

	<p style="text-align: center;">ELED 405: “Elementary Math Methods” Spring 2024 Syllabus</p>
Instructor:	Mrs. Jessica Hussung
Instructor’s Office Hours: Tuesday: 11:30-12:30 Thursday: 9:00-12:30 Friday: By appointment only. J Hussung's Office Hours Office: GRH 1101	

*Note: This document and other class related materials are available
 on our course site at <https://wku.blackboard.edu>.

Table of Contents:

Course Title	1
Course Description:	2
Prerequisites:	2
Textbooks and Required Materials:	2
Major Course Topics:	2
Course Objectives: (list course objectives -- number them)	2
Description of Course Assessments: (narrative)	2-3
Course Grading and Evaluation:	4
Attendance and Participation Policy: (edit to fit course)	5
Student Disability Services:	6
Title IX/Discrimination & Harassment:	7
Statement of Diversity:	7
Plagiarism:	7
Kentucky Teacher Performance Standards: (Link to the standards and all 174 indicators)	7
Student Learning Outcomes:	10
Major Course Assessments Aligned with Standards:	11
Course Required P-12 Classroom Observation or Clinical Experiences and Assessments:	12
Course Assessments Related to Standards:	13
Course Assessment Serving as Education Preparation Program “Key Assessments” aligned to CAEP Accreditation:	14
Course Experiences or Assessments Addressing Learned Society (SPA) Standards:	17

Course Description:

Materials and methods of instruction in mathematics for grades P-5 with emphasis upon creative utilization of available materials and techniques. Field experiences in public schools and/or other

appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

Prerequisites:

MATH 205, MATH 206, MATH 308, ELED 365, ELED 345, ELED 355, ELED 407

Students must have senior standing with a grade of “C” or better in all 200 and 300 level courses with education and psychology prefixes. Successful completion of all Clinical I and II courses. Criminal check, TB test, and a health screening are required prior to any work in the schools.

Corequisites:

ELED 406 and ELED 465.

Textbooks and Required Materials:

Required Textbook Eleventh Edition:

Van de Walle, J. A., Karp, K. S., Bay-Williams, J. M. (2022). *Elementary and middle school mathematics: Teaching developmentally*. Boston, MA: Pearson.

Major Course Topics:

1. Teaching Mathematics in the Era of the NCTM Standards and Common Core Mathematics Content Standards and Standards for Mathematical Practice
2. Professional Noticing of Children: Noticing and Diagnosing Early Numeracy Skills
3. Exploring what it means to Know and Do Mathematics
4. Teaching through Problem Solving and Planning in the Problem-Based Classroom
5. Building Assessment into Instruction and Analyzing Student Data
6. Teaching Mathematics Equitably to All Children
7. Elementary School Mathematics Content:
 - Problem Solving, Basic Numeration, Basic Operations, Geometry, Fractional Numbers, Algebraic Thinking, Geometry

Course Objectives:

1. Design mathematics tasks and lessons that reflect appropriate consideration of student needs, objectives to be achieved, content to be taught, materials /technologies to be used, engaging instructional strategies to be utilized.
2. Implement mathematics tasks and lessons with consideration of pre-assessment results and modifications/differentiation demonstrated.
3. Analyze instruction and assessment cycle impact on students.
4. Exhibit enthusiasm and proficiency for the learning and teaching of mathematics.

Description of Course Assessments:

- **Figure Me Out Clinical Assignment:**
 - This introduction activity allows meaningful math opportunities for the pre-service teacher to create and the clinical students to solve. This activity provides students an opportunity to work collaboratively and independently on challenging mathematical questions. It also provides the pre-service teacher with opportunities to learn and assess the current level of achievement in the clinical classroom.
- **Personal Math Autobiography, Pre/Post:**
 - Write a reflection addressing portions of “mathematical life experiences” candidate feels are important to describing their mathematics trajectory, from K-college. Some ideas for what candidate may include are challenges, successes, instructional strategies that worked, what was learned about self that will apply to being a teacher of mathematics, etc. The goal is to be very reflective, personally, about the mathematics education journey. The Autobiography is completed

at the beginning as the pre-writing then again at the end as a post-reflection review of what was originally written with additional section on the learning from the Math Methods semester.

