



**SUBJECT: Algebra II**

**GRADE LEVEL: 10**

**SCHOOL YEAR: 2022-23**

**TEACHER: Mr. Michael Hoffmann**

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**COURSE DESCRIPTION:**

The course expands the mathematical content and concepts of algebra I and geometry. Students who master algebra II will gain experience with algebraic solutions of problems in various content areas, including the basic concepts of algebra, inequalities and proof, linear equations and functions, products and factors of polynomials, rational expressions, irrational and complex numbers, sequence and series, and analytic geometry.

**ASSESSMENT:**

- Tests and Quarterly Exams are announced in advance. Pop Quizzes are unannounced and can be given at any time during the class therefore students must come to class prepared. ALL Tests, Exams and Quizzes may be cumulative so students are responsible for staying current with previous lessons learned.
- Homework and classwork are graded based on level of completion and by due dates. Students are responsible for checking an assignment's due date which will be posted on our Google Classroom. Students are expected to be prepared to turn-in work by the due date during class time even if the Teacher has not given a verbal reminder. Any missing, incomplete or late work suffers a 10% deduction after 1 day and an additional 20% deduction after 2 days. Students MUST submit "Mark as Done" in Google Classroom for each assignment posted. Not submitting "Done" means the assignment is Incomplete and will suffer a 10% penalty. No late work is accepted after 3 days past the due date. Students who are absent are responsible for keeping up with the class by doing the work assigned.
- Students who miss a scheduled Test or Quarterly Exam must make-up the exam on return at the earliest. If the student does not make-up the exam at the earliest on return, then a percentage may be deducted from the exam score. The make-up test/exam will be different and more challenging than the originally scheduled test/exam. Student grades are assessed in the following way:

1. Tests and Pop Quizzes	30%
2. Homework/Classwork/Seatwork /Projects	30%
3. Quarterly Exam	30%
4. Department	<u>10%</u>
<b>Total Grade</b>	<b>100%</b>

### **Grading:**

- Warm Up Questions 1 point
- Weekly Homework 2-18 points (2 points per assignment)
- Quiz 8-50 points (most quizzes are 10 points each)
- Test 100 points
- Activity/Project 5-80 points

### **MATERIALS:**

- Notebook for note taking and in-class practice – Graph paper notebook (A4)
- Blue/black pen or pencil for working on paper ruler
- Folder for worksheets, quizzes, and tests
- **School approved calculator Ti-nspireCX or regular calculator**

### **Classroom Expectations:**

- **Responsibility** - Being in control of your own behavior & having your work finished on time
- **Consideration** - Treating others the way you want to be treated & showing kindness and respect
- **Honesty** - Being truthful to others and yourself & doing what is right regardless of who is around

### **CLASSROOM AND HOMEWORK RULES:**

- Be punctual in attendance.
- No swearing at or teasing each other any time.
- Always be ready for class (i.e., be prepared with necessary materials).
- **Cheating on tests and homework is strictly forbidden.**
- Always present the assignment neatly and clearly. Show all the solution steps when answering questions.
- **Late homework will be graded by taking proportional deductions (10 % deduction per day).** Students who are absent with good reason will be allowed to make up the missing work.

### **PRIMARY TEXTBOOK & OTHER RESOURCES**

**Algebra 2 – Larson & Boswell**

**ISBN-13 9781644328668**

**Published: Jan 1<sup>st</sup>, 2021**

**Additional Homework source : CK 12 Foundation**

[www.ck12.org](http://www.ck12.org)

### **ADDITIONAL INFORMATION**

**St. Peter of Verona**

Google Classroom Code: Pending

**St Albert the Great**

Google Classroom Code: Pending

(NB: Depending on time and interest, the teacher may delete and/or add other selections.)

