

## **SPRING 2023    MAC 1140 – PRECALCULUS ALGEBRA Real Time Virtual SYLLABUS**

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### **COURSE DESCRIPTION**

This class provides the Algebra preparation for the Calculus sequence. Topics include symbolic, graphical, and numerical analysis of polynomial, rational, power, exponential, and logarithm functions; matrices; sequences and series; conic sections; Binomial Theorem; and induction. A minimum grade of C is required if MAC 1140 is used to satisfy Gordon Rule and general education requirements. Prerequisite is College Algebra or equivalent.

### **CANVAS**

Canvas is Valencia College's online course environment. You can access it through Valencia's home page or by using this address <https://online.valenciacollege.edu/login/canvas>

In the Canvas area for this class you will find the syllabus, MyMathLab information/access/assignments, course announcements, class notes, discussions, videos, and your grades.

### **REQUIRED MATERIALS**

**MyMathLab Access:** MyMathLab (MML) is an online computer program containing a variety of resources based on the textbook entitled Precalculus, 4th edition by Ratti and McWaters. A physical copy of the textbook is not required since MML includes an electronic version. Most of the work that your grade is based on will be done in MML. An Access Code for MML may be purchased online.

**Calculator:** TI-84 or other graphing calculator is required for this course.

**Computer/Internet Access:** Since all work for this class will be done online, you are required to have access to a computer with an Internet connection.

## **GRADING**

Your Class Grade will be determined by your performance on assignments in the following categories: Homework (30%), Quizzes (30%), Midterm Exam (20%), Final Exam (20%).

### **Homework**

- Homework assignments are done in MML.
- There is a Homework assignment for each of the 24 sections the class covers.
- The number of problems in each assignment varies.
- You have an unlimited number of attempts for each homework problem.
- You are allowed to use any resources you'd like.
- There is no time limit and you can access the assignments as often as you'd like but each one has a deadline, which can be found in the syllabus, in Canvas, and in MML.
- Each assignment is scored out of 100 points. After the deadline, scores cannot be changed. A missed assignment results in a score of zero.
- The average of the 24 Homework assignment scores is your Homework Grade, which will count as 30% of your overall Class Grade.

### **Quizzes**

- Quizzes are done in MML.
- Each Quiz covers two sections of material for a total of 12 quizzes.
- Each Quiz has six questions from each section it covers for a total of 12 questions. The questions are based on the Homework assignments for each section.
- You get ONE attempt for each Quiz and there is a 75 minute time limit. Once you start a Quiz, you must complete it in the same session. When you leave the session (either by Submitting or even if the session is interrupted), whatever work you have done is what your score will be based on.
- You are allowed to use any resources you'd like EXCEPT for any form of help from another person. All work is required to be your own.
- Each Quiz has a deadline, which can be found in the syllabus, in Canvas, and in MML.
- Each Quiz is scored out of 100 points. After the deadline, scores cannot be changed. A missed Quiz results in a score of zero.
- The two lowest scored Quizzes will be dropped. The average of the other 10 Quiz scores is your Quiz Grade, which will count as 30% of your overall Class Grade.

## **Midterm and Final Exams**

- Exams are done in MML. The exact conditions are yet to be determined but may include some form of online proctoring.
- You may also be required to turn in your work and be able to explain how you did certain problems, and your work/explanations may count as part of your Exam score.
- The Midterm Exam covers the first 12 sections of material (2.1 through 7.2) and the Final Exam covers the last 12 sections of material (7.4 through 9.5).
- The Exam questions are based on Quiz questions from those sections.
- Each Exam must be taken during certain windows of time. The exact dates are to be determined.
- You get ONE attempt for each Exam and there is a 150 minute time limit. When you leave the session (either by Submitting or even if the session is interrupted), whatever work you have done is what your score will be based on.
- You are allowed to use any resources you'd like EXCEPT for any form of help from another person. All work is required to be your own.
- Each Exam is scored out of 100 points. A missed Exam results in a score of zero.
- Neither Exam will be dropped.
- The Midterm Exam counts as 20% of your overall Class Grade and the Final Exam counts as 20% of your overall Class Grade.

Your overall Class Grade is determined by this formula:

$$\text{CLASS GRADE} = (.30) * \text{Homework Grade} + (.30) * \text{Quiz Grade} + (.20) * \text{Midterm Exam Score} + (.20) * \text{Final Exam Score}$$

The result is rounded to the nearest whole number and you are assigned a letter grade based on this scale:

90-100 A, 80-89 B, 70-79 C, 60-69 D, below 60 F

## **ATTENDANCE**

There is a required attendance activity that must be completed during the first week of the semester in order to verify that you are a participant in this online class and that you understand your responsibilities. The details of the assignment can be found in Canvas. If the assignment is not completed you may be withdrawn from the course. No other form of attendance is a direct part of your grade. You are free to spend as much or as little time as you'd like learning the material and doing the assignments, within the framework of the deadlines. You are expected to attend our weekly Zoom meetings however there is no penalty for missing classes.

