

**COLLEGE OF CENTRAL FLORIDA  
LIBERAL ARTS MATHEMATICS  
MGF1106**

**Fall - C (Aug. 15 – Dec. 8)**

**Section 05 – meets M and W 2:00 pm - 3:15 pm (7-111)  
Section 04 – meets T and Th 4:30 pm - 4:45 pm (7-110)  
Section 03 (Hybrid) – meets W 6:00 pm - 7:15 pm (7-111)**

**I. Course Information**

<b>Instructor Name:</b>	Dr. José A. Toro-Clarke		<b>Mathematics Building 2</b>	<b>Office 207</b>	<b>ext. 1202</b>
<b>e-mail:</b>	<a href="mailto:clarkej@cf.edu">clarkej@cf.edu</a>		<b>Telephone No.:</b>	<b>(787) 408-0515</b>	
<b>Office Hours</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
		11:00-4:15 pm	11:00-12:15 pm	12:30-4:15 pm	

**How the professor wants me to contact him (Dr. T)?**

Always through **CANVAS** inbox, never by email.

**Where can I find Dr. T's Course Materials?**

Also, everything you need will be in Modules in **CANVAS**: PowerPoint, Dr. T Pre-recorded Lectures, Study Plan (Homework/Quizzes), and Tests.

**Check Announcements Regularly!**

<b>2022</b>	<b>Fall Term</b>	<b>Comments</b>
Sept. 5 (M)	Labor Day	College Closed
Oct. 4 (T)	Faculty Prof Dev Day	No day classes, evening classes meet
Nov. 11 (F)	Veterans Day	College Closed
Nov. 23-27 (W-Sun)	Thanks Giving Break	College Closed
Dec. 2-8 (F-Th)	Final Exam Week	

<https://pr.cf.edu/files/admissions/Academic.Calendar.2022-2023.pdf>

Extended Emergency Closure

For emergency campus closings (natural disasters, etc.) call 352-291-4499 or 800-831-9244 or check our [website](#) (CF.edu).

**Things you need to know about the Textbook.**

We will not use the textbook. Do not purchase the textbook (unless you need a hard copy of the textbook). You must purchase the MyLab Stat Access code to enable you to complete your online assignments. You may purchase MyStatlab from the bookstore or online.

**THE PROFESSOR RESERVES THE RIGHT TO MAKE CHANGES.**

## II. Course Description

This course is designed for students whose majors do not require courses in Statistics, College Algebra or Pre-Calculus. MGF 1106 is not designed as a prerequisite for other mathematics courses. This course covers many mathematical skills including systematic counting and probability, statistics, geometry, sets and logic. Some topics related to the history of mathematics are also included in the course. This course counts toward the Gordon Rule mathematics requirement for the A.A. degree. Gordon Rule applies.

<b>Required Text – Title:</b>	Thinking Mathematically (LL)- W/MyLab Math	<b>Author of Text:</b>	BLITZER
<b>Edition:</b>	7th Ed.	<b>ISBN No.:</b>	9780135903575
<b>Required Materials:</b>	Scientific Calculator <b>(You cannot use the calculator on your phone for any exam!)</b>	<b>Optional Materials:</b>	Thinking Mathematically (LL)- W/MyLab Math

## III. Student Learning Outcomes

### Course-related Institutional Learning Outcomes & Assessment Methods *Liberal Arts Mathematics MGF1106*

Learning Outcome	Quiz	Exam	Classroom Activity
<b>Quantitative and Analytical Reasoning: The student will understand and apply mathematical and scientific principles and methods.</b>			
1. Perform accurate computations using order of operations with and without technology.	X	X	X
2. Identify and organize relevant information and complete the solution of an applied problem.	X	X	X
3. Interpret and communicate an understanding of visual representations of data.	X	X	X
4. Demonstrate mathematical number sense and unit sense.	X	X	X

## IV. Assessment

**Class Attendance:** This is a lecture-based course, so attending class is expected. Attendance carries no value towards the final grade. If a student fails to attend a lecture, the student will still be responsible for the material missed. However, you need to be registered in **MyLab Stat** before Friday, August 26, 2022, for your attendance to count (if you cannot afford it because you depend on the money of Financial Aid remember that **MyLab Math** has a **14-day Trial Version** period).