- **Math Student Interview – Diagnose, Intervention Planning, and Implementation (shared with ELED 465/SPED 480):**
 - Through Noticing Numeracy Now modules, I learn how to attend, interpret, and decide when professionally noticing and diagnosing early numeracy in children.
 - Design an interview of professional noticing and then develop an individual plan for intervention to help the student grow in numeracy skills over the semester.
 - Identify a student struggling with numeracy skills, interview the child using the diagnostic instruments, interpret the data, plan next steps, and implement the plan.
- **Design and Teach Mathematics Unit with Implemented Pre/Post Assessment and Formative Assessments (shared with ELED 465/SPED 480):**
 - Candidates develop and use an assessment system: pre/post assessment and formative assessments to determine P-5 student growth related to the math Learning Goals. Multiple assessment modes and approaches aligned with learning goals to assess student learning must be included before, during, after instruction. These assessments should be designed to measure student learning with reference to the goals and may include performance-based tasks, created responses, paper-and-pencil tasks, or personal communication.
 - Design and implement a pre/post assessment with students over the learning goals for the mathematics unit.
 - Design and implement a 2-day lesson plan based on the grade level mathematics standards to implement with their students.
 - Identify and list KAS for content taught in the unit. Design one or two learning goals for the unit and explain how the learning goal(s) address the KAS. A pre/post assessment will be used to determine P-5 student growth related to the Learning Goals.
- **Analysis of Pre/Post Assessment and Formative Assessment Data**
 - Analyze the pre/post and formative assessment data from the mathematics unit to determine how students were impacted with the instruction.
- **Math Parent/Guardian Interview: What is Important to you?**
 - Candidates choose a parent/guardian of a K-6 age student and ask questions about beliefs and experiences with their student learning mathematics
 - Analyze the interview, interfacing with the learning in the Math Methods course.
- **Problem Solving Investigation – Individual Discussion-Based Lesson/Presentation**
 - Using the problem-solving standards and Standards for Mathematical Practice, teacher candidates will choose a mathematics problem-solving task to present to a small group.
- **Mathematics Content Proficiency:**
 - **Diagnostic Mathematics Assessment (Pre-preparation):**
 - Assessment based on mathematics standards and /Praxis II content.
 - Pre/Post Assessment taken on mathematics content standards connected to state/national mathematics standards K-6 and Praxis II Content exam. Learn about mathematics content strengths and growth areas.
 - **Math Content Standards Exercises – Khan Academy**
 - Candidates work on Khan Academy mathematics skill building based on the PreAssessment on mathematics content. Plans are individualized with choice.
 - **Math Proficiency Assessment (Post-preparation):**
 - Assessment of key mathematics standards that teacher candidates need to be able to teach and prepare for the Praxis II exam.
 - **Math Professional Development Group Research/Lesson Presentation**
 - Using assigned math content/standards, teacher candidates will work together to research and develop a mathematics content professional development presentation/lesson.
 - Presentation/Lesson incorporates problem solving.

Course Grading and Evaluation:

Assessment Name	Point Value	DUE DATES
Tentative ELED 405 Scoring Information (460 points)		
Course Reading Responses (In and Out of Class; mini discussions)	55	Throughout Semester
Figure Me Out Introduction Clinical Assignment	30	Beginning
Personal Math Autobiography (beginning 10 pts. and end of sem. 10 pts.)	20	Beginning and End
*Mathematics Lesson #1. Lesson will reflect the KCAS/SMP and NCTM Standards from which the lesson has been developed.	*30	Beginning
*Mathematics Lesson #2. Lesson will reflect the KCAS/SMP and NCTM Standards from which the lesson has been developed.	*30	Beginning
*Math Student Interview – Diagnose, Intervention Planning, and Implementation (NNN)	*30	Throughout Semester
Math Content Standards Exercises – Khan Academy	20	Throughout Semester
Analysis of Student Learning Key Assessment #5B and QEP fulfillment	*80	End of Semester
Mathematics Proficiency Assessment– Content covered will be basic knowledge of fractions, decimals, percentages, measurement, and geometry. **Mastery required.	40	End of Semester
Math CLINICAL EDUCATION DISCUSSION BOARDS: 2 (10 points each)	20	Mid-semester
Math Parent/Guardian Interview: What is Important to You?	20	Mid-semester
Individual Problem Solving Presentation	25	Towards End
Math Content Research/Professional Development Presentation	30	Toward End
Class Professionalism: Disposition in ELED 405 (20 pts)	20	Throughout Semester
Tentative Clinical III Scoring Information (30 points)		
Field Professionalism	20	Throughout Semester
Professional Development – Attend PD at school or online	10	Throughout Semester
Total Points	500	

***Notes assignments that are part of both ELED 405 and ELED 465/SPED 480 course grades.**

****If Mastery of 75% or above is not achieved, the student must conference one on one with Mrs. Hussung or designee to set forth a plan for improving skills.**

The following represents the grade equivalent for accumulated points and percentage expectations:

Grading Scale:

Grading Scale	
Grade	Percent
A	93-100%
B	85-92%
C	77-84%
D	70-76%
F	≤69%

Attendance and Participation Policy:

Participation/Professionalism and Communication:

Students' professionalism grade includes completion of class assignments, reading all assigned materials, turning in assignments on time, maintaining contact with the instructor, and maintaining a positive professional attitude. Your instructor is happy to make an appointment (either in person or by phone) with any student to help with any assignment or answer any questions.

***** Professionalism**

The amount of professionalism points earned will depend upon the following standards being met:

- (1) Since the development of professional behavior is one of the course goals, attendance is stressed. Absences and late arrivals, for whatever reasons, count as time taken from the course. If you are tardy, it is your responsibility to see the instructor after class to ensure that the recorded absence is changed to tardy. **Missing more than two class days will result in a professionalism grade of 0 points.** Arriving on time, remaining on task, being prepared, and class participation are part of your responsibilities.
- (2) Students are expected to be in the classroom on time and ready to work.
- (3) Responses or activities completed in class may not be made up. Respect for the view of each member of the learning community and the use of professional standards of behavior are expected. **Use of cell phones, calling or texting, is prohibited in the classroom.** If you have an emergency and need to use your phone, you must step out of the classroom before using.

