## Course Title
Mathematics for Liberal Arts

## Course Number
MGF 1106 CRN 10285

## Prerequisites
MAT 1033 or PRTM 123

## Credit Hours
3

## Contact Hours
45

## Class Meeting Times
TR 12:00pm – 1:15pm in CS-1, Room 201

## Class Method
Traditional Face-To-Face Lecture

## Instructor
Dr. Raymond Holsapple  
raymond.holsapple@fkcc.edu  
Office Location: CS-1, Room 102-F  
Office Phone Number: 305-809-3154

## Office Hours
MW: 10:00am – 11:00am in Coral Shores; 4:00pm – 5:30pm in Marathon  
TR: 1:15pm – 2:15pm in Coral Shores; 4:30pm – 5:30pm in Coral Shores  
W: 9:00am – 10:00am in Coral Shores

## Course Description
This course is intended to familiarize the student with useful, realistic approaches to solving real-world problems. Applications are selected to best fit the needs and interests of the class. An introductory but relatively thorough look at linear programming, from a geometric point of view through computer-based models, is emphasized. The remaining portion provides the fundamentals of set theory, combinations and permutations, probability theory and other related topics.

## Course Objectives
The intent of this course is to introduce students to the beauty and utility of mathematics to the general student population. Upon completion of the course, the student will be able to demonstrate knowledge of the following topics:

1. Systematic Counting  
2. Probability  
3. Statistics  
4. Problem Solving & Critical Thinking  
5. Geometry  
6. Sets  
7. Logic  
8. Graph Theory
REQUIRED COURSE MATERIAL
- MyMathLab Student Stand Alone Access Kit

OPTIONAL TEXTBOOK
- Thinking Mathematically (6th Edition)

PUBLISHER
- Pearson

AUTHOR
- Robert Blitzer

ISBN
- 978-0-321-86732-2

NOTE
If you already have a MyMathLab account with Pearson, you do not need to purchase another one. To access this course on MyMathLab, simply engage the function that enrolls you in a new course using the Course ID holsapple91865. If you have never used MyMathLab before, follow the directions in the box below. Regardless of whether or not you have an access code, temporary access is free for 14 days.

Directions for Creating Your Pearson MyMathLab Account

2. Next click on “Student” under the “Register” heading at the right side of the screen.
3. You will be redirected to a page and asked to “Enter Your Course ID.” In the field marked “Course ID” enter holsapple91865. You will be redirected to a new page.
4. If you already have an account with Pearson, enter your “Username” and “Password.” Otherwise, you will need to follow the steps after clicking on “Create”.
5. After you complete step 4, you should be redirected to a screen which prompts you to use an access code, a credit card, PayPal, or register with temporary access. It is thus possible for each student to register for access on the first day of class. Once you have completed this step, you should be asked if you wish to go to the course, and the registration should be complete.

COURSE CONTENT

Chapter 1 – Problem Solving and Critical Thinking – Sections 1.1-1.3
Chapter 2 – Set Theory – Sections 2.1-2.3 & 2.4*
Chapter 3 – Logic – Sections 3.1-3.7
Chapter 10 – Geometry – Sections 10.1 – 10.4 & 10.6
Chapter 11 – Counting Methods & Probability Theory – Sections 11.1 – 11.7 & 11.8*
Chapter 12 – Statistics – Sections 12.1 – 12.4 & 12.5*
Chapter 14 – Graph Theory – Sections 14.1-14.3 & 14.4*
* We will cover these sections as time permits.

GRADING CRITERIA

- Quizzes and Class Participation: 10%
- Homework: 15%
- Midterm Exams 1-3: 45% (15% each)
- Final Exam: 30%

GRADING SCALE

I do not round off final averages.
- If your final average is ≥ 90, your grade will be an A.
- If your final average is ≥ 80 and < 90, your grade will be a B.
- If your final average is ≥ 70 and < 80, your grade will be a C.
- If your final average is ≥ 60 and < 70, your grade will be a D.
- If your final average is < 60, your grade will be an F.
**CLASS POLICIES**

**Attendance:** Class attendance is critical for your success in this course. As such, class attendance is mandatory. I will monitor student attendance and participation in educational activities on a regular basis. Students who do not regularly participate in class by submitting the assignments that are due each week, or are considered absent for **more than two weeks** during the semester, are subject to administrative withdrawal at any time without notice. An instructor may withdraw a student from courses for excessive absences and/or non-attendance up to the 70% point in the semester.

**Quizzes and Class Participation:** There will be five to ten IN-CLASS quizzes throughout the semester. Some quizzes will be scheduled in advance, and I will notify you about them in the prior class meeting. However, some quizzes will be given without notice. The quizzes will consist of one to three homework-level problems over the most recent course material which you have already had the opportunity to complete homework assignments on. There will be **no make-up quizzes.** A very small portion of your grade will be due to the subjective classification listed above as “Class Participation.” Class Participation takes on several forms. I consider attendance and punctuality to fall into this category. Excessive tardiness is rude and disruptive to the other students, to your instructor, and to the learning process itself. If you are excessively tardy or if you consistently disrupt class by leaving early, your Class Participation grade will suffer. If you regularly make no effort to pay attention in class, e.g., sleep, use cell phone, laptop, tablet, etc., your Class Participation grade will suffer. I will not ask students to go to the board and solve problems, but I do like to interact with the class and ask questions during the lecture about material we have already covered. I expect all students to participate in this classroom interaction.