**Tests** Attendance is required for each test. **Make-up exams will not be given.** Life happens, so, if the student misses a test, the final exam grade will replace that test score. Even if it is a **GOOD** excuse, there will be **no make-up**. However, with prior approval, you can take the exams during a different section-time period. If the student misses 2 or more exams, zeros will be given. (**This does not apply to college-sponsored activities**). ALL grades count: in other words, the lowest grade is **NOT** dropped. **However, a zero representing a missed test OR a low-test score will be replaced by the final exam score.**

**Homework/Quizzes (Study Plan):** You will find the homework schedule and assignments online, and you will submit your homework online through Pearson **MyStatLab**. You will have up to each **partial test** (once you have taken the test that section will close. **No extensions, no MATTER WHAT!!!**)

If you do the Study Plan (Homework/Quizzes) problems, you will be well prepared for the tests, as these problems are closely aligned with the test questions. Further, the online tests and quizzes have strict requirements for the form in which an answer must be submitted. Practice with the homework and tutorial problems will guide you as to how to structure your solutions. The scores will be transferred manually to Canvas on weekly basis. You will get immediate feedback on your homework scores, and they will be posted in your online grade book. A missed homework assignment will be posted as a zero.

**Homework/Quizzes (Study Plan) will comprise 20% of your grade.**

You can attempt each HW/Q as many times as you need.

**Where to go in Canvas to find the coursework?**

The course is set up on a modular system and each **HOME** or **MODULE**.

**Proctoring:** Test will be administered by me in the classroom or **CF Testing Center** (contact me for this option).

<b>*Grade Example</b>				
<b>Assignments are weighted as follows:</b>	Weight System	Point System	Weight System	Point System
<b>Homework/Quizzes (Study Plan)</b>	<b>20%</b>	<b>200</b>	$0.2 * 85\% = 17.00\%$	$200 * 85\% = 170.0$
<b>3 Tests</b>	<b>51%</b>	<b>510</b>		
Test 1	17%	170	$0.17 * 70\% = 11.90\%$	$170 * 70\% = 119.0$
Test 2	17%	170	$0.17 * 79\% = 13.43\%$	$170 * 79\% = 134.3$
Test 3	17%	170	$0.17 * 85\% = 14.45\%$	$170 * 85\% = 144.5$
<b>Comprehensive Final Test</b>	<b>29%</b>	<b>290</b>	$0.29 * 90\% = 26.10\%$	$290 * 90\% = 261.0$
<b>Total</b>	<b>100%</b>	<b>1,000</b>	<b>82.22%</b>	$828.8 \div 1000 = 0.82$ so $0.82 * 100 = 83\%$

**\*Grade Example** will always have a minor discrepancy between the margins of error.

**Assignments are weighted as follows:**

<b>Homework/Quizzes (Study Plan)</b>	<b>20%</b>
<b>3 Tests</b>	<b>51%</b>
Test 1	17%
Test 2	17%
Test 3	17%
<b>Final Test</b>	<b>29%</b>

This is something some students tend to request at the end of the semester, before finals:

Dr. T could get some Extra Credit to be able to increase my grade.

**No**, the reason is there is extra credit already in place. The Study Plan and the discussion are plans already. The detail of the extra credit is detailed below.

