



United Tribes Technical College

MTH 277 Math for Elementary Teachers I Syllabus

MTH 277 A Fall 2019

Instructor and Class Information

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Office Location	Science and Tech 142
Office Hours	Wednesday & Friday 2:00 PM - 5:00 PM
Section Number	A
Start Date	8/26/2019
End Date	12/13/2019
Meeting Times	Mon-Wed-Fri, 9:00 AM - 9:50 AM
Location	Science and Tech Room 215

Course Information

Course Number	MTH 277
Course Title	Math for Elementary Teachers I

Course Description

Participants in this course will develop a deep understanding of mathematical concepts, procedures, and skills that are essential to being able to teach children mathematics in the elementary grades. Current trends in mathematics are emphasized, with particular attention to documents created by the National Council of Teachers of Mathematics.

Total Credits	3
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Textbooks

Beckmann, S., (2014). Mathematics for elementary teachers with activities. (5th ed.) London, England: Pearson. (ISBN-978-0-321-82752-8).

External Standards

Title	Elementary Education
Sponsoring Organization	NDESP

Target Standards

50015.2d The teacher candidate will study social studies. Candidates know, understand, and use the major concepts and modes of inquiry from the social studies-the integrated study of history, geography, the social sciences, and other related areas-to promote elementary students' abilities to make informed decisions as citizens of a culturally diverse democratic society and interdependent world.

Course Objectives

1. **Demonstrate mathematical thinking and reasoning skills.**
2. **Demonstrate problem-solving techniques and strategies.**
3. **Increase mathematical skills of systems used in the elementary school.**
4. **Participate in a mathematical web quest on the Internet.**
5. **Apply the use of technology through web-based activities.**

Instructor Grading Information

A. Grading Scale

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

B. Communication

All students are required to regularly check their MyUTTTC account to obtain information on course assignments, detailed instructions, and announcements. Students are expected to check their student account regularly for any updates or coursework changes. It is important to provide the instructor and/or academic advisor with your current email address, phone numbers and alternate contact information. Class cancellations, emergency information, or other announcements can be conveyed in a timely manner if we have your current contact information.

C. Attendance Policy

Class attendance is very important for academic success of all students enrolled at UTTC. Instructors are required to report student attendance into UTTC's Jenzabar data management system on a daily basis during census period (the first two weeks of fall and spring semesters, and the first week of summer semester) and throughout the academic semester. Students can track and monitor their own attendance, per class, on the Learning Management System (LMS) found at my.uttc.edu.

UTTC recognizes particular circumstances may arise that affect the student's ability to attend class; therefore, it is important students communicate with their instructors regarding any emergencies that cause them to miss class (i.e. medical, family emergency). Regardless of the circumstances, the student is responsible for obtaining any information, such as assignments, handouts, and any course changes or announcements that he or she may have missed because of the absence. The student may refer to the course assignments in my.uttc.edu, contact another student enrolled in the course, or set up a meeting with the course instructor to get the missing information.

Attendance, completion of assigned readings and assignments, and engagement is the equivalent of participation since the student's engagement with classmates contribute to everyone's understanding and achievement. Student grades will be impacted by the frequency and quality of participation in class.

Faculty members are required to report student non-attendance during the Census period at the start of each academic term in compliance with federal regulations pertaining to financial aid.

Instructors will initiate an academic attendance "Early Alert" using the Jenzabar retention tool using the Attendance Policy & Withdrawal guidelines found in the Academic Affairs section of the College Catalog.

D. Participation/Class Engagement

UTTC prepares students for the workforce by holding high academic expectations for all students. The implementation of participation points requires students to be mentally and physically present and engaged during class sessions. Participation points may be utilized to measure students' ability to be on time, to refrain from external distractions (cell phone usage, holding side conversations with other students), by providing positive contributions to class discussions, participating in individual or group activities, and being prepared for class. Students should refer to the participation/class engagement section of course syllabi for the instructors' expectations for participation/class engagement in each course.

E. Policy for Late Assignment Submission

UTTC supports and fosters the student's responsibility for completing and submitting assignments on or before scheduled due dates and times. If an assignment is due, the student should make every effort to submit the assignment on time. Occasionally, a student may experience an unexpected life event that results in the submission of late work. Communication is the key. Instructors are more than willing to work with students in the event of an emergency if the student communicates with them before the date and time the assignment is due to make other arrangements.

Late assignment deadlines will vary among departments but will not exceed more than five (5) business days after which the assignment was initially due. Assignment due dates, late assignment deadlines, and late assignment penalties are outlined in course syllabi. Assignments not submitted by the initial deadline date will be reflected in the course gradebook as a zero (0) until the assignment has been submitted. The amount of points deducted for late work is at the discretion of the instructor.