Extra Assignments: Faculty members may assign extra work for students who have missed any part of a class or clinical to help the student regain what was lost during their absence if the faculty member feels this is appropriate.

Emails to Instructor:

1. ALL emails should be to both of your instructors and MUST be in the following format:

ELED 405, First Initial, Last Name, Topic

Emails without this format will (gently) be returned to you to revise the subject. We are not trying to be rude! Our email programs sort mail according to the class number. If you do not use this standard email format, your message may get lost and many have been lost in past courses. Please help us with this!

2. Please set your email options such that when you reply to any message, it will include the original message. When you email me, my email software will retain your original message when I reply. If you reply back, your message should retain both your original message and my response. This helps to remind me of our ongoing conversations. Thanks!!
3. Remember that your emails are professional communication with your instructor.

Submission of Assignments:

1. There will be various methods used for class discussions.

2. The preferred method for submission of your assignments is to upload your assignment file through BlackBoard.

- a. View the assignment description under Assignments in our BlackBoard course.
- b. Click on the link “View/Complete Assignment: Assignment Name” under the assignment description.
- c. Type a comment to your instructor about your assignment. It will not submit if you do not type something.
- d. Click “Browse” and locate your assignment file.
- e. If you have another file to upload, click “Add Another File” and Browse to locate your file. Be sure to add all files that you need to submit before you click Submit. You cannot come back to this screen.
- f. Click “Submit” to send your file to your instructor.

3. Required papers and projects are due on the dates and times provided in class. Although late papers will be accepted, the grade for these materials will be reduced 10% for each calendar day (counts as late even if it is 5 minutes late for electronic submissions) that they are received late unless otherwise specified by the instructor. After a week late, the student will receive a ‘0’ on the assignment. More than one missing assignment will constitute an INCOMPLETE in the course as a whole.

Naming Files:

In general, all files submitted should begin with your last name, then a period, then the module code, and a description of the assignment. For example, “Hussung.PersonalMathAutobiography.doc”.

Class Time Management:

Management of your personal “class time” is one of the most difficult issues for students. Most face-to-face classes meet three hours a week and students are expected to spend up to six hours per week in class preparation and assignments. Therefore, you can expect to spend up to nine hours per week on any university course whether face-to-face or online. (Travel time has been a major consideration for many of you in face-to-face classes.) It is not advisable to procrastinate not only because of the time involved but the technical issues you may face and the time required to teach your lesson.

All students are strongly encouraged to get the COVID-19 vaccine. Based on the latest CDC and KY public health guidance, WKU will require the wearing of masks while indoors for all staff and student. Persons not fully vaccinated must quarantine if exposed to someone with Covid-19. Accommodations can be requested in special cases through the Student Accessibility and Resource Center (SARC): [270-745-5004](tel:270-745-5004) (voice), [270-745-3030](tel:270-745-3030) (TTY), or [270-288-0597](tel:270-288-0597) (video).

All students must immediately report a positive Covid-19 test result or close contact with a person who has tested positive to the Covid-19 Assistance Line at 270-745-2019. The assistance line is available to answer questions regarding any Covid-19 related issue. This guidance is subject to change based on requirements set forth by public health agencies or the office of the governor. Please refer to the Healthy on the Hill website for the most current information. www.wku.edu/healthyonthehill

Student Disability Services:

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

Title IX/Discrimination & Harassment:

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's [Sex and Gender-Based Discrimination, Harassment, and Retaliation](#) (#0.070) and [Discrimination and Harassment Policy](#) (#0.2040). Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Deborah Wilkins, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121. Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are "Responsible Employees" of the University and MUST report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's [Counseling and Testing Center](#) at 270-745-3159.

Statement of Diversity:

Western Kentucky University is committed to empowering its campus community to embrace diversity by building equitable and inclusive learning, working, and living environments. At the heart of our mission, we seek to provide holistic education and employment experiences that prepare students, faculty, and staff to become effective scholars, contributors, and leaders in our diverse and evolving communities. To that end, this classroom is an inclusive space where all participants are welcomed and treated with respect, dignity, and acceptance. Immoral, illegal, or unethical behavior and/or communication will not be tolerated.

While the majority of students are comfortable with the pronoun sets "he/him" or "she/her," there is a growing population who prefer "they/them" pronouns, or another pronoun sets like ze/zir, per/pers, ey/em, or xe/xem, to avoid binary gender association. Participants in this course may choose to go by the pronoun sets with which they identify and are most comfortable. In addition to pronouns, all students have the right to indicate their preferred first name on TOPNET; this will appear on class rosters. If you did not specify your preferred name on TOPNET, please let me know what name and pronouns I should use for you. Student's chosen names and pronouns will be respected at all times in the classroom.

