



The mission of Concord University is to provide quality, liberal arts based education, to foster scholarly and creative activities and to serve the regional community (<http://www.concord.edu/academics/>).

**Course Prefix, Number and Title:** EDUC 413, Elementary Math Methods

**Course CRN # and Section**

**Semester Taught:** Spring, 2019

**Professor:** Dr. Kathryn Tucker

**Credit Hours:** 3 hours

**Office Location:** Marsh Hall, Rm 133A

**Prerequisites:** Admissions to TEP

**Office Hours:**

Monday 10:00-12:00

Tuesday 1:00-2:00

Wednesday 1:00-2:00

Thursday 1:00-2:00

By appointment

**Course Time:** See Schedule Timeline

**Email:** [kjtucker@concord.edu](mailto:kjtucker@concord.edu)

**Building and Room Number:** Marsh, Room 135

**Phone:** 304-384-5293

**Office Fax:** 304-384-5398

**College/Department Website:**

<https://www.concord.edu/education/>

### **Course Description/Rationale:**

Elementary Math Methods focuses on the acquisition of knowledge and skills necessary to teach math to diverse learners. Students will understand stages of development and create instructional approaches and activities that are developmentally appropriate and that maximize young students' understanding and interest in mathematics. Students will utilize manipulatives and other hands-on activities to illustrate concepts. A field placement in the public school classroom is required.

**Course Management System:** Blackboard

**Hardware/Software Needed:** Microsoft Word is required for all assignments submitted on Blackboard

**Text requirements:** Elementary and Middle School Mathematics: Teaching Developmentally,  
John A. Van de Walle, Karen S. Karp, Jennifer M. Bay-Williams,  
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**Concord University Educational Goals:**

**Skills:** Proficiency in interpreting data, integrating information, formulating ideas, thinking critically, and communicating with others, as demonstrated by the following competencies:

1. Effective inter-communication skills and literacy adapted as needed for the demands of various kinds of discourse:
  - listening and speaking
  - reading and writing
  - numeracy
  - graphic communication
  - media and technology literacy
2. An ability to employ appropriate observational, logical, analytical, computational, creative, and critical thinking skills within and across academic disciplines; and to apply these skills in problem-solving.
3. An ability to analyze, synthesize, and integrate elements, information and ideas.
4. An ability to evaluate elements, information, and ideas on the basis of appropriate criteria.
5. An ability to learn and work effectively both independently and collaboratively.

**Knowledge:** Familiarity with principles underlying academic discourse in various fields, as demonstrated by the following capabilities:

1. An ability to discern the reciprocal influences of environments, cultural beliefs and attitudes, and societal institutions and practices.
2. Acquaintance with principles underlying languages, for example, linguistic, mathematical, and computer-language systems.
3. Self-knowledge, including awareness of one's own competencies, deficiencies, and optimal individual learning-style(s).

**Attitudes:** Tendencies conducive to self-knowledge, personal growth and development, and responsible citizenship as demonstrated by the following:

1. Habitual reflection on ethical/moral implications of actions when weighing decisions and evaluating outcomes.
2. Respectful attentiveness to differing perspectives and willingness to engage in dialogue across differences in order to seek mutual understanding and equitable conflict resolution.
3. Cultivation of and support for attitudes and practices that foster physical, mental, emotional, and social well-being.
4. Motivation to pursue lifelong learning and ongoing intellectual growth.

**National Standards** (if applicable) For example, NCTM, IRA, CAEP, etc.

**Specific Learning Outcomes**

## **Learning Outcomes**

### **Course Requirements:**

All assignments will be submitted electronically through blackboard and submitted on the due date by midnight. Blackboard will also be used for online instruction (dates are assigned on course schedule). Be aware that emails from the instructor will be through the Concord email addresses. A list serve for each class has been developed through blackboard so that all class members can be contacted easily. It is your responsibility, therefore, to both know your Concord email and Blackboard email and to check it on a regular basis.

Many of the assignments for this course require the use of the Internet and a word processor. You will need access to both. Computer labs and library computers are available to you at specified times. If you do not have a computer of your own, please take note of those times and plan accordingly. Your assignments will be submitted electronically, you must have a flash drive to which you can save copies of your work as backup in the event that something “cyber” occurs! **NOTE: You must use MS Word for all work submitted electronically. Additional information regarding the use of technology will be provided during class meetings.**

**NOTICE TO CELL PHONE OWNERS/USERS: Cell phone usage (including text messaging) is not permitted during class sessions; therefore, you should turn off your cell phone when you enter class. Violating this policy may result in removal/withdrawal from class.**

### **Attendance**

Class attendance is paramount to the successful completion of this course. Students are expected to attend all class meetings for the entire time allotted. Students will earn 100 points for attendance. After student misses two class meetings, the student's final course grade will be dropped one letter for each additional class missed.

### **Class Participation**

Participation includes completion of all reading and written assignments prior to the class meeting. Students are expected to be actively engaged in their learning through knowledgeable discussion and interaction during class. Group discussions are frequently incorporated into classroom instruction. Participation in these activities is mandatory.