Week / Date	Topic / Projects / Assessments
<b>Week 1</b> <b>Aug 10<sup>th</sup> to 12<sup>th</sup></b> <b>3 Days of Class</b> <i>10~ First Day / Orientation Day</i>	<b>Wednesday</b> – Orientation in the morning. M/H School regular class after lunch <b>Thursday or Friday</b> – Diagnostic Assessment <b>Pre-requisite skills Review</b> <b>Diagnostic test and Review</b>
<b>Week 2</b> <b>Aug 15<sup>th</sup> to 19<sup>th</sup></b> <i>Opening Mass</i>	Ch 1 Opener Section 1.1* Section 1.2 + Quiz
<b>Week 3</b> <b>Aug 22<sup>nd</sup> to 26<sup>th</sup></b>	Section 1.3 Section 1.4 Chapter 1 Review* + Test*
<b>Week 4</b> <b>Aug 29<sup>th</sup> to Sep 2<sup>nd</sup></b>	Ch 2 Opener* Section 2.1 Section 2.2** + Quiz
<b>Week 5</b> <b>Sep 5<sup>th</sup> to 9<sup>th</sup></b> <b>4 Days of Class</b> <i>8~ Mass &amp; Birthday Mother Mary</i> <i>9<sup>th</sup> – Moon Festival</i>	Section 2.3 Section 2.4 Chapter Review* + Ch 2 Test
<b>Week 6</b> <b>Sep 12<sup>th</sup> to 16<sup>th</sup></b> <b>FYI – Pre-Exam Days</b>	Ch 3 Opener* Section 3.1** Section 3.2* + Quiz
<b>Week 7</b> <b>Sep 19<sup>th</sup> to 23<sup>rd</sup></b>	Section 3.3 Section 3.4** + Quiz Section 3.5
<b>Week 8</b> <b>Sep 26<sup>th</sup> to 30<sup>th</sup></b> <b>2 Days of Class</b> <i>28-30 ~Teacher's Conference</i>	Section 3.6 Chapter Review* + Ch 3 Test
<b>Week 9</b> <b>Oct 3<sup>rd</sup> to 7<sup>th</sup></b> <b>3 Days of Class</b> <i>6-7 ~Q1 Exams</i>	Cumulative Review – Exam preparation

## 2<sup>nd</sup> QUARTER – TENTATIVE COURSE CONTENT

(NB: Depending on time and interest, the teacher may delete and/or add other selections.)

Week / Date	Topic / Projects / Assessments
<b>Week 1 (10)</b> <b>Oct 10<sup>th</sup> to 14<sup>th</sup></b> <b>4 Days of Class</b> <i>10 – Double 10 Holiday</i>	Ch 4 Opener* Section 4.1 Section 4.2 + Quiz*
<b>Week 2 (11)</b> <b>Oct 17<sup>th</sup> to 21<sup>st</sup></b>	Section 4.3 Section 4.4 + Quiz* Section 4.5

<b>Week 3 (12)</b> <b>Oct 24<sup>th</sup> to 28<sup>th</sup></b> <i>25-27 – Book Fair</i> <i>28- Masquerade Night</i> <i>TBA-Holy Rosary Mass</i>	Section 4.6 + Quiz* Section 4.7 Section 4.8 + Quiz*
<b>Week 4 (13)</b> <b>Oct 31<sup>st</sup> to Nov 4<sup>th</sup></b> <i>1-All Saint's Day Mass</i>	Section 4.9 Chapter Review* + Ch 4 Test
<b>Week 5 (14)</b> <b>Nov 7<sup>th</sup> to 11<sup>th</sup></b>	Ch 5 Opener* Section 5.1* Section 5.2 + Quiz* Section 5.3
<b>Week 6 (15)</b> <b>Nov 14<sup>th</sup> to 18<sup>th</sup></b>	Section 5.4 + Quiz* Section 5.5* Section 5.6 + Quiz
<b>Week 7 (16)</b> <b>Nov 21<sup>st</sup> to 25<sup>th</sup></b> <i>25 - YSC Contest</i> <i>25-Gr.12 Q2 Exam</i>	Section 5.7** Chapter Review* + Ch 5 Test Ch 6 Opener* Section 6.1
<b>Week 8 (17)</b> <b>Nov 28<sup>th</sup> to Dec 2<sup>nd</sup></b> <b>FYI – Pre-Exam Days</b> <i>28-Gr.12 Q2 Exam</i>	Section 6.2 + Quiz* Section 6.3 Section 6.4 + Quiz*
<b>Week 9 (18)</b> <b>Dec 5<sup>th</sup> to 9<sup>th</sup></b> <i>8 - Foundation Day Celebrations</i>	Section 6.5 Section 6.6 + Quiz*
<b>Week 10 (19)</b> <b>Dec 12<sup>th</sup> to 16<sup>th</sup></b> <b>3 Days of Class</b> <i>15-16 ~Q2 Exams</i>	Section 6.7 Chapter Review* + Ch 6 Test
<b>Dec 19<sup>th</sup> to Jan 2<sup>nd</sup></b>	<b>Christmas Break</b>

### 3rd QUARTER – TENTATIVE COURSE CONTENT

*(NB: Depending on time and interest, the teacher may delete and/or add other selections.)*

<b>Week / Date</b>	<b>Topic / Projects / Assessments</b>
<b>Week 1 (20)</b> <b>Jan 5 to 6<sup>th</sup></b> <b>2 Days of Class</b>	Ch 7 Opener* Section 7.1
<b>Week 2 (21)</b> <b>Jan 9<sup>th</sup> to 13<sup>th</sup></b>	Section 7.2 + Quiz* Section 7.3 Section 7.4 + Quiz* Section 7.5
<b>Week 3 (22)</b> <b>Jan 16<sup>th</sup> to 20<sup>th</sup></b>	Chapter Review* + Ch 8 Test Ch 8 Opener* Section 8.1 Section 8.2 + Quiz*
<b>Jan 23<sup>rd</sup> to 27<sup>th</sup></b>	<b>Chinese New Year</b>

