt;Chapter 1 – Section 1&lt;br&gt;MA.912.LT.4.10&lt;br&gt;Chapter 2 – Sections 1, 2, 3&lt;br&gt;MA.912.LT.5.1, MA.912.LT.5.5, MA.912.LT.5.6&lt;br&gt;Chapter 3 – Sections 1, 2, 3, 4, 6&lt;br&gt;MA.912.LT.4.1, MA.912.LT.4.2, MA.912.LT.4.3, MA.912.LT.4.4, MA.912.LT.4.5, MA.912.LT.4.9, MA.912.LT.4.10</td>
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<td>42</td>
<td>Oct 10 – Dec 16</td>
<td><strong>Unit 2: Geometry</strong>&lt;br&gt;Chapter 7 – Section 2&lt;br&gt;Chapter 9 – Section 2&lt;br&gt;Chapter 7 – Section 4, X, 6, 3, 5&lt;br&gt;MA.912.GR.1.6, MA.912.GR.4.3, MA.912.GR.4.4, , MA.912.GR.4.5, MA.912.GR.4.6, MA.912.T.1.2</td>
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<tr>
<td>42</td>
<td>Jan 3 – Mar 3</td>
<td><strong>Unit 3: Applications of Functions</strong>&lt;br&gt;Chapter 9 – Section 1&lt;br&gt;MA.912.AR.2.5, MA.912.F.1.6&lt;br&gt;Chapter 10 – Sections 1, 2, 3, 4, 5&lt;br&gt;MA.912.AR.2.5, MA.912.AR.5.3, MA.912.AR.5.4, MA.912.AR.5.5, MA.912.AR.5.6, MA.912.F.1.6, MA.912.GR.4.3&lt;br&gt;Chapter 11 – Sections 1, 2&lt;br&gt;MA.912.FL.3.1, MA.912.FL.3.2, MA.912.FL.3.4</td>
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<td>22</td>
<td>Mar 6 – Apr 12</td>
<td><strong>Unit 4: Probability</strong>&lt;br&gt;Chapter 12 – Sections 1, 2, 3, 4, 5&lt;br&gt;MA.912.DP.4.1, MA.912.DP.4.2, MA.912.DP.4.3, MA.912.DP.4.4, MA.912.DP.4.6, MA.912.DP.4.7, MA.912.DP.4.8, MA.912.DP.4.9, MA.912.DP.4.10</td>
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<td>22</td>
<td>Apr 13 – May 12</td>
<td><strong>Unit 5: Statistics</strong>&lt;br&gt;Chapter 13 – Section 1, 2, 3, 5&lt;br&gt;MA.912.DP.1.1, MA.912.DP.1.2, MA.912.DP.2.1, MA.DP.2.4, MA.912.F.1.8</td>
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<tr>
<td>14</td>
<td>May 15 – Jun 2</td>
<td>Final Review &amp; Final Assessment</td>
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</table>

VCS Math for College Liberal Arts Map & Planning Guide 22-23

Florida’s B.E.S.T. Standards
Course Syllabus

BASIC INFORMATION

Algebra 2/Algebra 2H

Term and year: 2022-2023

Instructor's name: Morning, William L. IV

Office location: 14-103

Phone Number: (386) 734-7190 EXT. 76285

Email Address: wlmornin@volusia.k12.fl.us

COURSE OBJECTIVES

Algebra 2 is designed to continue the study of algebra and to provide the foundation for applying these skills to other mathematical and scientific fields. The content will include: structure and properties of the complex number system; sequences and series; relations; functions and graphs; varied solution strategies for linear equations, inequalities, and systems of equations and inequalities; quadratic, exponential, and logarithmic functions, and their applications; Calculators and computers will serve as instructional tools in concept development. Honors is weights +.5

MAJOR UNITS/TOPICS/THEMES:

- Linear Functions
- Quadratic Functions
- Polynomial Functions
- Radical Functions
- Exponential and Logarithmic Functions
- Rational Functions
- Statistics and Probability

In Algebra 2 & Algebra 2 Honors, instructional time will emphasize five areas:
(1) developing understanding of the complex number system, including complex numbers as roots of polynomial equations;
(2) extending arithmetic operations with algebraic expressions to include polynomial division, radical and rational expressions;
(3) graphing and analyzing functions including polynomials, absolute value, radical, rational, exponential and logarithmic;
(4) extending systems of equations and inequalities to include non-linear expressions;
(5) building functions using compositions, inverses and transformations and
(6) developing understanding of probability concepts. (HONORS ONLY)

Curricular content for all subjects must integrate critical-thinking, problem-solving, and workforce-literacy skills; communication, reading, and writing skills; mathematics skills; collaboration skills; contextual and
applied-learning skills; technology-literacy skills; information and media-literacy skills; and civic-engagement skills.

