Syllabus
Math 100 - Survey of Mathematics
MTWRF 12:00-1:15 PM
07/05/16-08/12/16

Instructor: Isabella Tobin
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Office Hours: TBD
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Course Description: MATH 100 includes a variety of selected mathematical topics designed to acquaint students with examples of mathematical and quantitative reasoning that demonstrate the beauty, power, clarity, and precision of mathematics. The core course content includes deductive, numeric, symbolic, graphical and statistical algorithms and reasoning. MATH 100 is not intended as, and does not qualify as, a prerequisite for advanced mathematical courses.

KOKUA: Any student who feels s/he may need an accommodation based on the impact of a disability is invited to contact me privately. I would be happy to work with you, and the KOKUA Program (Office for Students with Disabilities) to ensure reasonable accommodations in my course. KOKUA can be reached at (808) 956-7511 or (808) 956-7612 (voice/text) in room 013 of the Queen Lili'uokalani Center for Student Services.

Student Learning Outcomes:
   ● Model quantitative problems symbolically and perform manipulations on the symbols within an appropriately selected mathematical or logical formal system.
   ● Interpret, analyze, and critique arguments to distinguish between a rigorous proof and a conjecture.
   ● Author an elementary proof.
   ● Correctly select, then appropriately apply, formal rules or algorithms to solve numeric, symbolic, graphical, and/or applied problems.
   ● Interpret and critically evaluate the reasonableness of quantitative, theoretical, and applied problems.
   ● Select and correctly utilize precise mathematical language and symbols to effectively communicate procedures and results.

Course Materials:
➔ Textbook: <u>Mathematical Ideas</u> by Miller, Heeren, Heeren & Hornsby, 13th edition, Pearson Education
➔ MyMathLab (access code)
➔ Scientific calculator (non-graphing)
➔ Computer and internet access

Topics:
We will be covering the following chapters and topics as well as others.
● Chapter 2- Set Theory
● Chapter 3- Logic
● Chapter 10- Counting Methods
● Chapter 11- Probability
● Chapter 14- Graph Theory

Grading:
A student's course letter grade will be determined by the student's weighted grade average using the following grading scale.

> 90%-100% - A
> 80%-89% - B
> 70%-79% - C
> 60%-69% - D
> Below 60% - F

The weighted grade average will be calculated as follows:

> Attendance/Class Participation - 10%
> Homework - 20%
> Quizzes - 20%
> Exams - 50%

This is subject to change at the discretion of the instructor.

Attendance/Class Participation: Students are expected to attend all class sessions. They are also expected to be on time and stay for the entire duration of the class sessions. Students must come to class with the appropriate learning tools. Students will be held accountable for any material that was covered in a missed class session. Students will be expected to be alert and engaged during the class periods.

Homework: Most homework will be done online using MyMathLab. Students will need to set up a MyMathLab account and register for a MyMathLab course using a MyMathLab access code. These are included with the purchase of a new textbook. Students should complete assignments on time and points will be deducted for late work. The course ID for MyMathLab is **tobin93007**.

Quizzes: There will be several quizzes throughout the semester. This quizzes may be given without notice, and they may be in class or take-home quizzes. There may not be a make-up for any missed quizzes.

Exams: There will be 3 exams. This is subject to change with sufficient notification. The course will be subject to the following provisions for missed exams.
● There will be NO make-up for an exam missed due to non-emergency reasons.

- To request a make-up for an exam missed due to an emergency, a student must submit written evidence detailing the emergency. This must include a third-party name and contact information.
- The granting of a request for a make-up exam is solely at the discretion of the instructor.
- A make-up exam may be subject to a deduction of up to 10% penalty points.
- A make-up exam may not be identical or comparable to the original exam.

There will be two exams worth each worth 15% of your final grade and one cumulative final exam worth 20% of your final grade.

Exam 1: 07/19/16 - Set Theory and Logic
Exam 2: 08/03/16 - Probability and Counting
Final Exam: 08/12/16 - Cumulative

This is subject to change at the discretion of the instructor, with reasonable notice given.

Student Conduct:

In order to have a classroom environment that will fully support the teaching/learning process, students are expected to behave responsibly at all times. They are expected to be mindful of the right of others and to collectively enforce standard rules of meaningful interaction. In addition, they are expected to respect the interests of the college, as set forth in the Student Conduct Code. Any student whose classroom behavior may be deemed by any class member to be in violation of the Student Conduct Code may be referred to the appropriate college official for possibly disciplinary action. Disruptive/inappropriate behaviors include but are not limited to the following: cheating, turning in another person's work as your own, using electronic/communication gadgets during class.

Instructor/Student Consultation

Students who are having difficulties should meet with the instructor as soon as possible. Some topics are prerequisite to later material, so ignoring current difficulties will likely result in even more problems later. Office hours are the times that the instructor is expected to be in or near the office. Due to meeting, conferences, workshops etc., the instructor may not always be immediately available during scheduled office hours. Office hours are held on a first-come first-serve basis.

Campus Resources:

Instructional and academic support faculty and staff are on campus to help students. Students who are having difficulties with the course are strongly advised to meet with the instructor as soon as possible. The instructor may then help the students connect with the campus resources (MATH LAB, COUNSELING, KOKUA, etc.) that can appropriately meet their needs.