***Teacher Education course assignments will receive half credit up to the five (5) business days which the assignment was initially due.**

F. Missed Tests, Exams and Quizzes (Formal Assessments)

Students may not make up a missed test, exam or quiz without a valid reason for their absence (illness, family emergency). It is the student's responsibility to contact their instructors before the absence, or within 24 hours after missing the formal assessment. The instructor will review the reason the student missed and determine if the circumstance justifies the student being allowed to take the formal assessment.

Approved make-up assessments must be taken outside of the student's regular class schedule and during a time and location agreed upon between the student and instructor. Students are not to miss another class in order to make-up an assessment for another course. If the student fails to show on the date and time of the makeup assessment, the student will not be permitted to reschedule the makeup and the assessment and will earn a 0% grade.

***Presentations will follow the same policy.**

G. Early Alert System

UTTC's Early Alert System (EAS) is a proactive, communication driven support system that provides timely identification and interventions to work with individual students to assist in generating plans to overcome challenges to college success. The system assists UTTC students by linking them to faculty and staff who can provide and connect students to available resources and strategies. The early alert serves as an opportunity for students to take ownership of their success and empower them to accomplish academic and personal goals. The system helps faculty and academic advisors connect and communicate with students as issues arise. The additional cross-wide partnerships create a culture of collaboration focused upon the best interest of UTTC students.

Academic related concerns such as attendance, missing assignments, or classroom behavior will result in an early alert being issued by faculty. When an early alert is issued, the student will receive an email requesting them to make arrangement to follow up with the instructor and/or their academic advisor. Students receiving an early alert should make the necessary arrangements to set up and meet with faculty as soon as possible to generate a plan of success.

H. Cell Phone

Out of respect for the other students and the instructor, it is advised that cell phones are turned off during class times. If the student is expecting an important phone call (e.g. case worker, Housing, clinic), the instructor must be informed ahead of time and the cell phone set to a silent ring. If such a phone call is received during class time, the student will answer the call by quietly removing him or herself from the classroom. This also includes texting during class; it is not acceptable. Students may not use class time to check social media accounts, voicemail, and/or personal emails.

I. Student Behavior

UTTC students will conduct themselves in a responsible and respectful manner at all times in the classroom, in the hallways, in the Library, the Cafeteria, and any other location on campus. Student behavior that interferes with learning in the classroom will not be tolerated. This behavior includes chronic tardiness, threatening confrontations, intoxication, inappropriate physical contact, lewd or disrespectful language or gestures directed at the instructor or at fellow students, bullying, direct or indirect intimidation, and conversations with other students that are not related to classroom topics.

Faculty are expected to maintain professional management of classroom activities prior to, during and after class times. As such, if a student demonstrates behavior that disrupts or interferes with classroom activities, an instructor reserves the right to ask the student to leave the classroom, to contact campus security, to request mediation by the academic department chair or an academic/personal counselor, or to file a formal complaint subject to a student disciplinary hearing.

J. Plagiarism and Academic Integrity

Plagiarism is the term for taking credit for work that is not your own. This means you cannot take material from articles, books or websites you find in the library and present it as your own work; you cannot let your friends prepare your assignments for you; and you cannot copy an assignment from a student who took the same course in another semester. Plagiarism is taken seriously because this is a place for learning and new ideas; your assignments are evidence of your learning, your original ideas.

Providing work that is not your own, or that is not unique to the assignment, is inappropriate as a form of dishonesty. The consequences of plagiarism are serious: you will be given an F on the specific assignment, or the entire course, at the instructor's discretion. If you need advice on how to appropriately cite the work of others, please ask. As long as you acknowledge an idea is not your own, and provide the original source, it is generally not plagiarism.

Examples of violations of academic integrity are lying about the reason for an absence, or signing someone else's name to a sign-in sheet when they were not present. Please keep in mind that students generally ask their instructors for recommendations, whether for jobs or for scholarships.

K. Students with Disabilities

United Tribes Technical College recognizes its responsibility for making reasonable accommodations to ensure there is no discrimination on the basis of a disability. The Disabilities Services Office coordinates reasonable accommodations, support services, and appropriate referrals for the purpose of removing barriers and providing an equitable learning environment. If you have a disability, please contact the Disabilities Services (DS) office at (701) 255-3285, ext. 1516.

