

Course Prefix/Number/Title

Math 278 Math for Elementary Teachers II

Number of Credits: 2

Course Description:

Understand and apply mathematical concepts to the solution of problems. Mathematical content includes topics in geometry, measurement, algebra, graphing, functions, statistics, and probability

Pre-/Co-requisites:

Math 277 Mathematics for Elementary Teachers

Course Objectives:

1. Demonstrate an understanding of the mathematical concepts taught at the elementary and middle school level.
2. Communicate to others an understanding of middle school – level mathematics by writing reflections on methods of teaching and by explaining strategies and steps used in problem solving.
3. Use manipulatives and models to demonstrate and explain the mathematical processes used in problem solving.
4. Utilize many distinct problem-solving strategies.

5. Demonstrate an understanding of developmental processes in learning mathematics through the selection of age-appropriate strategies.

Instructor:

Scott Johnson

Office:

Nelson Science Center 110

Office Hours:

MWF 2:00-3:00

Phone:

(701)-228-5474

Email:

scott.allen.johnson@dakotacollege.edu

Lecture/Lab Schedule:

R 9:00-10:40
Nelson Science Center 105

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
Numeration Systems
Algebra
Probability and Statistics
Graphing Calculators and Technology

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

None

Relationship to Campus Focus:

This course is a core requirement of the paraeducation Program, a program that requires knowledge of human nature and learning, utilization of computer equipment and other media to create lessons and deliver instruction and understanding of the role of paraprofessionals in education.

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.