**You can earn up to 55 points in extra credit:**

**Extra Credit Policy:**

1. Mandatory Reading (5 points for the Final Test):
  - My published article “*A Participative and Individualized laboratory: A Strategy for Increasing Students Success in College-Level Math Courses*” from the book “*The Mathematics Education for the Future Project*” Proceedings of the 15<sup>th</sup> International Conference “*Theory and Practice: An Interface or A Great Divide*” August 4-9, 2019, Maynooth University, Kildare, Ireland.
    - Once you read this write five sentences of your interpretation and opinion of why I do this (which needs to be related to my published article).
2. Do **Study Plans** (up to 10 points) for each Test (Prior to attempting the Tests, you can redo them after doing the Test for a better score). Need to accomplish a Mastery in the knowledge of **70% or higher**
  - You could earn between **7-10** points. They are 4 Tests (T1, T2, and T3) so you could earn between 28-40 points. If you earn **70%** you will earn **7** points, if is **84%** will be **8** points and if is **95%** will be **10** points. If you can't reach the minimum 70% mark after each Test (48 hours after the Test). Visits me during office hours. So, we can see what is going on; you could earn some extra points. To earn the **Extra Credit**, you need to do the Study Plan before attempting each Test. I will give you 48 hours to increase your extra credit score. I will contact you by email if you need to improve your scores after the Test.
3. Going to **Tutoring** (seeking help is a wise move) and taking and getting help from the Tutor in Math Lab up to 20 Points:
  - You could earn up to 5 points per Test (you need to register your assistance using your CF code). I will request the attendance weekly report (or per Test) from the Math Lab Coordinator.

**Grades:** The final grade will be calculated based upon your performance on tests (In Class), homework assignments (In MyMathLab), and the online quizzes (In MyMathLab). The following system will be used for the final grade:

**A: 90 – 100%**                      **B+: 89 – 87 %**                      **B: 80 – 86 %**                      **C+: 79 – 77%**  
**C: 70 – 76%**                      **D: 60 – 69%**                      **F: 0 – 59%**

**V. Course Schedule/Outline**

<b>MGF1106 Liberal Arts Mathematics Tentative Lecture Schedule</b>		
<b>Weeks</b>	<b>Topic</b>	<b>Sections Covered (Homework &amp; Quizzes)</b>
<b>Week 1</b>	Inductive and Deductive Reasoning	<b>Required-</b> Read my published article “ <i>A Participative and Individualized</i>

**MGF1106 Liberal Arts Mathematics  
Tentative Lecture Schedule**

<b>Weeks</b>	<b>Topic</b>	<b>Sections Covered (Homework &amp; Quizzes)</b>
		<p><i>laboratory: A Strategy for Increasing Students Success in College-Level Math Courses”</i></p> <p>See Extra Credit Policy for details-This can be found in Home or Modules in CANVAS</p> <p>1 hour</p> <p>Introduction, Syllabus &amp; <b>Chapter 1 (1.1)</b></p>
	Estimation, Graphs, and Mathematical Models; Problem Solving	1.2 & 1.3
<b>Week 2</b>	Basic Set Concepts	<b>Chapter 2 (2.1)</b>
	Subsets	2.2
<b>Week 3</b>	Venn Diagrams and Set Operations; Set Operations and Venn Diagrams with Three Sets	2.3 & 2.4
	Survey Problems	2.5
		<p><b>Homework</b></p> <p><b>**Study Plan Test 1 (Chapter 1-2)</b> Required a minimum of <b>70%</b> to receive extra credit for Test 1</p> <p>5 hours</p>
<b>Week 4</b>		<b>Test 1 review (Chapter 1 &amp; 2)</b>
	<b>MyMathLab Chapter 1-2 is closed</b>	<b>Test* 1 (Chapter 1 &amp; 2) 85 minutes</b>
	Statements, Negations, and Quantified Statements	<b>Chapter 3 (3.1)</b>
<b>Week 5</b>	Compound Statements and Connectives; Truth Tables for Negations, Conjunction, and Disjunction	3.2 & 3.3
	Truth Tables for the Conditional and Biconditional; Equivalent	3.4 & 3.5

