MATH 1001 - Quantitative Skills and Reasoning

UWG Fall 2019

MW 12:30pm - 1:45pm   Pafford #306

Hours Credit: 3 hours  
Prerequisites: None

Note: This course satisfies Area A2 of the Core Curriculum.

COURSE INSTRUCTOR
Instructor: Irina Pashchenko  
Office: Library #311  
Email: ipashche@westga.edu

OFFICE HOURS:   MW 9:45 am-11:30 am, TTh 9:45 am-10:30 am  
in the Library #311

REQUIRED COURSE MATERIALS
PowerPoint presentations with all covered lessons are posted online in your CourseDen accounts. They correspond to the book *Thinking Mathematically, 6e, by Robert Blitzer (Pearson/Prentice Hall)* which is optional. You are required to have a MyOpenMath online account for your homework assignments. The instruction for creating an account is given on the last page.

NOTE
Graphing calculators equivalent to the TI 83, 84, 85, and 86 will be allowed on the exam, as will scientific calculators. The TI-89 and other equivalent calculators will not be allowed. A calculator, which is a part of your cell phone, iPod, or any other electronic devises, will not be allowed. You are not allowed to share a calculator with any other party in your class during any in class tests or exams unless permitted by your instructor. Your instructor’s personal recommendation is to use a scientific calculator for your tests and final exam as needed. Should you choose a a more advanced calculator, you are responsible for knowing how to use it.

Courses Description
This course is an alternative in Area A of the Core Curriculum and is not intended to supply sufficient algebraic background for students who intend to take Pre-calculus or the Calculus sequence for science majors. This course places quantitative skills and reasoning in the context of experiences that students will likely encounter. It emphasizes processing information in context from a variety of representations, understanding of both the information and the processing, and understanding which conclusions can be reasonably determined.
Learning Outcomes
Upon successful completion of this course students will demonstrate the ability to:
1. Interpret a wide variety of quantitative information
2. Use mathematical reasoning to analyze quantitative information, and use it to reach conclusions in real-world contexts.
3. Understand how mathematics and quantitative reasoning are an integral part of society and history
4. Process information and develop procedures for solving problems.
5. Use different units and formats of numbers including metric system and percentages.
6. Understand and deal with uncertainty in mathematics
7. Be able to interpret and calculate financial information including interest and loans.
8. Understand and interpret statistical results found in the media and society.

In addition, since this course satisfies Area A2 of the Core, upon successful completion of the course:
- Students demonstrate a strong foundation in college-level mathematical concepts and principles.
- Students demonstrate the ability to apply symbolic representations to model and solve real-world problems.

COURSE ASSESSMENT
Students’ mastery of course learning outcomes will be assessed using the following methods:

Homework
All homework assignments will be completed online through the MyOpenMath website. Be sure to understand all problems and be able to show all steps in the solutions if they are required. The Course ID is printed in the MyOpenMath instruction that is included at the end of the syllabus. Each homework assignment is due on the corresponding chapter exam day and will not be available afterward. After a particular assignment’s deadline has passed, I will NOT participate in any discussion (in person, or email) about the deadline.

Tests
There will be three in-class tests. All tests will be taken during the regular class time in the regular classroom. Books and notes will not be allowed on any tests. Each student may use one two-sided handwritten by himself (herself) page of notes for the tests. Missed tests will receive a grade of 0. The lowest test grade will be dropped. THERE WILL BE NO MAKE UPS. We will have a review session before each test. In addition, each practice test will be posted in your CourseDen accounts. One regular narrow green scantron form will be required for each test and the final exam. On test and exam days, students will be dismissed according to the schedule written on the board. Additional rules will be applied.

NOTE: No extra-credit assignments of any kinds will be offered during the course.

