DAKOTA COLLEGE AT BOTTINEAU

COURSE SYLLABUS

Course Prefix/Number/Title

Math 278 Math for Elementary Teachers II

Number of Credits: 2

Course Description:

A mathematics content course for prospective elementary school teachers that integrates the understanding of content and development of processes. Topics include real numbers, algebraic thinking, functions, probability, statistics/data analysis, geometry, and linear measure (unit analysis).

Pre-/Co-Requisites:

Math 277 or instructor approval

Course Objectives:

1.Students will understand the content of elementary school mathematics.
2.Students will be able to work with problem solving and its applications.
3.Students will be able to work with numeration systems and their applications.
4.Students will be able to work with Algebra.
5.Students will be able to work with Probability, Statistics, and Geometry.
6.The application of calculators and manipulatives will be stressed in the course.

Instructor:

Scott Johnson

Office:

Nelson Science Center 110

Office Hours:

MWF 2:00

Phone:

(701)-228-5474

Email:

scott.allen.johnson@dakotacollege.edu

Lecture/Lab Schedule:

R 9:00-10-40
Nelson Science Center 124

Textbook:

Mathematics for Elementary Teachers, 10th Addition by Bennett, Burton, Nelson, and Ediger

Course Requirements:

The sequential nature of mathematics deems it necessary for students to attend class on a regular basis, therefore one of the course requirements is regular attendance. Grades will be based on exams and selected homework assignments using the following scale. Exams and homework cannot be made up without special permission from the professor. FINAL EXAM WILL BE GIVEN DURING THE SCHEDULED TIME.

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F= 59-0%

Tentative Course Outline:

Problem Solving
Real Numbers
Algebraic concepts
Geometry
Linear Measure

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): NA

General Education Competency 3: Demonstrates mathematical understanding.
Learning Outcome 1: Utilizes appropriate mathematical techniques
Learning Outcome 2: Employs critical thinking skills

Relationship to Campus Focus:

Mathematics 278 emphasizes technology through the use of graphic calculators and other technologies.

Classroom Policies:

Please refrain from any behavior that would disrupt the class. Cell phones can only be used in emergency situations and they must be turned to vibrate. The academic environment is an open and harassment free environment. Participation is encouraged.

Student Email Policy:

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity:

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

Title IX:

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.

AI Student Policy:
Unless otherwise indicated in the course syllabus, or in individual instructions for course assignments, or in the absence of the express consent of the course instructor, students are not allowed to utilize generative AI to help produce any of their academic work. Any violation of this policy will be considered an act of academic dishonesty as outlined within the Dakota College Code of Student Life.

RESPONSIBILITIES

Students	• Responsible to follow the syllabus and assignment instructions regarding use of generative AI for all academic work. • Obtain permission of the instructor prior to the use of generative AI that is outside of the syllabus or assignment instructions. Provide appropriate rationale for how the use of generative AI will enhance the learning experience for the assignment.

	• In instances where generative AI is permissible, appropriately cite the generative AI program used and indicate where in the assignment it was used, in a brief submission statement.
Faculty	• Determine if the use of generative AI could enhance student learning in any assignment of project. • Clearly indicate in all course syllabi if generative AI is allowable for any academic work. • If allowable, give specific parameters for how and when generative AI may be used. • If a violation of generative AI for the individual course/syllabus is suspected, discuss the concern with the student. If violation is still suspected, inform the appropriate semester coordinator/program director.