Professor: Ms. Sandra Draper, MA
E-mail address: sdraper2@mail.valenciacollege.edu
Office location: Zoom
Phone: (407) 582 – 1436

Course: MAC1105
CRN: 10203
Time: MW 10:30 am – 12:45 pm
Location: Zoom
Aleks course code: KQL6D - LAEXN

Student Engagement Hours in Zoom:
Monday: 2:30 pm – 3:30 pm
Tuesday: 2:30 pm – 3:30 pm
Wednesday: 2:30 pm – 3:30 pm
Thursday: 2:30 pm – 3:30 pm

Student Engagement Hours by Email:
sdraper2@mail.valenciacollege.edu
Monday 3:30 pm – 4:30 pm
Tuesday 3:30 pm – 4:30 pm
Thursday 3:30 pm – 4:30 pm
Other times available by appointment.

Course Description
Prerequisite: This course is based on the study of functions and their role in problem solving. Topics will include graphing linear functions, quadratic functions, exponential functions, and inverse functions. Students will be required to solve applied problems and communicate their findings effectively. Technology tools will be utilized in addition to analytical methods. A minimum grade of C is required to progress in mathematics or if MAC 1105 is used to meet the general education requirement in mathematics.

REQUIRED TEXTBOOK AND OTHER MATERIALS
1) ALEKS360 Access (by Mcgraw Hill) is required. The textbook is College Algebra, 2nd edition by Miller and Gerken. You may purchase the ALEKS360 code (www.aleks.com) from the bookstore or online. An e-text and author videos are included; thus a paper text is not required.
2) Calculator: A scientific or graphing calculator is required; you may choose.
3) Webcam: Since class meetings are in Zoom, you need a reliable device with a webcam so that you can participate in class.
Course Learning Outcomes
The student will be able to:

• display a knowledge of the fundamental concepts of algebra when determining characteristics and properties of relations and functions, and by performing processes involving these ideas.
• compare and contrast mathematical ideas (e.g., whether something is a function or not) by explaining the major characteristics of the concept(s) in question.
• solve and graph a variety of equations, functions, and inequalities both with traditional means and through appropriate technology.
• analyze situations involving application problems, design a means to solve the problem, and then present the steps to their solution.
• choose the most appropriate method for solving a problem that could be solved in different ways.
• illustrate multiple representations to solving problems (i.e., numerical & graphical).

Class Policies
Attendance
• Attend as many class meetings as you can. If you miss more than 3 class meetings, you may be withdrawn from the class.
• If you miss class, be sure you get any information and/or assignments given. Then, get help to learn the material and make up the assignments. You are responsible for the material, even if you are not in class.
• To get the most from your class, plan to be in class on time and remain in class for the entire period.
• If you need to leave class early, discuss the matter with your instructor.

Homework
• Completion of topics in ALEKS on a consistent basis is crucial to your success in this course.
• ALEKS makes up 20% of your final grade.
• ALEKS objectives are due weekly.
• ALEKS deadlines are not extended.
• If you miss an ALEKS deadline, you will have to do the math topics before you can continue, so stay timely in your assignments.
• You are encouraged to seek assistance from the instructor or "Courtney and team" if you encounter difficulties with the assigned problems. You may also visit the online math tutoring.

Testing
• Complete each test within the time allotted during the class period.
• There are no dropped tests; every test score will be used to figure your grade.
• If you know you will miss a test, make a timely request for an excused absence; be sure that you communicate with the instructor. If you do not request an excused absence for a missed test, or your request for an excused absence is denied by the instructor, you will receive 25 points off the final grade of that test. If you do not take the test in a timely manner, you will receive a zero for that test.
• During your test, you may only use a real calculator, not an app or other electronic device.
• Do not have other materials out during your test.

Final Exam
• The final exam is scheduled for Monday, December 7th.
• Do not plan to take the final exam at another time.
• If you do not take the final exam, it will result in an F in the class.
• During your final exam, you may use only a real calculator, not an app or other device.

Conduct
• Actively participate and ask pertinent questions during class. Be courteous.
• Avoid the use of cell phones and other devices that are audible.
• Create a good environment for learning; be respectful of others.
• Avoid being disruptive. If your actions in class are deemed by your instructor to be disruptive, you will be asked to leave class immediately. You may be permitted to return to future class meetings after consultation with your instructor outside of class.

Resources
• Ask questions in class and Ms Draper’s office hours. Ms Draper is interested in your success in this class!
• Form study groups with your classmates (in Zoom even). This practice is highly recommended.
• Visit Valencia College tutors: https://libguides.valenciacollege.edu/c.php?g=1014597&p=7351770
• Get help at from the course tutors. Use the Line app. (The Line app is a group chat app.)

<table>
<thead>
<tr>
<th>Course Grade Determination</th>
<th>Grading Scale:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component</td>
<td>Weight</td>
</tr>
<tr>
<td>Tests</td>
<td>60%</td>
</tr>
<tr>
<td>ALEKS</td>
<td>20%</td>
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<tr>
<td>Cumulative Final Exam</td>
<td>20%</td>
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E-mail Communication Policy
Check your Atlas e-mail daily. The instructor will communicate via Canvas or Atlas e-mail. Do not miss important information sent by the instructor. Please keep all e-mail respectful and professional.

Withdrawal
Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the withdrawal deadline of October 31st will receive a grade of “W.” A student is not permitted to withdraw after the withdrawal deadline.