L. Title IX Statement

Title IX is a federal civil rights law that prohibits discrimination on the basis of sex, including sexual harassment, rape and sexual assault. United Tribes Technical College is committed to upholding the law and standards that promote respect and human dignity in a safe environment. Sexual misconduct and relationship violence in any form violates UTTC's mission, cultural values, Student Code of Conduct, and may also violate federal and state law. Faculty members are considered "mandatory reporters" and are required to report incidents of sexual misconduct and relationship violence to the Title IX office on campus. If you or someone you know has been impacted by sexual assault, dating and domestic violence, stalking or sexual exploitation, you can find the appropriate resources on the UTTC campus and in the community. These resources include:

- UTTC Title IX Office: (701) 221.1591
- UTTC Campus Safety & Security: (701) 221.1700
- UTTC Academic & Personal Counseling: (701) 221. 1764
- UTTC Domestic Violence Advocate: (701) 221. 1764
- Abused Adult Resource Center Crisis Line: (866) 341.7009

- ND Helpline: 211

M. Summit Participation

All UTTC students participate in the United Tribes Technical College Tribal Leaders Summit & Trade Show in September at the Bismarck Event Center. Students are expected to be at the Summit from 9:00 am to 3:00 pm daily (Tuesday - Thursday). Transportation to and from the campus will be provided. Sign in sheets will be available at the registration tables for all students to sign upon arrival and again at departure.

At the conclusion of the Tribal Leaders Summit, the student is expected to write an essay on how the session presentation connected to the UTTC Events Week theme. Include the title of the sessions attended, the names of the presenters, a brief description of the content presented in each session, the presenter style, and how the sessions connected to the theme. Visiting the exhibit hall can be included as a session. The essay is considered an assignment for each one of the students' courses and is recorded as either points or a letter grade. One reflection paper can be submitted for multiple courses.

Relationship between ND ESPB Elementary Education Standards, Outcomes and Course Assessments

ND ESPB Elementary Education Standard	Assessment (Taskstream Documents)	Program Outcome	Assessment (Taskstream Documents)
50015.2b Curriculum Mathematics	Math Lesson and Activities Binder	AAS Program 1: Distinguish characteristics of education theories, effective practices, and foundations.	Math Lesson and Activities Binder

United Tribes Technical College Teacher Education Conceptual Framework



The Teacher Education unit seeks to improve the quality of education in America by producing reflective professional educators who have demonstrated competency in the knowledge, skills and dispositions necessary for effective teaching through a coherent program of study. Using the INTASC (Interstate New Teacher Assessment and Support Consortium) standards, as well as the philosophy of the department's conceptual framework, Teacher Education has established candidate outcomes that are assessed throughout the Teacher Education program(s)

The Teacher Education program is based on shared core beliefs that incorporate the 4Rs - Relatedness, Relevance, Respect, and Responsibility.

Relatedness is evidenced by believing and behaving as if you are a relative to another person or thing. It is demonstrated and reinforced through collaborations with children and families.

Relevance is meaningful and authentic learning experiences tied directly to state and national standards. Candidates learn and experience reflective practice through hands-on practicums in the classroom under mentor and instructor guidance. They are provided the opportunity to study concepts that are meaningful and relevant to one's life and interests.

Respect is an important traditional Native value. Respect is demonstrated through candidate contributions and their respect of others' contributions. The disposition of respect is demonstrated through courtesy, kindness, and acceptance of individuals and their contributions.

Responsibility is a core value of Native cultures as well as the culture of teaching. Candidates are expected to demonstrate accountability for their actions and decisions as they engage in their general education and teacher education curriculum.

Class Schedule

Date/Session	In Class Topic	Assignment/ Project
Week 1	Numbers and Base Ten System	Read Chapter 1.1 and 1.2 Practice Worksheets
Week 2	Summit Conference	Summit Reflection Paper
Week 3	Numbers and Base Ten System	Read Chapters 1.3 and 1.4 Practice Worksheets Math Activity
Week 4	Fraction and Problem Solving	Read Chapter 2.1 to 2.5 Practice Worksheets Fraction Strips and Activity
Week 5	Addition and Subtraction	Read Chapters 3.1 to 3.5 Practice Worksheets Number Line Activity
Week 6	Multiplication	Read Chapter 4.1 to 4.3 Practice Worksheets Array Boxes and Multiplication Game
Week 7	Midterm Week	Review Chapter 1-4 Midterm Exam
Week 8	Multiplication	Read Chapter 4.4 to 4.6 Practice Worksheets Multiplication Activity
Week 9	Multiplication of Fractions, Decimals, and Negative Numbers	Read Chapter 5.1 to 5.4 Practice Worksheets Multiplication Activity
Week 10	Division	Read Chapter 6.1 to 6.3 Practice Worksheets Division Activity
Week 11	Division	Read Chapter 6.4 to 6.6 Practice Worksheets Story Problems Division Activity

Date/Session	In Class Topic	Assignment/ Project
Week 12	Ratio and Proportional Relationships	Read Chapters 7.1 and 7.2 Practice Worksheets Graphing Activity
Week 13	Ratio and Proportional Relationships	Read Chapters 7.3 and 7.4 Practice Worksheets Skittles Activity
Week 14	Number Theory	Read Chapters 8.1 to 8.5 Practice Worksheets Math Activity 1
Week 15	Number Theory	Chapter 8.6 to 8.7 Practice Worksheets Math Activity 2
Week 16	Review and Final Exam	Final Binder Presentation