<b>Week 4 (23)</b> <b>Jan 30<sup>th</sup> to Feb 3<sup>rd</sup></b>	Section 8.3 Section 8.4 + Quiz* Section 8.5
<b>Week 5 (24)</b> <b>Feb 6<sup>th</sup> to 10<sup>th</sup></b>	Section 8.6** + Quiz* Section 8.7 Chapter Review* + Test
<b>Week 6 (25)</b> <b>Feb 13<sup>th</sup> to 17<sup>th</sup></b>	Ch 9 Opener* Section 9.1 Section 9.2* + Quiz*
<b>Week 7 (26)</b> <b>Feb 20<sup>th</sup> to 24<sup>th</sup></b> <i>20-24 ~ IOWA</i> <i>22 ~ Ash Wednesday Mass</i> <i>21-23 ~ Pre-Exam Days</i>	Section 9.3 Section 9.4* + Quiz* Section 9.5**
<b>Week 8 (27)</b> <b>Feb 27<sup>th</sup> to March 3<sup>rd</sup></b> <b>3 Days of Class</b> <i>27-28 ~ 228 Memorial Day Holiday</i>	Section 9.6* + Quiz* Chapter Review* + Test
<b>Week 9 (28)</b> <b>March 6<sup>th</sup> to 10<sup>th</sup></b> <b>4 Days of Class</b> <i>11 ~ Q3 Exams</i>	Cumulative Review + Exam Review

## 4th QUARTER – TENTATIVE COURSE CONTENT

*(NB: Depending on time and interest, the teacher may delete and/or add other selections.)*

Week / Date	Topic / Projects / Assessments
<b>Week 1 (29)</b> <b>March 13<sup>th</sup> to 17<sup>th</sup></b> <b>4 Days of Class</b> <i>13 ~ Q3 Exams</i> <i>14 ~ Q4 Begins</i>	Ch 10 Opener* Section 10.1 Section 10.2 + Quiz
<b>Week 2 (30)</b> <b>March 20<sup>th</sup> to 24<sup>th</sup></b> <i>20 ~ Fire Drill</i>	Section 10.3 Section 10.4** + Quiz* Section 10.5
<b>Week 3 (31)</b> <b>March 27<sup>th</sup> to 31<sup>st</sup></b>	Section 10.6 + Quiz Section 10.7 Section 10.8 + Quiz Chapter Review* + Test
<b>Apr 3<sup>rd</sup> to 14<sup>th</sup></b>	<b>Easter Break</b>
<b>Week 4 (33)</b> <b>Apr 17<sup>th</sup> to 21<sup>st</sup></b>	Chapter Opener* Section 11.1 Section 11.2 + Quiz* Section 11.3
<b>Week 5 (34)</b> <b>Apr 24<sup>th</sup> to 28<sup>th</sup></b> <i>24-28 ~ AP Mock Exams</i>	Section 11.4 + Quiz* Section 11.5** Chapter Review + Test

<b>Week 6 (35)</b> <b>May 1<sup>st</sup> to 5<sup>th</sup></b> <i>2-4~ Pre-Exam</i> <i>1-5~ Final Exams (K, 5, 8, 12 only)</i> <i>1-5 ~ AP Exams</i>	Ch 12 Opener* Section 12.1 Section 12.2 + Quiz*
<b>Week 7 (36)</b> <b>May 8<sup>th</sup> to 12<sup>th</sup></b> <i>8-12~ Final Exams(K, 5, 8, 12 only)</i> <i>1-5 ~ AP Exams</i>	Section 12.3** Section 12.4 + Quiz Chapter Review* + Test
<b>Week 8 (37)</b> <b>May 15<sup>th</sup> to 19<sup>th</sup></b> <b><u>3 Days of Class</u></b> <i>18-19~ Q4 Exams</i>	Cumulative review and Exam Preparation
<b>Week 9 (38)</b> <b>May 22<sup>nd</sup> to 26<sup>th</sup></b> <b><u>4 Days of Class</u></b> <i>22~ Record Day</i> <i>23-26 ~ Student Clearance</i>	TBA
<b>Week 10 (39)</b> <b>May 29<sup>th</sup> to June 2<sup>nd</sup></b> <b><u>4 Days of Class</u></b> <i>1 ~ Students Last Day</i> <i>2~ Teachers/Staff Meeting</i>	TBA

\* Indicates a 0.5 lessons, \*\* Indicates a 1.5 lessons