Plagiarism:

To represent written work taken from another source as one's own is plagiarism. Plagiarism is a serious offense. The academic work of a student must be the student's own. One must give any author credit for source material borrowed from another. To lift content directly from a source without giving credit is a flagrant act. To present a borrowed passage without reference to the source after having changed a few words is also plagiarism. For more information about the [Process for Academic Dishonesty](#)

Kentucky Teacher Performance Standards: [\(Link to the standards and all 174 indicators\)](#)

Teacher Standards for Educator Preparation and Certification established June 30, 2018. These standards shall be used in the evaluation and assessment of a teacher for initial or advanced certification and for the accreditation of educator preparation providers.

NOTE INDICATORS in each cell below:

KTPS with INTASC Details/Indicators -- Core Curriculum Alignment	ELED 345	SPED 335	LTCY 320	ELED 355	ELED 365	ELED 407	LTCY 420	ELED 405	ELED 406	ELED 465	EDU 489
Standard 1. Learner Development: The teacher shall understand how learners grow and develop, recognizing that patterns of learning and development vary								X a, b, c, d, e, g, h, i, j, k			

individually within and across the cognitive, linguistic, social, emotional, and physical areas, and shall design and shall implement developmentally appropriate and challenging learning experiences.											
Standard 2. Learning differences: The teacher shall use the understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.								X d, h, j, l, n			
Standard 3. Learning environments: The teacher shall work with others to create environments that: Support individual and collaborative learning; and Encourage positive social interaction, active engagement in learning, and self-motivation.								X a, g, h, m, p, q, r			
Standard 4. Content knowledge: The teacher shall: Understand the central concepts, tools of inquiry, and structures of the discipline he or she teaches; and Create learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content.								X a, b, d, e, f, g, h, k, l, m, n, o, p			

Standard 5. Application of content: The teacher shall understand how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues.								X b, c, d, f, l, m, n, o			
Standard 6. Assessment: The teacher shall understand and use multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the educator's and learner's decision making.								X a, b, c, d, e, f, g, i, j, k, l, m, r, t			
Standard 7. Planning for Instruction: The teacher shall plan instruction that supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.								X a, b, c, d, g, j, k, l			
Standard 8. Instructional strategies: The teacher shall understand and use a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections and to build skills to apply knowledge in meaningful ways.								X b, e, f, g, h, i, j, l, r			

Standard 9. Professional learning and ethical practice: The teacher shall engage in ongoing professional learning, shall use evidence to continually evaluate his or her practice, particularly the effects of his or her choices and actions on others, such as learners, families, other professionals, and the community, and shall adapt practice to meet the needs of each learner.								X a, b, g, h, l,			
Standard 10. Leadership and collaboration: The teacher shall seek appropriate leadership roles and opportunities to: Take responsibility for student learning; Collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth; and Advance the profession.								X e, h, i, n, o, r, s, t			

Student Learning Outcomes:

School of Teacher Education Student Learning Outcomes								
Graduates of the WKU School of Teacher Education Initial Preparation Programs are able to:								
Courses	1. Demonstrate content knowledge in the academic disciplines	2. Apply the foundational principles of learning and teaching	3. Exhibit teaching competence in a clinical environment	4. Select, administer, and analyze results of formative and summative assessments	5. Identify, evaluate, and implement individualized instruction	6. Apply content knowledge, pedagogical skills, and technology to instructional practice	7. Identify, evaluate, and implement literacy practices	8. Display the dispositions of a professional educator
ELED 345								
SPED 355								
LTCY 320								
ELED 355								
ELED 365								

ELED 407								
LTCY 420								
ELED 405	I	D	D	D	D	R		D
ELED 406								
ELED 465								
EDU 489								

I - Initial, R-Reinforced, D-Demonstrated, M-Mastered

Major Course Assessments Aligned with Standards:

Major Course Assessments	Course Objectives	SPA Standard(s): CAEP/ELED	KY Teacher Performance Standards/INTASC	Overall Program Student Learning Outcomes (number)
Clinical Experiences and Assessments				
Math Student Interview – Diagnose, Intervention Planning, and Implementation (COMMON ASSESSMENT) ☑ Clinical; <u>8</u> hours	Obj. #1, 2, 3	CAEP/ELED: 1.a, 3.a, 4.a, 4.g	KTPS Std. # 1: a, h, i, j, k 2: h., n 3: r 4: e, k, l, q 5.d 7: a, b, c	SLO #2, 3, 5
Design and Teach Mathematics Unit with Pre/Post Assessment (COMMON ASSESSMENT) ☑ Clinical; <u>14</u> hours	Obj. #1,2,3,5,6, 8	CAEP/ELED: 3.c, 3.d, 4.b, 4.c, 4.d, 4.e, 4.f, 5.a	KTPS Std. # 1: a, b, e, g, h, i, j, k 2: d, h, j, l, n 3: g, h, m, p, q, r 4: a, b, d, e, f, g, h, k, l, m, n, q 5: c, d, l, m, n 6: i, m 7: a, b, c, g, j, k 8: e, f, g, h, i, j, l, r 9: h, l 10: e, n, o	SLO #1,2,3,4
Math Parent/Guardian Interview: What is Important to you? (COMMON ASSESSMENT) ☑ Clinical; <u>4</u> hours	Obj. #4	CAEP/ELED: 1.c	KTPS Std. # 1: c, k, j 3: a, r	SLO #8
Course Experiences and Assessments				