**Homework:** To help you succeed in this course, you should do all of the MyMathLab homework assignments. Additionally, you should read the entire section in the textbook which covers the material for the lecture. Ideally, you should familiarize yourself with the section by skimming it prior to the lecture, and then read it thoroughly after the lecture. If this is not feasible due to time constraints, then you should at least read the section thoroughly after the lecture. I will notify you in class when a homework assignment will be posted on MyMathLab and when it is due. No homework assignment will be accepted past its MyMathLab due date. If you miss class and want to know what we covered while you were absent, you may email me and I will tell you the sections that we covered and what (if any) homework was assigned.

**Exams:** Three timed midterm exams will be conducted using MyMathLab. The schedule of and material on each of these exams will be determined as the semester progresses. I will give notification in class at least one week prior to each exam; however, if possible I will give a two week notice. As you complete a midterm exam, you are required to write out your solution process (show all your work) to each problem. These solutions should be turned into me at the next class meeting. The **Final Exam** will be **comprehensive**, and will be conducted IN-CLASS. Make-ups for all exams will be handled on a case-by-case basis. For a midterm exam, the following policy applies. If your absence is unexcused, you will get a zero on the exam. If you get the absence excused by me, I will offer you two options: (A) replace your zero with your score on the Final Exam, (B) take a make-up exam within seven days. If you choose option B, the exam will be different than the original exam and more challenging due to your increased amount of time to prepare for it. For the final exam, make-ups may be offered to students with emergencies, but only if they can provide acceptable documentation of the emergency.

**E-mail Communication:** All class e-mail communications should be conducted using your FKCC e-mail address. The primary responsibility for timely communication rests with YOU – THE STUDENT.
**Technology Usage:** You are welcome to use calculators to help you complete the MyMathLab homework assignments, but I implore you not to become dependent upon them. I will not allow calculators on quizzes or on the Final Exam. Since the three midterm exams will be conducted using MyMathLab, I cannot reliably ban their use on those exams. As such, you should not feel discouraged from using them to assist you with cumbersome arithmetic on the midterm exams. However, I must reiterate my warning above that you not grow to NEED the calculator, since they will not be allowed on the Final Exam. At no time during ANY exam may you use any computer program known as a computer algebra system (e.g., MATLAB, Mathematica, Maple) to assist you with solving problems. Additionally, you may not use a mobile device, desktop computer, laptop or tablet to search the internet for solutions to ANY exam problem.

**Classroom Decorum:** A positive learning experience depends upon respect among all members of this classroom community. Disregard or disrespect for the process, the group, or toward any individual will result in removal from the class and may result in being dropped from the course. This includes coming to class late or leaving class early, both of which are disruptive to the learning process. Using a mobile device, laptop, or tablet computer to talk, text, play a game, write an email, write a paper or whatever can be distracting to students near you and is almost always distracting to your instructor. As such, you may not use these devices during the lecture, and all mobile devices must be silenced.

**Academic Dishonesty:** Academic dishonesty will not be tolerated and will result in no credit for the assignment, test, or exam during which it occurs and possible notification to the Dean of Student Affairs and Accreditation.

**Special Needs:** If you have any special needs or requirements pertaining to this course, please discuss them with the instructor early in the term. If you have special needs as addressed by the Americans with Disabilities Act (ADA) and need assistance, please notify the Office for Students with Disabilities at 305-809-3504 via email at: karla.malsheimer@fkcc.edu or the course instructor immediately. Reasonable efforts will be made to accommodate your special needs.

**Sexual Predators:** Federal and State law requires a person designated as a “sexual predator or offender” to register with the Florida Department of Law Enforcement (FDLE). The FDLE then is required to notify the local law enforcement agency where the registrant resides, attends or is employed by an institution of higher learning. Information regarding sexual predators or offenders attending or employed by an institution of higher learning may be obtained from the local law enforcement agency with jurisdiction for the particular campus, by calling the FDLE hotline (1-888-FL-PREDATOR) or (1-888-357-7332), or by visiting the FDLE website at [www.fdle.state.fl.us/sexual_predators](http://www.fdle.state.fl.us/sexual_predators). If there are questions or concerns regarding personal safety, please contact the Campus Security Officer on your campus.

**Copyright Notice:** The materials and content provided in this course are intended only for registered Florida Keys Community College students who have paid their tuition and fees to attend this course. Materials that are affected include, but are not limited to, text, still images, audio recordings, video recordings, simulations, animations, diagrams, charts, and graphs. Every effort has been made to insure these materials are not disseminated to anyone beyond those who have legally registered for this course. Download, revision, or distribution of course material with anyone other than registered classmates and the instructor is strictly prohibited.

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POLICIES IN THIS SYLLABUS ARE SUBJECT TO CHANGE IF THE INSTRUCTOR DEEMS IT NECESSARY AND APPROPRIATE.

STUDENTS ARE EXPECTED TO FAMILIARIZE THEMSELVES WITH FKCC POLICIES, WHICH CAN BE FOUND IN THE CURRENT STUDENT HANDBOOK.