

Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title:

Math 165 Calculus I, 4 credits

Course Description:

Limits, continuity, differentiation, Mean Value Theorem, integration, Fundamental Theorem of Calculus, and applications.

Course Objectives:

The student will be introduced to the topics above which require certain techniques for solutions. We will develop ideas and methods for applying these techniques leading to a solution or resolution of the question. During the course the student will be exposed to the use and application of the graphing calculator in the appropriate areas.

Instructor:

Scott Johnson

Office:

Nelson Science Center 110

Office Hours:

TR 1:00-2:00

Phone:

(701)-228-5474

Email:

scott.johnson@dakotacollege.edu

Lecture:

MTWF 9:00

Textbook/Calculator:

Calculus 10e by Ron Larson and Bruce Edwards, Cengage, 2014, Graphing calculator TI-83 or TI-84 Series

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 using the following scale. 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:

Preparation for Calculus

Limits and their Properties

Differentiation

Applications of Differentiation

Integration

Logarithmic, Exponential, and other Transcendental Functions

Differential Equations

General Education Goals/Objectives:

Goal 2: Demonstrates knowledge and application of technology

Objective 2: Uses electronic resources for course related assignments and information

Skill 1: Selects appropriate program on the graphing calculator to solve problems

Goal 3: Demonstrates the ability to convert, calculate, and analyze a variety of mathematical problems

Objective 1: Utilizes mathematical equations to solve problems

Skill1: Solves equations and problems using the appropriate method

Objective 2: Applies practical application of mathematics to everyday life

Skill3: Solves word problems

Relationship to Campus Theme:

Mathematics 103 emphasizes technology through the use of graphic calculators and nature through wildlife population modeling.

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.

Academic Integrity:

If there is evidence of cheating on an exam the student will receive an F on the respective exam.

Disabilities and Special Needs:

If you have a disability for which you will need accommodation, contact the Learning Center to request disability support services.

Thatcher Hall 1104; phone 701-228-5477 or toll free 1-888-918-5623.

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.