MGF 2106 Survey in Mathematic (215092) SPRING 2016

INSTRUCTOR: Ms. Ngov PHONE: (863) 824-6000

Office Hours: see schedule below E-mail: engov@irsc.edu

**TEXT:** *Thinking Mathematically*, 6th ed. by Blitzer

**ONLINE COURSEWARE:** MathXL (<http://www.mathxl.com>)

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| **Course name** | MGF 2106 Wednesday 4:30-6:30 pm |
| **Course ID** | XL28-X111-4020-5TI2 |

**DESCRIPTION:** Topics include critical thinking, set theory, arithmetic, geometry, logic, probability, and statistics. This course is designed for liberal arts majors or non-math majors.

**CONTENT:** We will cover topics from Chapters 1 – 3, 9 – 12. (if time permits)

**Program Learning Outcomes (PLO):**

* The student will apply critical thinking through problem solving

 **Critical Assignment (CA):** Component questions within the chapter tests and final exam include

 problems requiring critical thinking.

 **Assessment**: successful completion of component questions

**Objectives for the course:**

* The student will use inductive and deductive reasoning to solve problems.
* The student will apply the principles of set theory.
* The student will perform operations on sets and apply set theory to real world applications.
* The student will identify and apply the rules of logic.
* The student will identify and apply the rules of logic.
* The student will identify valid arguments based on the rules of logic and draw logical conclusions to

 a valid argument.

* The student will convert measurements of length, are, volume, weight and temperature.
* The student will identify the basic elements of geometry and use geometric principles to solve problems.
* The student will apply the formulas of perimeter, area, circumference and surface area.
* The student will use combinatorics formulas to find the number of arrangements, permutations

 and/or combinations.

* The student will apply the principles of probability.
* The student will apply the principles of probability.
* The student will apply basic concepts of statistics.

**FINAL GRADE:** The final grade consists of homework (10%), quizzes (15%), 4 tests and a final exam (75%).

90% - 100%: A I - An incomplete can be given if your grade is at least a “C” and for

80% - 89%: B some good reason you are unable to complete the course.

70% - 79%: C

60% - 69%: D W - If you withdraw from the course, you must do this on or before

Below 60%: F **Wednesday, March 23rd.**

**REMEMBER**: In order to get credit for the Gordon Requirements, you must earn a “C” or better.

**ATTENDANCE:** Attendance will be taken at the beginning of class. If you are late, you will be considered absent. I expect you to be present, on time, and prepared for each class meeting. It is your responsibility to ascertain your assignments due to absence.

***\*\*\*After 3 absences* I will take *1 point off your final average* for each additional absence.**

**QUIZZES (15%):** You will be assigned quizzes within MathXL. Quiz material will come from previous homework assignments. These quizzes will be unproctored and may be completed on your home computer or in the lab. You have unlimited chances to retake the quiz before the deadline expires. I will take the highest grade of all attempts. **Note: All quizzes must be completed by the due date.**

 Be prepared for a quiz at each class meeting. Quizzes will be given as time permits. There is NO make-up for in-class quizzes.

**HOMEWORK (10%):** You will be assigned a considerable amount of homework from MathXL, the online computer assignments, to be completed before the next class. Additional Homework problems have been listed from the textbook, which are optional. Test questions are very similar to problems assigned from the homework. I will answer questions on text problems at the beginning of each class, but only if you’ve attempted the problem prior to class in your homework.

**Caution: If you do not do the homework, it will be very difficult for you to pass the class**.

**EXAMS (75%):** There will be 4 tests, plus a final exam. The final is cumulative. All tests will be computerized (not final exam). You may use an approved calculator on each test (NO Ti-89). (Please see the final exam schedule on syllabus)

**Makeup Tests:** No make-up exams or quizzes will be given. Tests: If you miss a test you must notify me BEFORE thetime the test is given. If you have a valid and verifiable excuse I will use your Test 4 score twice. Otherwise, (e.g. if you just don’t show up for any test) you will receive a ZERO grade for this exam. **If you miss a second exam for any reason, you will be given a zero.**

**MATERIALS NEEDED:** Notebook for notes and assignments and a scientific calculator is required. If you choose to purchase a graphing calculator, a TI-84, TI-83 plus or TI-83 is best. Prohibited calculators include a TI-89, TI-92, TI-N spire with CAS, Voyage 200 and HP-48G. Cell phones, iPods and/or PDAs may not be used as a calculator and should be turned off during class.