Final Exam
There will be a comprehensive final exam at the end of the semester given in the regular classroom. The exam will be given on Monday, Dec. 9 at 11:00am - 1:00pm in Pafford #306.
Class Participation
Each student will be credited with 25 participation points at the beginning of the semester, one for each class lecture. Two equally important parts will allow a student to keep his (her) point per class lecture. Regardless of your ability to understand the material, you are expected to be present for each class meeting. You are allowed to have no more than three unexcused absences for the course. After that, you will lose one point per each unexcused absence. An absence is considered to be excused if you had a serious reason for missing a class like admission to a hospital or a death in your family. An official document explaining your absence needs to be emailed to me. Moreover, regardless of how well you understand the material, you are expected to pay attention to every lesson presented by your teacher. Should you expect any important phone call, keep your phone on vibration. Then, step outside to receive your call if necessary.

There is a group of prohibited activities in class, which includes, but is not limited to receiving any phone calls or text messages, initiating phone calls or text messages, touching any electronic devises with your hands, keeping headphones or other electronic devises visible on any parts of your body or clothes, even if you believe that they are turned off. Once any of the prohibited activities occur, the student loses a participation point for that day. If a student who lost his (her) participation point continues behaving the same way during the same class, the student will be asked to leave.

Taking notes in class is recommended, but not mandatory. In order to keep a participation point for each lesson, a student is just expected to be in class and avoid using electronic devises.

ASSESSMENT GRADING:
MyOpenMath Homework 25%
Tests 45%
Final Exam 25%
Class Participation 5%

Grading Scale:
90% - 100%: A
80% - 89%: B
70% - 79%: C
60% - 69%: D
<60%: F

OTHER COURSE INFORMATION
It is the student’s responsibility to catch-up on any missed material. It is your responsibility to get notes from your classmates.
STUDENT CONDUCT
Students are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom. The following is also mandatory:

- Respect the rights, interests, and values of others
- Respect the professionalism of the instructor
- No talking to each other when the instructor is lecturing
- No packing your possessions before the lecture is over
- No walking in the classroom (unless you need to use a restroom)
- No sleeping or putting your head on your desk
- Watch your language
- Turn off ALL your electronic devices. This includes cell phones, CD players, etc.

Conduct that disrupts the classroom environment will not be tolerated.

COURSE POLICIES AND INFORMATION
University Policies and Academic Support
Please carefully review the following Common Language for all university course syllabi at the link:  [https://www.westga.edu/UWGSyllabusPolicies/](https://www.westga.edu/UWGSyllabusPolicies/)
It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

**Academic Honesty**
Any form of academic dishonesty will result in a failing grade for the assignment for the first offense (students will not be able to replace this grade). A second offense will result in a failing grade for the course. All forms of academic dishonesty will be reported and the student notified. Academic dishonesty is defined as a student's use of unauthorized assistance with intent to deceive an instructor or other such person who may be assigned to evaluate the student’s work in meeting course and degree requirements.
Definitions of academic dishonesty are also defined in the student handbook:  [www.westga.edu/handbook/](http://www.westga.edu/handbook/)

**Disabilities Act/Accessibility for the Course**
If you are a student whom is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content. Please contact UWG Accessibility Services for more information.

**Math Tutoring Center**
Located in Boyd 205, MTC has a number of computers and some math tutors who can help you in studying math courses.
## Class Schedule:

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<thead>
<tr>
<th>Date</th>
<th>Page</th>
<th>Topic</th>
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<td>08/14/19</td>
<td>1</td>
<td>INTRO</td>
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<tr>
<td>08/19/19</td>
<td>2</td>
<td>1.1/1.2 Inductive and Deductive Reasoning / Estimation, Graphs and Mathematical Models</td>
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<tr>
<td>08/21/19</td>
<td>3</td>
<td>2.1 Basic Set Concepts</td>
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<td>08/26/19</td>
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<td>2.2 Subsets</td>
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<td>08/28/19</td>
<td>5</td>
<td>2.3 Venn Diagrams and Set Operation</td>
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<tr>
<td>09/04/19</td>
<td>6</td>
<td>2.4 Set Operations and Venn Diagrams with Three Sets</td>
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<tr>
<td>09/09/19</td>
<td>7</td>
<td>2.5 Survey Problems</td>
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<tr>
<td>09/11/19</td>
<td>8</td>
<td>Review</td>
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<td>09/16/19</td>
<td>9</td>
<td><strong>TEST 1</strong></td>
</tr>
<tr>
<td>09/18/19</td>
<td>10</td>
<td>3.1 Statements, Negations, and Quantified Statements</td>
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<tr>
<td>09/23/19</td>
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<td>3.2 Compound Statements and Connectives</td>
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<td>09/25/19</td>
<td>12</td>
<td>3.3 Truth Tables for Negation, Conjunction, and Disjunction</td>
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<td>09/30/19</td>
<td>13</td>
<td>3.4 Truth Tables for the Conditional and the Biconditional</td>
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<tr>
<td>10/02/19</td>
<td>14</td>
<td>8.1 Percent, Sales Tax, and Discounts</td>
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<tr>
<td>10/07/19</td>
<td>15</td>
<td>8.3 Simple Interest</td>
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<tr>
<td>10/09/19</td>
<td>16</td>
<td>8.4 Compound Interest</td>
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<tr>
<td>10/14/19</td>
<td>17</td>
<td>Review</td>
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<tr>
<td>10/16/19</td>
<td>18</td>
<td><strong>TEST 2</strong></td>
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<tr>
<td>10/21/19</td>
<td>19</td>
<td>11.1 The Fundamental Counting Principle</td>
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<td>10/23/19</td>
<td>20</td>
<td>11.2/11.3 Permutations / Combinations</td>
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<td>10/28/19</td>
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<td>11.4 Fundamentals of Probability</td>
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<td>10/30/19</td>
<td>22</td>
<td>11.5 Probability with the Fundamental Counting Principle, Permutations, and Combinations</td>
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<tr>
<td>11/04/19</td>
<td>23</td>
<td>12.1 Sampling, Frequency Distributions, and Graphs</td>
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<td>11/06/19</td>
<td>24</td>
<td>12.2 Measures of Central Tendency</td>
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<td>11/11/19</td>
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<td>12.3 Measures of Dispersion</td>
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<td>11/13/19</td>
<td>26</td>
<td>12.4 The Normal Distribution</td>
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<td>11/18/19</td>
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<td>Review</td>
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<tr>
<td>11/20/19</td>
<td>28</td>
<td><strong>TEST 3</strong></td>
</tr>
<tr>
<td>12/02/19</td>
<td>29</td>
<td>Review</td>
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<tr>
<td>12/04/19</td>
<td>30</td>
<td>Review</td>
</tr>
<tr>
<td>12/09/19</td>
<td>31</td>
<td><strong>Final Exam</strong></td>
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<td><strong>11:00am - 1:00pm in Pafford #306</strong></td>
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**IMPORTANT DATES:**

**First Day of Class:**   Wednesday, August 14  
**Drop Ends:**           Tuesday, August 20  
**Last Day to Withdrawal with W:**  Wednesday, October 9  
**Last Day of Class:**   Friday, December 6  
**Final Exam Period:**   December 7-13 (see The Scoop for specific times)  
**No classes:**          Monday, September 2 (Labor Day)  
                         Thursday October 3 and Friday October 4 (Fall Break)  
                         Monday November 25- Friday November 29 (Thanksgiving)

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**How to register MyOpenMath**


Fill out the form. If you have any questions, please email me.

**For your course, you do the following:**

<table>
<thead>
<tr>
<th>Select the course you'd like to enroll in</th>
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<tbody>
<tr>
<td><strong>My teacher gave me a course ID (enter below)</strong></td>
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<tr>
<td><strong>Course ID:</strong> 52806</td>
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<tr>
<td><strong>Enrollment Key:</strong> pashchenko_52806</td>
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<tr>
<td><strong>Sign Up</strong></td>
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