**MGF1106 Liberal Arts Mathematics  
Tentative Lecture Schedule**

<b>Weeks</b>	<b>Topic</b>	<b>Sections Covered (Homework &amp; Quizzes)</b>
	Statements and Variations of Conditional Statements	
<b>Week 6</b>	Negations of Conditional Statements and De Morgan's Law; Arguments and Truth Tables	3.6 & 3.7
	Arguments and Euler Diagrams; Measuring Length and The Metric System	3.8 & <b>Chapter 9</b> (9.1)
<b>Week 7</b>	Measuring Area and Volume; Measuring Weight and Temperature	9.2 & 9.3  <b>Homework</b> <b>**Study Plan Test 2 (Chapter 3 &amp; 9)</b> Required a minimum of <b>70%</b> to receive extra credit for Test 2  5 hours
		<b>Test 2 review (Chapter 3 &amp; 9)</b>
<b>Week 8</b>	<b>MyMathLab Chapter 3 &amp; 9 is closed</b>	<b>Test* 2 (Chapter 3 &amp; 9)</b> 85 minutes
	Points, Lines, Planes and Angles; Triangles	<b>Chapter 10</b> (10.1 & 10.2)
<b>Week 9</b>	Polygons, Perimeter, and Tessellations; Area and Circumference	10.3 & 10.4
	Volume and Surface Area; The Fundamental Counting Principle	10.5 & <b>Chapter 11</b> (11.1)
<b>Week 10</b>	Permutations; Combinations	11.2 & 11.3
	Fundamentals of Probability	11.4
<b>Week 11</b>	Probability with the Fundamental Counting Principle, Permutations, and Combinations	11.5
<b>Week 12</b>	Events Involving Not and Or; Odds	11.6
	Events Involving And;	11.7

MGF1106 Liberal Arts Mathematics Tentative Lecture Schedule		
Weeks	Topic	Sections Covered (Homework & Quizzes)
	Conditional Probability	
<b>Week 13</b>	Expected Value	11.8  <b>Homework</b> <b>**Study Plan Test 3 (Chapter 10-11)</b> Required a minimum of <b>70%</b> to receive extra credit for Test 3  5 hours
		<b>Test 3 review (Chapter 10 &amp; 11)</b>
<b>Week 14</b>	<b>MyMathLab</b> <b>Chapter 10 &amp; 11 is closed</b>	<b>Test* 3 (Chapter 10 &amp; 11)</b> 85 minutes
<b>Week 15</b>		<b>Final Exam Review</b>  <b>Homework</b> <b>**Study Plan Final Test (Chapter 1-3 &amp; 9-11)</b> Required a minimum of <b>70%</b> to receive extra credit for Final Test  5 hours
<b>Week 16</b>		<b>Final Exam</b> <b>TBA</b> Dec. 2-8 (F-Th) <b>85 minutes</b>

**Test\*** – if missed you can replace the ZERO with the FINAL EXAM.

**\*\*Study Plan (SP)** – Once you do a Problem in the SP correct and fail to do so in the Test, MyMath Lab will reduce your points in the SP. So, do not do the minimum, because you could be able to earn no extra credit bonus points.

## Additional Tips

- Make sure your browser is up to date.
- Keep and/or print a copy of the course syllabus and schedule on your computer.
- Check the course and course email regularly.
- Questions about grades or other personal matters should be emailed to the facilitator(s).
- Set aside specific times each week to complete class activities. If not, your other work will expand to fill all the time you have.
- Expect electronic glitches/power outages and plan ahead. Don't wait until the last minute to submit your work.
- Maintain backup copies of all of your coursework on a flash or jump drive.

**STATEMENT:** Due to unforeseen happenings, it may be necessary for the course assignment schedule to be altered. The instructor will always strive to be fair about any changes.

The College of Central Florida is committed to helping you succeed and achieve your academic, personal, and career goals. There is a wide range of resources and support services available to you. When students are connected early to resources and support systems on campus, they are more likely to stay in classes, perform better in those classes, and complete their paths more quickly. One example is through an Early Support Program, where you may receive an email indicating your professor or advisor is reaching out directly to help connect you to support services. This may include connecting you to Tutoring, financial support, psychological support services, and disability services just to name a few. Be aware, that you can also reach out to these services on your own as well. Additionally, we offer disability services, a testing center, and many other resources which are all available to you. [Please refer to the College Resources, Dates, and Policies document in your Canvas course to learn more about these supports.](#)