**Cheating/plagiarism**: If you are found cheating in any way during your testing, you will receive a grade of zero and may be taken before the Academic Review Board for possible dismissal from IRSC. You are expected to do your own work at all times.

**Withdrawals** are the responsibility of the student to complete before the withdrawal date.

**Instructor Withdrawals** are only granted under the following conditions and will not be given after the final exam is completed:

1) Student submits a written request via Blackboard Mail at least 1 week before the end of the semester; and

2) student is current with all assignments, tests, and attendance; and

3) student has consulted with Guidance on any consequences of receiving a W; and

4) one of the following:

A) a documented emergency or hardship prevents the student from completing the course; or

B) the student attends, participates, and completes all assignments except the final exam, but has no chance of passing the course with a C or higher.

**Incompletes** are only granted under the following conditions and will not be given after the final exam is completed:

1) Student submits a written request via Blackboard Mail before the date of the final exam; and

2) student is current with all assignments, tests, and attendance with a **passing grade**; and

3) student has consulted with Guidance on any consequences of receiving a W; and

4) a documented emergency or hardship prevents the student from completing the course.

***CELL PHONE***: “The use of cell phones is prohibited during class at IRSC.  All cell phones must be set on silent or off during the class period.   Any student who uses a cell phone to make or answer a call, or send and read text messages or emails, other than IRSC emergency messages during class time may be asked to leave and may be considered absent for that class. No student has the right to disturb the teaching and learning process.”

**Students with Disabilities:** In compliance with the Americans with Disabilities Act, students requiring special accommodation(s) due to a disability must register with Educational Services Division / Student Disability Services office in order to receive eligible services. These offices are located in W-143 on the main campus or you may call Rhoda Brant at (772) 462-7782 or Terry Valencia at (772) 462-7808. Students with documented disabilities may also be eligible for additional academic services through Student Support Services (SSS) located in J-101 on the main campus.

**Resources/Extra Help**: When problems arise, consider in-class questions, ASC for free tutoring, office hours, small groups, study buddy, and other textbooks. Conferences are encouraged.

The ASC Lab (Academic Support Center) is available to you Monday – Friday. In this lab you may receive FREE tutoring and you may use the textbook, solutions guide and software for this course.

* **Wednesday, March 23rd** is the last day to withdraw with a “W”.
* The School will be **closed on** **February 26 and March 14-18.**
* **Grades available online Wednesday, April 27th.**

**Office Hours:**

**Monday: 4 pm – 8 pm Tuesday: 4 pm – 8 pm Wednesday: 2 pm – 4 pm**

**Note: Information on this syllabus is subject to change.**

Ms. Ngov Tentative Schedule (subject to change) SPRING 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MGF 2106 | Mon. | Tues. | Wed. | Thur. | Fri. |
| Jan. | 18 Holiday | 19 | 20 1.1, 1.3, 2.1,  2.2, 2.3, 2.4, 2.5 | 21 | 22 |
|  | 25  | 26 | 27 2.3, 2.4, 2.5, 3.1, 3.2 | 28 | 29  |
| Feb. | 1 | 2 | 3  **TEST 1 (chap.1 -2)** 3.1, 3.2  | 4 | 5  |
|  |  8  | 9 | 10 3.2, 3.3, 3.4, 3.5 | 11 | 12 |
|  | 15  | 16 | 17 3.4, 3.5, 3.6, 3.7, 3.8  | 18 | 19 |
|  | 22  | 23 | 24  **TEST 2 (chap. 3)** 9.1, 9.2, 9.3 | 25 | 26 No classes |
|  | 29  | 1 | 2 9.3, 10.1, 10.2, 10.3 | 3 | 4 |
| Mar. | 7  | 8 | 9 10.3, 10.4, 10.5  | 10 | 11 |
|  | 14 SpringBreak!!!   | 15 | 16 Spring Break!!!! | 17  | 18 |
|  | 21  | 22  | 23  **TEST 3 (chap. 9 – 10)** 11.1, 11.2  \*\*\*Withdraw deadline | 24 | 25 |
|  | 28  | 29 | 30 11.2, 11.3, 11.4, 11.6, 11.7 | 31 | 1 |
| Apr. | 4  | 5 | 6 11.6 , 11.7, 11.8  12.1, 12.2 | 7  | 8 |
|  | 11  **Test 4 (chap. 11 – 12)**  | 12 | 13 review | 14 | 15 |
|  | 18   | 19 | 20  **Final exam** | 21 | 22  |