In order to understand the concepts of the course and to engage in meaningful class discussions and group work, it is imperative that students view the online associated materials for each chapter prior to the on-campus meeting.

### **Grading Policy and Scale, Make-up Policy, Late Work**

#### **Late Assignments**

Written assignments that are not submitted by the due date and time will be assessed a grade deduction of **twenty five percent** of the total number of points for the given assignment per each day late (including weekends, holidays, vacation days). Written assignments will not be accepted after four calendar days past the due date.

## Course Evaluation:

Assignments/Exams	Points per Assignment	Total Points	Total Percentage
Discussion Board Topics (7)	20	140	12.6
Video Analysis (7)	25	175	15.7
Homework (7)	25	175	15.7
Calendar Math Group Project	25	25	2.24
Bulletin Board Project	50	50	4.5
Development of Lesson Plans (3)	50	150	13.5
Book Check	25	25	2.24
Field Placement Evaluations (3)	25	75	6.7
Content Presentation	50	50	4.5
Tests (3)	50	150	13.5
Attendance	100	100	9.0

\*(Percentages have been rounded)

## Grading Scale

Grade	Percentile Range	Total Points
A	100-90	1003-1115
B	80-89	892-1002
C	70-79	780-891
D	60-69	669-789
F	59 and below	668 and below

\*Students must receive a minimum grade of "C" in the class to complete the requirements of the Teacher Education Program.

12.6

**Course Timeline (Schedule of Assignments/Assessments/Presentations):**

**Course Schedule**

Week	Date	Topics	Assessment	Assignments (Due the next Sunday evening by 10:00pm)
1	January 14 <sup>th</sup>	Placement/Syllabus/BlackBoard <b>Module 1:</b> Chapters 1, Teaching Mathematics in the 21 <sup>st</sup> Century Chapters 2, Exploring What it Means to Know Do Mathematics Chapter 3, Teaching Through Problem Solving	<b>Starting in week 3, students will present on a math concept topic. Students will meet individually with Dr. Tucker to discuss this project.</b>	DB 1 HW 1 VA 1 <b>Schedule a conference with Dr. Tucker</b>
2	January 21 <sup>st</sup>	<b>Module 2:</b> Chapters 4, Planning in the Problem-Based Classroom Chapters 5, Creating Assessments for Learning Chapter 6, Teaching Mathematics Equitably to All Students Calendar Math		HW 2 DB 2 VA 2 Book check (In class)
3	January 28 <sup>th</sup>	<b>Module 3:</b> Chapter 7, Developing Early Number Concepts and Number Sense Chapter 8, Developing Meanings for the Operations Chapter 9, Developing Basic Fact Fluency	<b>Test 1, Chs 1-6 (In class) Calendar Math-due Wednesday, January 30<sup>th</sup> Presentations will occur with each unit as assigned.</b>	DB 3 HW 3 VA 3 Calendar Math
4	February 4 <sup>th</sup>	<b>Module 4:</b> On your assigned campus	<b>Bulletin Board Project Due by Friday, February 22<sup>nd</sup></b>	Bulletin Board Project
5	February 11 <sup>th</sup>	<b>Module 5:</b> On your assigned campus		
6	February 18 <sup>th</sup>	<b>Module 6:</b> On your assigned campus		Lesson Plan 1

<b>7</b>	<b>February 25<sup>th</sup></b>	<b>Module 7:</b> On your assigned campus		
<b>8</b>	<b>March 4<sup>th</sup></b>	<b>Module 8:</b> <b>Chapter 10, Developing Whole-Number Place-Value</b> <b>Chapters 11 &amp; 12, Developing Strategies for</b> <b>Addition, Subtraction, Multiplication, and Division</b>		DB 4 HW 4 VA 4
<b>XX</b>	<b>March 11<sup>th</sup></b>	<b>Spring Break- No Classes</b>	<b>Enjoy!</b>	XX
<b>9</b>	<b>March 18<sup>th</sup></b>	<b>Module 9:</b> <b>Chapter 13, Algebraic Thinking, Equations, and</b> <b>Functions</b> <b>Chapters 14 &amp; 15, Developing Fraction Concepts</b> <b>and Fractions Operations</b>	<b>Test 2</b> <b>Chs 7, 8, 9, 10, 11, &amp; 12 (In</b> <b>class)</b>	DB 5 HW 5 VA 5
<b>10</b>	<b>March 25<sup>th</sup></b>	<b>Module 10:</b> On your assigned campus		
<b>11</b>	<b>April 1<sup>st</sup></b>	<b>Module 11:</b> On your assigned campus		Lesson Plan 2
<b>12</b>	<b>April 8<sup>th</sup></b>	<b>Module 12:</b> On your assigned campus		
<b>13</b>	<b>April 15<sup>th</sup></b>	<b>Module 13:</b> On your assigned campus		Lesson Plan 3
<b>14</b>	<b>April 22<sup>nd</sup></b>	<b>Module 14:</b> <b>Chapter 16, Developing Decimals and Percents</b> <b>Chapter 18: Developing Measurement</b>		DB 6 HW 6 VA 6
<b>15</b>	<b>April 29<sup>th</sup></b>	<b>Module 15:</b> <b>Chapter 19, Developing Geometric Thinking and</b> <b>Geometric Concepts</b> <b>Chapter 20, Developing Concepts of Data and</b> <b>Statistics</b>	<b>Test 3</b> <b>Chapters 13, 14, 15, 16,</b> <b>18, 19, &amp; 20 (In class)</b>	DB 7 HW 7 VA 7
<b>Finals</b>	<b>May 6<sup>th</sup></b>	<b>Final- 3 Lesson Plans with the reflections and</b> <b>evaluations.</b> <b>Test 3</b>		3 LP's with reflections submitted to BB & LiveText