Personal Math Autobiography, Pre/Post <input type="checkbox"/> Clinical; ___ hours	Obj. #4	CAEP/ELED: 5.b	KTPS Std. # 10: s, t	SLO #8
Analysis of Pre/Post Assessment and Formative Assessment Data (KEY ASSESSMENT) <input type="checkbox"/> Clinical; ___ hours	Obj. #3	CAEP/ELED: 3.b	KTPS Std. # 6: a, b, c, g, j, k, l, r, t 7: d, l 9: g, h, l	SLO #4
Problem Solving Investigation – Individual Discussion-Based Lesson/Presentation <input checked="" type="checkbox"/> Clinical; <u>4</u> hours	Obj. #1,4	CAEP/ELED: 2.b	KTPS Std. # 3: a, g, h, m, p, q, r 4: g, p 5: b, c, d, f, m, n, o 7: a, g	SLO #1,2,6,8
Mathematics Content Proficiency: <ul style="list-style-type: none"> • Diagnostic Mathematics Assessment (Pre-) • Math Content Standards Exercises – Khan Academy • Math Proficiency Assessment (post): <input type="checkbox"/> Clinical; ___ hours	Obj. #4	CAEP/ELED: 2.b	KTPS Std. # 4.n 9.a, b 10.t	SLO #1
Math Professional Development Group Research Lesson/Presentation (COMMON ASSESSMENT) <input checked="" type="checkbox"/> Clinical; <u>8</u> hours	Obj. #1,2,4	CAEP/ELED: 2.b	KTPS Std. # 3: g, h, m, q, r 4: o, p 5: c, d, l, m, n 6.i 7.g 8: g, h, i, r 10: e, h, i, n, o, r	SLO #1,2,3,6,8

ADDITIONAL COURSE INFORMATION AND EXPERIENCE RELATED TO EDUCATION PREPARATION
(EPSB Program Level Requirements)

Course Required P-12 Classroom Observation or Clinical Experiences and Assessments:

(List assessment or experience if this course includes the criteria. If none, put “N/A” and delete the table below. For others, use the table below to provide the number of observation hours and check each type of experiences candidates have during those hours. Note: The table categories are those that the KY EPSB requires each program to have as outlined by **16 KAR 5:040 Section 5(3).**)

Total Number of Hours: minimum of 40	
EPSB Required Candidate Experience Types - 16 KAR 5:040 Section 5(3)	
(a) Engagement with diverse populations of students which include:	
1. Students from a minimum of two (2) different ethnic or cultural groups of which the candidate would not be considered a member;	X
2. English language learners;	X

3. Students with disabilities; and	X
4. Students from the following grade levels:	
• Elementary	X
• Middle School	
• Secondary	
(b) Observation in schools and related agencies, including:	
1. Family Resource Centers; or 2. Youth Service Centers	
(c) Student tutoring	X
(d) Interaction with families of students;	X
(e) Attendance at school board and school-based council meetings;	X
(f) Participation in a school-based professional learning community; and	X
(g) Opportunities to assist teachers or other school professionals.	X

Course Assessments Related to Standards:

- [The Kentucky Academic Standards \(KAS\)](#)
- [The Kentucky P-12 Curriculum Framework](#)
- [P-12 Assessment System to Guide Instruction](#)

Prior to graduation, every teacher candidate must be fluent in the Kentucky Academic Standards (KAS) for their content area and for literacy, must be able to deconstruct the standards into learning targets, and must be able to create formative assessments. (See Common Lesson Planning Template at end of document.) Provide descriptive evidence of meeting the following expectations of EPSB:

EPSB Questions to Address regarding:	Course Assessment and HOW Assessed -- Include Criteria Demonstrating Depth of Knowledge of Candidate
<ul style="list-style-type: none"> • KAS/KECS • KY P-12 Curriculum Framework • P-12 Assessment System to Guide Instruction 	
1. How does the EPP measure a candidate's knowledge and understanding of the Kentucky Academic Standards? How does the candidate demonstrate a deep understanding of a system-wide process for designing curriculum aligned to the KAS at the school or district level?	Diagnostic and Proficiency Math Assessments AND Individualized Math Content Standards Exercises via Khan Academy: Practice on mathematics content standards to strengthen personal skills. Learn about how important individualized instruction via an online platform can be.
2. Briefly describe how candidates use the Kentucky Academic Standards and appropriate assessment data to guide instruction.	Math Lesson Unit Design and Implementation-- Learning Goals & Pre/Post Assessment: Identify and list KAS for content taught in the unit. Design one or two learning goals for the unit and explain how the learning goal(s) address the KAS. A pre/post assessment will be used to determine P-5 student growth related to the Learning Goals.
3. Describe how candidates use the Kentucky Academic Standards in lesson plans? (To what extent did the EPP provide evidence of candidates' use of the KAS framework in lesson plans?)	Math Lesson Unit Design and Implementation-- Learning Goals & Pre/Post Assessment: Identify and list KAS for content taught in the unit. Design one or two learning goals for the unit and explain how the learning goal(s) address the KAS. A pre/post assessment will be used to determine P-5 student growth related to the Learning Goals.
4. Provide evidence of candidate's abilities to create and use formative and summative assessments to guide instruction toward P12	Pre/Post and Formative Assessment Design for Math "Unit": Candidates develop and use an assessment system: pre/post assessment and formative assessments to determine P-5 student growth related to the math Learning Goals. Multiple