## **WITHDRAWING**

The last day to withdraw with a grade of W is Friday 3/24. After this deadline, you will not be able to withdraw. You will not be withdrawn by the instructor for any reason, with the exceptions of not doing the required attendance activity during the first week or as a possible consequence of cheating or disrupting the class.

## **CONDUCT**

Students are expected to behave maturely, respectfully, and honestly. You are encouraged to participate in online discussions (including Zoom meetings) where you can interact with fellow students and ask/answer questions. Be respectful and courteous in order to maintain a positive learning environment. Disruptive behavior may have consequences including being withdrawn from the class.

While you are allowed to use any resources you'd like (including help from other people) for Homework assignments, the work you do for Quizzes and Exams must be solely your own. Receiving any form of help from other people during a Quiz or Exam is considered cheating and if discovered will result in zero scores and possible further action according to Valencia College policy.

Students are expected to be aware of all class policies outlined in the syllabus and in Canvas.

## **RESOURCES**

If you have questions about anything, I am happy to help! You are welcome to send me an email or message through the Canvas Inbox. You can expect email responses within 24 hours during the week and 24-48 hours on the weekend. It will also be possible to set up Zoom meetings for live discussions.

There are also other resources available, including online tutoring (in Canvas) and the Office for Students with Disabilities (OSD). If you have any learning accommodations established by the OSD, let me know and provide the documentation as soon as possible.

## **DISCLAIMER**

The policies in this syllabus and the related course schedule may be changed at the discretion of the instructor. Any changes will be announced in Canvas and by email.

## SEMESTER SCHEDULE

This semester has 16 weeks. Each week begins on Monday and ends on Sunday. The following schedule suggests the pace at which you should learn the material and do the Homework/Quizzes.

<b>Week 1</b> <b>1/9 – 1/15</b>	<b>Orientation</b>
<b>DUE DATE</b> <b>Sunday 1/15</b> <b>11:59pm</b>	<b>Required attendance activity in Canvas</b>
<b>Week 2</b> <b>1/16 – 1/22</b>	<b>2.1, 2.2</b>
<b>Week 3</b> <b>1/23 – 1/29</b>	<b>2.3, 2.4</b>
<b>Week 4</b> <b>1/30 – 2/5</b>	<b>2.5, 2.6</b>
<b>DUE DATE</b> <b>Sunday 2/5</b> <b>11:59pm</b>	<b>Homework for sections 2.1, 2.2, 2.3, 2.4, 2.5, 2.6</b> <b>Quiz 1 on sections 2.1, 2.2</b> <b>Quiz 2 on sections 2.3, 2.4</b> <b>Quiz 3 on sections 2.5, 2.6</b>
<b>Week 5</b> <b>2/6 – 2/12</b>	<b>3.1, 3.2</b>
<b>Week 6</b> <b>2/13 – 2/19</b>	<b>3.3, 3.4</b>
<b>Week 7</b> <b>2/20 – 2/26</b>	<b>7.1, 7.2</b>
<b>DUE DATE</b> <b>Sunday 2/26</b> <b>11:59pm</b>	<b>Homework for sections 3.1, 3.2, 3.3, 3.4, 7.1, 7.2</b> <b>Quiz 4 on sections 3.1, 3.2</b> <b>Quiz 5 on sections 3.3, 3.4</b> <b>Quiz 6 on sections 7.1, 7.2</b>
<b>Week 8</b> <b>2/27 – 3/5</b>	<b>Midterm Exam will be available sometime this week. The exact days are to be determined.</b>

<b>Week 9</b> <b>3/6 – 3/12</b>	<b>7.4, 7.5</b>
<b>Week 10</b> <b>3/13 – 3/19</b>	<b>Spring Break</b>
<b>Week 11</b> <b>3/20 – 3/26</b>	<b>7.6, 7.7</b> <b>Note the withdrawal deadline is Friday 3/24</b>
<b>Week 12</b> <b>3/27 – 4/2</b>	<b>7.8, 8.2</b>
<b>DUE DATE</b> <b>Sunday 4/2</b> <b>11:59pm</b>	<b>Homework for sections 7.4, 7.5, 7.6, 7.7, 7.8, 8.2</b> <b>Quiz 7 on sections 7.4, 7.5</b> <b>Quiz 8 on sections 7.6, 7.7</b> <b>Quiz 9 on sections 7.8, 8.2</b>
<b>Week 13</b> <b>4/3 – 4/9</b>	<b>8.3, 8.4</b>
<b>Week 14</b> <b>4/10 – 4/16</b>	<b>9.1, 9.2</b>
<b>Week 15</b> <b>4/17 – 4/23</b>	<b>9.3, 9.5</b>
<b>DUE DATE</b> <b>Sunday 4/23</b> <b>11:59pm</b>	<b>Homework for sections 8.3, 8.4, 9.1, 9.2, 9.3, 9.5</b> <b>Quiz 10 on sections 8.3, 8.4</b> <b>Quiz 11 on sections 9.1, 9.2</b> <b>Quiz 12 on sections 9.3, 9.5</b>
<b>Week 16</b> <b>4/24 – 4/28</b>	<b>Final Exam will be available sometime this week. The exact days are to be determined.</b>