**Discussion Boards, Assignments, and Lesson Plans, are due Sunday evening at 10:00pm.**

### **Accessibility/Accommodations:**

Concord University is committed to responding to the needs of students with disabilities as defined by the Americans with Disabilities Act. Please inform your instructor at the beginning of the class semester if you have a disability and are requesting accommodations. It is your responsibility to self-disclose that you are requesting accommodations. The University and instructor will provide you with a reasonable accommodation. You should register with CU's Disability Services Office, located in the Athens campus Jerry and Jean Beasley Student Center, Bottom Floor, across from the Campus Post Office. The Disability Services Office phone is 304-384-6086 or you can email the Director, Nancy Ellison, at nellison@concord.edu for assistance.

### **Academic Dishonesty**

Academic dishonesty is morally unacceptable as well as destructive to the learning and teaching atmosphere. Academic dishonesty includes the giving or receiving of improper help on examinations or assignments, falsifying documents, and plagiarism (the act of stealing and using, as one's own, the ideas or the expression of the ideas of another). Such dishonesty can lead to a variety of penalties — including but not limited to failure of assignment, failure of course, loss of institutional privileges, or dismissal from the University. (See University Catalog Academic Policies and Procedures.)

### **Concord University Honor Code**

A Concord University Honor Code was approved by students, staff, faculty, administration, and the CU Board of Governors. The Code states:

*"As a member of the Concord University Community I will act with honesty and integrity in accordance with our fundamental principles and I will respect myself and others while challenging them to do the same."*

The Honor Code is intended to unite the Concord community behind a culture of honesty, integrity, and civility.

### **Class/Online Attendance Policy**

Regular class attendance is part of a student's academic obligation at Concord. Irregular attendance may affect academic performance adversely and is detrimental to the atmosphere of a class. (See University Catalog Academic Policies and Procedures.)

### **Emergency Alert System**

In an effort to increase safety and security on our campus, Concord University encourages everyone to register for instant text message alerts. Alerts will only be used for security and safety notices. All students, faculty, and staff are eligible to receive text message alerts on their cell phones or email alerts. Please contact the IT Help Desk for further assistance (304-384-5291).

### **Emergency Information**

Emergency/courtesy telephones are located at the main entrance of each residence hall and at various other locations on campus. Emergency telephones can be identified by the flashing blue light and will provide the user with a direct link to Public Safety at the press of a button. To report an on-campus emergency, call 304-384-5357 or 911. The Office of Public Safety is located on the bottom floor of the

Rahall Technology Center. For further emergency information go to:  
<http://www.concord.edu/administration/office-public-safety>.

### **Inclement Weather Policy**

As a general policy, the University will remain in normal operations during adverse weather conditions. In the event of severe weather conditions, the following may occur:

#### University Closure

No students or employees are to report.

#### Classes Cancelled

Students do NOT report BUT employees are expected to report to work at their normal time.

#### Operating on an Inclement Weather Delay

Under this schedule, all 8 a.m. classes will start at 10 a.m. Students and faculty will follow the Inclement Weather Schedule. (See <http://www.concord.edu/emergency-alerts> for Athens/Beckley Inclement Weather Schedules.)

*\*Announcements invoking the late schedule or other options referenced above are aired on area radio and television stations and are sent as text and email messages to those enrolled for this service.*

### **Student Conduct**

In classrooms, online, laboratories, and during any activities that are part of course requirements, students are expected to observe reasonable rules of conduct.

### **Sexual Harassment & Assault**

Federal law, Title IX, and Concord University policy prohibits discrimination, harassment, and violence based on sex and gender (Including sexual harassment, sexual assault, domestic/dating violence, stalking, sexual exploitation, and retaliation). If you or someone you know has been harassed or assaulted, you can receive confidential counseling support through the Concord University Counseling Center (304-384-5290). Alleged Violations can be reported non-confidentially to the Concord University Title IX Coordinator at 304-384-6327 or [titleix@concord.edu](mailto:titleix@concord.edu). Reports to Campus Security can be made at (304-384-5357). As an employee at Concord University, I am a mandatory reporter which means I must report any sexual misconduct I am made aware of. This includes verbal or written (such as in an assignment) disclosures of sexual harassment or sexual assault.

### **Technology Services**

Contact the CU Help Desk at extension 5291 from campus or 304-384-5291 off campus. You may also e-mail [cuhelpdesk@concord.edu](mailto:cuhelpdesk@concord.edu).

## **Syllabus Disclaimer**

**"This syllabus is subject to change based on the needs of the class. Please check it regularly."**