student mastery of the Kentucky Academic Standards.	assessment modes and approaches aligned with learning goals to assess student learning must be included before, during, after instruction. These assessments should be designed to measure student learning with reference to the goals and may include performance-based tasks, created responses, paper-and-pencil tasks, or personal communication.
5. How does the candidate demonstrate understanding of how a school/district implements the curriculum at the school and classroom level?	Math Lesson Unit Design and Implementation: Learning Goals & Pre/Post Assessment: Candidates collaborate with the clinical setting teachers to identify and list KAS for content taught in the unit.
6. How do candidates learn about the state's assessment system for student learning and how that influences their instruction and assessment of their students?	Pre/Post and Formative Assessment Design for Math "Unit": Candidates develop and use an assessment system: pre/post assessment and formative assessments and learn about the connection to how the state's assessment system is multi-faceted -- especially in how the students are assessed with different types of questions. Analysis of Student Learning of Math Content: Analyze the pre-, formative, and post- math assessment data from the mathematics unit to determine how students did with the instruction.

Course Assessment Serving as Education Preparation Program "Key Assessments" aligned to CAEP Accreditation:

(Please name and briefly describe the assessment and check which category in the table below the assessment represents. If none, put "N/A.")

CAEP Key Assessment Areas	Assessment and Description
Assessment #1: Content Assessment	
Assessment #2: Other Assessment of Content Knowledge	
Assessment #3: Assessment of Professional Capabilities	
Assessment #4: Clinical Experiences Measure of Teaching Proficiency	
Assessment #5: Measure of Candidate Assessment Proficiencies	5B: Analysis of Student Learning
Assessment #6: Candidate ability to diagnose and prescribe for personalized Student Learning	
Assessment #7: Application of Content Knowledge and Pedagogical Skills (Instructional Practice)	
Assessment #8: Assessment of Literacy Outcomes	
Assessment #9: Dispositions	
Assessment #10: Exit Survey	

Course Experiences or Assessments Addressing Learned Society (SPA) Standards:

(Please refer to your EPSB Program Review Document SPA Table to see what you and your program faculty have determined takes place in your course related to meeting SPA standards. Provide those standard numbers and description/titles below and briefly describe the course experiences and assessments that prepare candidates in this area. NOT necessary for CORE -- delete this section if CORE COURSE.)

SPA Standard # and Description CAEP 2018 Elementary Teacher Standards	Course Experiences and Assessments -- note standard AND indicator alignment
--	--

<p>STANDARD 1 – Understanding and Addressing Each Child’s Developmental and Learning Needs</p> <p>1.a – Candidates use their understanding of how children grow, develop and learn to plan and implement developmentally appropriate and challenging learning experiences within environments that take into account the individual strengths and needs of children.</p> <p>1.b – Candidates use their understanding of individual differences and diverse families, cultures, and communities to plan and implement inclusive learning experiences and environments that build on children’s strengths and address their individual needs.</p> <p>1.c – Candidates work respectfully and reciprocally with families to gain insight into each child in order to maximize his/her development, learning and motivation.</p>	<p>Math Student Interview – Diagnose, Intervention Planning, and Implementation (CAEP/ELED 1.a)</p> <p>Math Parent/Guardian Interview: What is Important to you? (CAEP/ELED 1.c)</p>
<p>STANDARD 2 – Understanding and Applying Content and Curricular Knowledge for Teaching</p> <p>Candidates demonstrate and apply understandings of major concepts, skills, and practices, as they interpret disciplinary curricular standards and related expectations within and across literacy, mathematics, science, and social studies.</p> <p>2.a – Candidates demonstrate and apply understandings of the elements of literacy critical for purposeful oral, print, and digital communication.</p> <p>2.b - Candidates demonstrate and apply understandings of major mathematics concepts, algorithms, procedures, applications and mathematical practices in varied contexts, and connections within and among mathematical domains.</p> <p>2.c – Candidates demonstrate and apply understandings and integration of the three dimensions of science and engineering practices, cross-cutting concepts, and major disciplinary core ideas, within the major content areas of science.</p> <p>2.d - Candidates demonstrate understandings, capabilities, and practices associated with the central concepts and tools in Civics, Economics, Geography, and History, within a framework of informed inquiry.</p>	<p>Diagnostic and Proficiency Math Assessments (CAEP/ELED 2.b)</p> <p>Individualized Khan Academy Mathematics Skill Development (CAEP/ELED 2.b)</p> <p>Mathematics Problem-Solving Individual Lesson/Presentation (CAEP/ELED 2.b)</p> <p>Mathematics Professional Development Group Research Lesson/Presentation (CAEP/ELED 2.b)</p>

