KURDISTAN REGIONAL GOVERNMENT
MINISTRY OF HIGHER EDUCATION & SCIENTIFIC RESEARCH
University of Salahaddin-Hawler

COLLEGE OF Business and Administration
DEPARTMENT OF STATISTICS AND INFORMATICS

Syllables of General Mathematics-1st Year (2nd semester)

2020-2021

INSTRUCTOR: **Marwan T. Hassan**

Class Hours:
Group A: 8:30 AM -10:00 AM on Tuesday
Group B: 12:15 PM -1:45 PM on Tuesday
Group C: 10:00 AM -11:30 AM on Tuesday

This syllabus contains the policies and expectations I have established for General Mathematics Class. Please read the entire syllabus carefully before starting in this course. These policies and expectations are intended to create a productive learning atmosphere for all students. Unless you are prepared to abide by these policies and expectations, you risk losing the opportunity to participate further in the course

Help and Office Hours

- Right after lecture is always a good time to ask question.
- Office (My room is next to Department of Statistics)
- Appointment can be made by e-mail (marwan.hasan@su.edu.krd)
- phone: 0750 4863396

Grading policy

During the course there will be two exams; class participation, quizzes, homework; and a cumulative final exam. All exams will be **close book** and **closed notes**. There will be a total of 100 points to be earned during the year with the following breakdown

Class Participation, Report, Quizzes and homework	10 grades
Midterm Exam	30 grades
Final Exam	60 grades

- Late Homework and Report submission will be rejected.

Policy

- We will start the class on time and will finish on time.
- Raise your hand and tell me immediately if I go over the time limit
- Mobile phones *must* be turned off or set in silent mode.
- Feel free to stop me when I talk too fast or too slow.
- Points on quizzes/ exercises/ exams are generally based on your entire solution, not your final answer.
- Cheating will not be tolerated.

Outlines:

Week	Outline	No. of Hours
1	Derivatives The derivative by definitions Techniques of differentiation	2
2	The Chain Rule. Higher-Order Derivatives The Implicit Differentiation	2
3-4	Derivatives of algebraic Trigonometric and exponential functions and their inverses.	2
5	Hyperbolic functions and their derivative. The derivatives of functions like u^v Partial derivatives	2
6	L'Hopital Rule Maxima and Minima	2
7	Integration Ant derivatives and Indefinite Integration	2
8	Integrals of trigonometric functions	2
9	Integrals of inverse trigonometric functions Integrals of hyperbolic functions	2
10	Method of Integration Integration by parts	2
11-12	Integral involving Partial Fractions	2
13	Integration by trigonometric substitution	2
14-15	**Application of integrals** Area between two curves Double integrals	2

Course Reading List and References:

- **Howard Anton, Calculus with Analytic Geometry (Fifth Edition), 1995.**
- **Thomas, Calculus (Eleventh Edition).**
- **William V. Smith., The Calculus, 2001available free at**
- http://math.byu.edu/~smithw/Calculus/

http://www.wolframalpha.com/