

# ID 1050 Qualitative and Quantitative Reasoning Skills – Spring 2019

TueThu 10:50 AM -12:05 PM Centennial 203

## Course Syllabus

<p><b>Instructor:</b> Robert G. Gist <b>Office:</b> OCSE A-418 <b>Office Hours:</b> MonWed 12:30-1:30, TueThu 12:30-1:30 <b>UCCS e-mail:</b> <a href="mailto:rgist@uccs.edu">rgist@uccs.edu</a> <b>Web Site:</b> <a href="http://www.uccs.edu/~rgist">http://www.uccs.edu/~rgist</a> <b>Credit Hours:</b> 3 <b>Prerequisite:</b> None <b>Text:</b> <i>Reasoning Skills for Everyday Life</i>, 2<sup>nd</sup> edition, by James F. Burkhart ISBN: 9780536864819</p>	<p><b>Course Description:</b> Designed to bring incoming students up to a minimum competency in quantitative and qualitative skills. It includes such topics as logic, arithmetic, graphing, statistics, problem solving skills, and algebraic skills. The course is one of the means to satisfy the Qualitative and Quantitative Reasoning requirement.</p>
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**Attendance:** Attendance will not be monitored. It is each student's responsibility to cover any material due to missed lectures. Call 255-3346 for school closure information.

**Homework:** On occasions randomly chosen by the instructor, homework will be collected. Students who are physically present in the classroom at that time and who turn in their original work at that time will be given 5 extra points on the next exam. Homework turned in under any other circumstances will not qualify for this offer. This will happen once per unit (chapter).

**Exams:** Dates for exams are tentative, and may occur a week before or after the date indicated in the schedule. At least a week's notice will be given before the exam. There are no scheduled make-up exam times. Any missed exam must be arranged to be made up or it will result in a grade of zero. Graded exams will not be returned to students, but may be viewed in the Physics Department (ENGR 206) during regular school hours. Exams are closed book, but calculators will be allowed. Exam 4 will be administered on the day of finals, and will only cover the material from chapter 4.

**Grades:** In summary, your grade will be an average of the four exams:

The letter grade ranges are posted on my website. Ranges include +'s and -'s.

Exam #1	25%
Exam #2	25%
Exam #3	25%
Exam #4	25%

**Disabilities:** Students with disabilities should provide their letters of certification and accommodation within the first two weeks of class. Special accommodations for tests are required a week prior to the scheduled exam date.

**Calculators:** A calculator will be required for this course. It is strongly recommended that the student purchase a TI-30Xa from the bookstore. This will allow standardized instruction on its use. Other types of calculators will require the student's own familiarization with the device. Calculators will be allowed during exams.

**Questions, comments:** It is my hope that you will feel comfortable asking questions in class. Chances are that if you are unsure about some topic, there are others who have a similar question. I would like the class to be as interactive as possible. Out of respect for your classmates, please keep non-class oriented side discussions to a minimum.

**Academic Integrity:** All work performed for a grade in this class should strictly reflect your own understanding. Violation of the UCCS academic integrity may result in consequences ranging from a zero on the assignment up to failure of the course, depending on the particular situation.

**Cell phones, computers, classroom etiquette:** Please show proper etiquette by turning cell phones to silent mode and keeping conversation to a minimum during lecture. Please remain in the classroom unless an emergency arises, since foot traffic in the class can be disruptive to other students. Also, realize that using a computer/tablet during class could distract you and others; it's recommended that you sit toward the back or edge and restrict use to only note-taking.

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## Significant Dates

Date	Event	Note
Mar 25 – Mar 31	Spring Break	No class
Apr 5	Last day to drop through MyUCCS without instructor/dean approval	
May 14 (Tue)	Final Exam	10:20am to 12:20pm

## Schedule (subject to change)

Date		Topic	Section in Text	Exercise assigned
22-Jan	Tue	Snow Day		
24-Jan	Thu	Number line, operations, Real #s	Ch1 - Sec. 1-3	1, 2, & 3
29-Jan	Tue	Fractions; Powers of 10	Ch1 - Sec. 4	4
31-Jan	Thu	Positional notation, Abacus		
5-Feb	Tue	Theory of bases	Ch1 - Sec. 5	
7-Feb	Thu	Converting to/from other bases	Ch1 - Sec. 5	5
12-Feb	Tue	Review		
14-Feb	Thu	Exam #1		
19-Feb	Tue	Exponential Notation & Operations	Ch2 - Sec. 1-2	6
21-Feb	Thu	Properties, Factoring	Ch2 - Sec. 3	7,8
26-Feb	Tue	Graphing; Relations & Functions		9: 1-3
28-Feb	Thu	Functions and Inverses	Ch2 - Sec. 4-5	9: 4-11
5-Mar	Tue	Functions and Inverses	Ch2 - Sec. 6-9	10
7-Mar	Thu	Solving for the Unknown	Ch2 - Sec. 9-10	11 & 12
12-Mar	Tue	Solving for the Unknown	Ch2 - Sec. 9-10	11 & 12
14-Mar	Thu	Review		
19-Mar	Tue	Exam #2		
21-Mar	Thu	Overview & Graphing	Ch3 - Sec. 1	13
26-Mar	Tue	Spring Break		
28-Mar	Thu	Spring Break		
2-Apr	Tue	Statistics	Ch3 - Sec. 2 & 3	14 & 15
4-Apr	Thu	Normal Curve	Ch3 - Sec. 3	16
9-Apr	Tue	Normal Curve	Ch3 - Sec. 4	17
11-Apr	Thu	Standard Normal Curve	Ch3 - Sec. 5 & 6	18
16-Apr	Tue	Review		
18-Apr	Thu	Exam #3		
23-Apr	Tue	Arguments	Ch4 - Sec. 1	19 & 20
25-Apr	Thu	Fallacies	Ch4 - Sec. 2	21
30-Apr	Tue	Symbols, Truth Tables	Ch4 - Sec. 3	22
2-May	Thu	Truth Tables	Ch4 - Sec. 3	23 & 24
7-May	Tue	Valid & Invalid Arguments	Ch4 - Sec. 4	
9-May	Thu	Review		
14-May	Tue	Exam #4		

**This is a Quantitative Reasoning Course in the Compass Curriculum**

Quantitative Reasoning courses help students learn:

- How to construct a logical argument based on the rules of inference.
- Analyze and interpret numerical data.
- How to apply mathematical methods to solve problems in university work and daily life.

*Essential Learning Outcomes:*

- Gather, critically analyze and evaluate quantitative information within relevant disciplinary contexts.
- Demonstrate the core ethical principles and responsible methods of your discipline.

\* Any changes to dates of exams will be announced a week prior to administration.