<p>STANDARD 3 – Assessing, Planning, and Designing Contexts for Learning</p> <p>Candidates assess students, plan instruction and design classroom contexts for learning. Candidates use formative and summative assessment to monitor students' learning and guide instruction. Candidates plan learning activities to promote a full range of competencies for each student. They differentiate instructional materials and activities to address learners' diversity. Candidates foster engagement in learning by establishing and maintaining social norms for classrooms. They build interpersonal relationships with students that generate motivation, and promote students' social and emotional development.</p> <p>3.a – Candidates administer formative and summative assessments regularly to determine students' competencies and learning needs.</p> <p>3.b – Candidates use assessment results to improve instruction and monitor learning.</p> <p>3.c – Candidates plan instruction including goals, materials, learning activities and assessments.</p> <p>3.d – Candidates differentiate instructional plans to meet the needs of diverse students in the classroom.</p> <p>3.e – Candidates manage the classroom by establishing and maintaining social norms and behavioral expectations.</p> <p>3.f – Candidates explicitly support motivation and engagement in learning through diverse evidence based practices.</p>	<p>Diagnostic and Proficiency Math Assessment (CAEP/ELED 3.a)</p> <p>Math Student Interview – Diagnose, Intervention Planning, and Implementation (CAEP/ELED 3.a)</p> <p>Analysis of Pre/Post Assessment and Formative Assessment Data (CAEP/ELED 3.b)</p> <p>Teach Mathematics Unit with Pre/Post Assessment and Formative Assessments (CAEP/ELED 3.c and 3.d)</p>
<p>Standard 4 – Supporting Each Child's Learning Using Effective Instruction.</p> <p>Candidates make informed decisions about instruction guided by knowledge of children and assessment of children's learning that result in the use of a variety of effective instructional practices that employ print, and digital appropriate resources. Instruction is delivered using a cohesive sequence of lessons and employing effective instructional practices. Candidates use explicit instruction and effective feedback as appropriate, and use whole class discussions to support and enhance children's learning. Candidates use flexible grouping arrangements, including small group and individual instruction to support effective instruction and improved learning for every child.</p> <p>4.a – Candidates use a variety of instructional practices that support the learning of every child.</p> <p>4.b – Candidates teach a cohesive sequence of lessons to ensure sequential and appropriate learning opportunities for each child.</p> <p>4.c – Candidates explicitly teach concepts, strategies, and skills, as appropriate, to guide learners as they think about and learn academic content.</p> <p>4.d – Candidates provide constructive feedback to guide children's learning, increase motivation, and improve student engagement.</p> <p>4.e – Candidates lead whole class discussions to investigate specific content, strategies, or skills, and ensure the equitable participation of every child in the classroom.</p> <p>4.f – Candidates effectively organize and manage small group instruction to provide more focused, intensive instruction and differentiate teaching to meet the learning needs of each child.</p>	<p>Math Student Interview – Diagnose, Intervention Planning, and Implementation (CAEP/ELED 4.a and 4.g)</p> <p>Teach Mathematics Unit with Pre/Post Assessment and Formative Assessments (CAEP/ELED 4.b, 4.c, 4.d, 4.e, 4.f)</p>

4.g – Candidates effectively organize and manage individual instruction to provide targeted, focused, intensive instruction that improves or enhances each child's learning.	
STANDARD 5- Developing as a Professional Candidates promote learning and development of every child through participation in collaborative learning environments, reflective self-study and professional learning, and involvement in their professional community. 5.a – Candidates work collaboratively with colleagues, mentors, and other school personnel to work toward common goals that directly influence every learner's development and growth. 5.b – Candidates design and implement professional learning activities based on ongoing analysis of student learning; self-reflection; professional standards, research and contemporary practices; and standards of ethical professional practice. 5.c - Candidates participate in peer and professional learning communities to enhance student learning.	Teach Mathematics Unit with Pre/Post Assessment and Formative Assessments (CAEP/ELED 5.a) Personal Math Autobiography, Pre/Post (CAEP/ELED 5.b)

Course Experiences or Assessments Addressing ILA (literacy) Standards: (to the indicator level)

(Please refer to your course and the ILA standards below to see what you and your program faculty have determined takes place in your course related to meeting ILA (literacy standards.)