Academic Honesty
Honesty and integrity reward you in many ways, including avoidance of the grade of zero that is assigned to any student who cheats on any test or assignment. Cheating is defined by any behavior that can be construed as cheating such as blatant cheating, looking at somebody’s paper, talking or whispering during a test, copying (including all take-home activities, examinations, and/or homework assignments), use of a cellular phone or other electronic device without prior permission, suspicious behavior, or failing to follow appropriate procedures for taking a test as prescribed by the instructor. Simply stated, cheating will not be tolerated.
<table>
<thead>
<tr>
<th>Week #</th>
<th>Month &amp; Day</th>
<th>Textbook Sections and Plans</th>
<th>Monday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 24</td>
<td>Welcome, Course Introduction, Intro to ALEKS, First Day Topics, Multiplying Polynomials (R.4)</td>
<td></td>
<td>Operations on Radicals (R.3), Complex Numbers (1.3), Factoring: GCF, Grouping, Trinomials, Special Products (R.5)</td>
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<tr>
<td>2</td>
<td>Aug 31</td>
<td>Factoring: GCF, Grouping, Trinomials, Special Products (R.5)</td>
<td></td>
<td>Sep 1</td>
</tr>
<tr>
<td>3</td>
<td>Sep 7</td>
<td><strong>NO CLASS: LABOR DAY</strong></td>
<td>Sep 9</td>
<td>Rational Expressions (Add, Subtract, Complex) (R.6), Solve Rational Equations (1.1)</td>
</tr>
<tr>
<td>4</td>
<td>Sep 14</td>
<td>Solve Quadratic Equations (1.4), Quadratic Applications (1.5)</td>
<td>Sep 16</td>
<td>Radical/Absolute Value Equations (1.6)</td>
</tr>
<tr>
<td>5</td>
<td>Sep 21</td>
<td><strong>Test Review, Exam 1</strong></td>
<td>Sep 23</td>
<td>HTL1, Linear, Compound and Absolute Value Inequalities (1.7)</td>
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<tr>
<td>6</td>
<td>Sep 28</td>
<td>HTL2, Distance and Midpoint (2.1), Completing the Square and Circles (2.2)</td>
<td>Sep 30</td>
<td>Functions and Relations (2.3A)</td>
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<tr>
<td>7</td>
<td>Oct 5</td>
<td>Functions and Relations (2.3B), Piecewise-Defined Functions (2.7)</td>
<td>Oct 7</td>
<td>Graphing, Lines, and Average Rate of Change (2.4)</td>
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<td>8</td>
<td>Oct 12</td>
<td><strong>Test Review, Exam 2</strong></td>
<td>Oct 14</td>
<td>HTL3, Applications of Lines (2.5), Symmetry, Even/Odd, Incr./Dec./Const, Min/Max (2.7)</td>
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<td>9</td>
<td>Oct 19</td>
<td>Library and Transformations (2.6)</td>
<td>Oct 21</td>
<td>HTL4, Combining and Composing Functions (2.8)</td>
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<tr>
<td>10</td>
<td>Oct 26</td>
<td>HTL5, Quadratics (3.1)</td>
<td>Oct 28</td>
<td>Polynomials (3.2), Variation (3.7)</td>
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<tr>
<td>11</td>
<td>Nov 2</td>
<td><strong>Test Review, Exam 3</strong></td>
<td>Nov 4</td>
<td>Inverse Functions (4.1)</td>
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<tr>
<td>12</td>
<td>Nov 9</td>
<td>HTL6, SFI, Exponential Functions (4.2)</td>
<td>Nov 11</td>
<td><strong>NO CLASS: VETERANS’ DAY</strong></td>
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<tr>
<td>13</td>
<td>Nov 16</td>
<td>HTL7, Logarithms (4.3), Rules of Logs (4.4)</td>
<td>Nov 18</td>
<td>Exponential and Log Equations (4.5)</td>
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<tr>
<td>14</td>
<td>Nov 23</td>
<td>Exponential and Logarithmic Models (4.6)</td>
<td>Nov 25</td>
<td><strong>NO CLASS: THANKSGIVING</strong></td>
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<tr>
<td>15</td>
<td>Nov 30</td>
<td><strong>Test Review, Exam 4</strong></td>
<td>Dec 2</td>
<td>Review for Final Exam</td>
</tr>
<tr>
<td>16</td>
<td>Dec 7</td>
<td><strong>Cumulative Final Exam</strong></td>
<td>Dec 9</td>
<td><strong>NO CLASS</strong></td>
</tr>
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**Important Dates**

Monday, September 7th is Labor Day, so there is no class.
Wednesday, November 11th is Veteran’s Day, so there is no class.
Wednesday (11/25) through Sunday (11/29) is Thanksgiving Break, so there is no class.
**Special Accommodations**

Students with disabilities who qualify for academic accommodations must provide a Notification to Instructor (NTI) from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities (WC SSB, Rm. 102, Ph: 407-582-1523, Fax: 407-582-1326, TTY: 407-582-1222).

**Student Resource for Assistance**

Valencia College is interested in making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. BayCare Behavioral Health Student Assistance Program (SAP) services are free to all Valencia students and available 24 hours a day by calling (800) 878-5470. Free face-to-face counseling is also available.

**Valencia Core Competencies**

Valencia Community College wants graduates to possess and demonstrate a set of global competencies including the ability to **THINK, COMMUNICATE, VALUE AND ACT**. In an effort to help you acquire and improve your ability to demonstrate the competencies this course will include activities that require you to:

1. Think clearly, critically and creatively.
2. Communicate with others in written and verbal form.
3. Make reasoned value judgments and responsible commitments.
4. Act purposefully, reflectively and responsibly.

*Changes in the syllabus, schedule, and/or assignments for this class may be made at the discretion of your instructor.*