**REQUIRED STUDENT RESOURCES**

- B.E.S.T. Standards for Math Algebra 2 by Ron Larson and Laurie Boswell

**OTHER MATERIALS REQUIRED**

- Pencils, personal calculator, notebook, laptop or tablet computer (if possible), graphing paper, and highlighters.

**GRADING**

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ENROLLMENT IN THE COURSES LISTED IS CONSIDERED ACCEPTANCE OF THE POLICIES AND PROCEDURES STATED IN THE SYLLABUS. THE INSTRUCTOR RESERVES THE RIGHT TO MAKE CHANGES TO POLICIES AND PROCEDURES FOR ANY PURPOSES.
# Algebra 2 Instructional and Assessment Timeline

<table>
<thead>
<tr>
<th>Days</th>
<th>Instructional Dates</th>
<th>Chapter Benchmarks</th>
<th>Suggested Assessments from Big Ideas Online Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Aug 15 – Aug 19</td>
<td><strong>Building Community within the Math Classroom &amp; Pre-Course Test</strong></td>
<td>Pre-Course Test</td>
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<tr>
<td>21</td>
<td>Aug 22 – Sep 21</td>
<td><strong>Chapter 1: Functions and Transformations</strong>&lt;br&gt;MA.912.AR.4.2, MA.912.AR.4.4, MA.912.F.1.1, MA.912.F.1.7, MA.912.F.2.2, MA.912.F.2.3, MA.912.F.2.5</td>
<td>Benchmark Assessment #1 (Chapters 1 – 2)</td>
</tr>
<tr>
<td>17</td>
<td>Sep 22 – Oct 14</td>
<td><strong>Chapter 2: Quadratic Functions</strong>&lt;br&gt;MA.912.AR.3.4, MA.912.AR.3.8, MA.912.F.1.1, MA.912.F.1.7, MA.912.F.2.2, MA.912.F.2.3, MA.912.F.2.5, MA.912.DP.2.8</td>
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<tr>
<td>5</td>
<td>Dec 12 – Dec 16</td>
<td><strong>Review and Mid-Term Assessment</strong></td>
<td></td>
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<td>26</td>
<td>Jan 3 – Feb 8</td>
<td><strong>Chapter 4: Polynomial Functions</strong>&lt;br&gt;MA.912.AR.1.3, MA.912.AR.1.5, MA.912.AR.1.6, MA.912.AR.1.8, MA.912.AR.6.1, MA.912.AR.6.5, MA.912.F.1.1, MA.912.F.1.9, MA.912.F.2.2, MA.912.F.2.3, MA.912.F.2.5</td>
<td>Benchmark Assessment #2 (Chapters 1 – 4)</td>
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<tr>
<td>9</td>
<td>May 22 – Jun 2</td>
<td><strong>Final Review &amp; Assessment</strong></td>
<td>Post-Course Test</td>
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VCS Algebra 2 & Algebra 2 Honors Map & Planning Guide 22-23

Florida’s B.E.S.T. Standards
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<tr>
<td>12</td>
<td>Sep 8 – Sep 23</td>
<td>Chapter 2: Quadratic Functions</td>
<td>MA.912.AR.3.4, MA.912.AR.3.8, MA.912.F.1.1, MA.912.F.1.7, MA.912.F.2.2, MA.912.F.2.3, MA.912.F.2.5, MA.912.DP.2.8</td>
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<tr>
<td>18</td>
<td>Feb 13 – Mar 9</td>
<td>Chapter 7: Rational Functions</td>
<td>MA.912.AR.1.5, MA.912.AR.1.9, MA.912.AR.8.1, MA.912.AR.8.2, MA.912.AR.8.3, MA.912.F.1.1, MA.912.F.2.2, MA.912.F.2.3, MA.912.F.2.5</td>
<td>Benchmark Assessment #3 (Chapters 1 – 7)</td>
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<tr>
<td>9</td>
<td>Apr 3 – Apr 13</td>
<td>Chapter 9: Sequences (Honors Only)</td>
<td>*MA.912.AR.10.1, *MA.912.AR.10.2</td>
<td></td>
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<td>May 1 – Jun 2</td>
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