International Literacy Association Standard # and Description	Course Experiences and/or Assessments
STANDARD 1: FOUNDATIONAL KNOWLEDGE Candidates demonstrate knowledge of the major theoretical, conceptual, and evidence-based foundations of elementary/intermediate literacy and language and the ways in which they interrelate.	Math Student Interview – Diagnose, Intervention Planning, and Implementation (ILA 1.3 and 1.4)
STANDARD 2: CURRICULUM AND INSTRUCTION Candidates apply foundational knowledge to critically examine elementary/intermediate literacy curricula; design, adapt, implement, and evaluate instructional approaches and materials to provide a coherent and motivating literacy program that addresses both general and discipline-specific literacy processes	Math Student Interview – Diagnose, Intervention Planning, and Implementation (ILA 2.4) Teach Mathematics Unit with Pre/Post Assessment and Formative Assessments (ILA 2.4)
STANDARD 3: ASSESSMENT AND EVALUATION Candidates understand, select, and use appropriate assessments to gather evidence on elementary/intermediate students' language acquisition and literacy development for instructional and accountability purposes.	
STANDARD 4: DIVERSITY AND EQUITY Candidates examine their own culture and beliefs; set high expectations for their students; learn about and appreciate the cultures of their students, families, and communities to inform instruction.	Math Parent/Guardian Interview: What is Important to you? (ILA 4.1 and 4.4) Math Student Interview – Diagnose, Intervention Planning, and Implementation (ILA 4.2 and 4.3) Teach Mathematics Unit with Pre/Post Assessment and Formative Assessments (ILA 4.2 and 4.3)
STANDARD 5: LEARNERS AND THE LITERACY ENVIRONMENT Candidates apply knowledge of learner development and learning differences to create a positive, literacy-rich learning environment anchored in digital and print literacies.	

STANDARD 6: PROFESSIONAL LEARNING AND LEADERSHIP Candidates are lifelong learners who reflect upon practice; use ongoing inquiry to improve their professional practice; advocate for students and their families to enhance students' literacy learning.	Teach Mathematics Unit with Pre/Post Assessment and Formative Assessments (ILA 6.3)
--	--

School of Teacher Education Lesson Plan Template



Name _____		Date of Observation _____
Ages/Grades of Students _____		#Number of Students in Class _____
# of Students having IEP/504 _____	# of Gifted Students _____	# of Students having LEP _____
Lesson Title: _____		
1. Context: Describe the Students for which this Lesson is Designed Identify your students' backgrounds, special needs, cultural differences, interests, and language proficiencies. <i>Use student initials for specific information about students in terms of learning strategies, behavior strategies. Give examples of what you know about students' interests, outside activities, etc., which could be incorporated into lesson plan. Also, be specific about student skills and knowledge. Describe racial, economic diversity in class.</i>		
2. Learning Target(s)/Objectives <i>Provide 1-2 learning targets/objectives and 1-2 connected Kentucky Early Childhood Standards and Benchmarks for each component listed in this section.</i> <ol style="list-style-type: none"> Previous lesson's learning target(s)/objective(s); connect each target/objective to the appropriate state curriculum/content area standard(s) and benchmark(s) AND to the appropriate NCTM, NGSS or NAAEE standard(s) Current lesson's learning target(s)/objective(s); connect each target/objective to the appropriate state curriculum/content area standard(s) and benchmark(s) AND to the appropriate NCTM, NGSS or NAAEE standard(s) Next lesson's learning target(s)/objective(s); connect each target/objective to the appropriate state curriculum/content area standard(s) and benchmark(s) AND to the appropriate NCTM, NGSS or NAAEE standard(s) 		
3. Students' Baseline Knowledge and Skills Describe and include the pre-assessment(s), including the developmental continuum used to establish students' baseline knowledge and skills for this lesson.		
4. Formative Assessment Describe and include the formative assessment(s) and developmental continuum(s) to be used to measure student performance during this lesson. <i>The formative assessment(s) and developmental continuum(s) should be directly connected to the current learning target/objective. The description should include the method used for collecting data.</i>		
5. Resources		

<p>Identify the resources and assistance available to support your instruction and facilitate students' learning. This includes links to technology, homework, exit or bell ringer slips, readings, etc. Be specific if there is an aide in the classroom and their role.</p>
<p>6. Lesson Procedures Describe the sequence of strategies/activities and/or assessments will be used to scaffold instruction, engage your students. facilitate attainment of the lesson objective(s), and promote higher order thinking. Within this sequence, be sure to describe how the instruction will be differentiated to meet your students' needs, interests, and abilities. <i>Components of this section should include: 1. Connection to prior learning, 2. Frontloading of expected learning/outcomes, 3. Introduction of new materials or new ways of using materials, 4. Step by step instructions on lesson implementation, 5. The role of other adults involved in the lesson, 6. Scaffolded and/or differentiated instruction to meet the needs, interests and abilities of all students, 7. Detailed script of teacher talk and questioning embedded throughout the procedures, 8. Plan for providing feedback to students, 9. Closure of what took place, what was learned and next steps to connect to next lesson's learning.</i></p>
<p>7. Reference Identify the evidenced based resource(s) this activity was retrieved from using APA format.</p>
<p>8. Watch for ----- Identify anything that you would like specifically observed during this lesson. <i>What area(s) are you seeking specific feedback on for teacher performance as to improve student outcomes? (i.e. including all students, engaging students, promoting higher order thinking, higher level questioning, collecting assessment data, managing transitions, connecting to prior learning, etc.)</i></p>