# George Mason University College of Education and Human Development Teaching Culturally & Linguistically Diverse and Exceptional Learners

EDUC 514.6F1: Teaching Elementary Science in International Schools 3 credits, Summer 2019 (CRN 42425)

July 5 – 16, 8:30 a.m. – 3:20 p.m.,

Mason Global Center, 1302B (July 5 only); Thompson 2020 (July 8 - 15); TBD (July 16)

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#### **Prerequisites/Corequisites**

Admission to GSE and enrollment in the TCLDEL program. Recommended prerequisites: EDUC 511 and EDRD 515.

#### **University Catalog Course Description**

Covers the theory and practices of effective teaching of PK-6 science in international schools. Uses laboratory and discovery techniques to design essential science components and integrate them with other disciplines. Introduces students to the design and implementation of activities for developing concepts, solving problems, and strengthening thinking skills in PK-6 science. Requires 20 hours of PK-6 classroom fieldwork.

#### **Course Overview**

Explores the theory and practices of effective teaching of PK-6 science in international schools

#### **Course Delivery Method**

Course delivery will be accomplished in a variety of ways in order to meet the needs and styles of all learners. Methods of instruction will include:

- Presentations assisted by Power Point
- Whole group and small group discussions
- Cooperative learning groups
- Student presentations
- Field projects
- Video presentations
- Textbooks and journal articles
- Blackboard

#### **Learner Outcomes or Objectives**

This course is designed to enable students to do the following:

- 1. Understand how children learn and develop
- 2. Understand the central concepts, tools of inquiry, applications, and structures of science
- 3. Understand how students differ in their approaches to learning
- 4. Understand the importance of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation

- 5. Plan instruction based upon knowledge of subject matter, students, the community, and curriculum goals
- 6. Understand the uses of formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner
- 7. Be a reflective practitioner who continually evaluates the effects of his/her choices and actions on others and who actively seeks out opportunities to grow professionally
- 8. Foster relationships with school colleagues, parents, and agencies in the larger community to support students' learning and well-being
- 9. Develop an understanding and appreciation of the organization and excitement of science
- 10. Build a repertoire of science teaching and assessment strategies by reading, writing, observing, participating and reflecting on the teaching of science
- 11. Develop strategies to help students to become scientifically literate, think critically and creatively, and see relationships among science, technology and society
- 12. Create and teach a unit plan (PYP) that contains science lessons/activities that include:
  - Learning experiences that make aspects of content meaningful to students (*National Standards*, *Constructivism*, and Experimental Design)
  - Learning opportunities that support students intellectual, social, and personal development (Science Process Skills, Constructivism, and Cooperative Learning)
  - o Instructional opportunities that are adapted to diverse learners (*Multiple Intelligences and Science Integration*)
  - o Instructional strategies to encourage students' development of critical thinking, problem solving, and performance skills (*Problem Solving & Thinking Skills*)
  - o A learning environment that encourages positive social interaction, active engagement in learning, and self-motivation (*Hands-On Learning and Cooperative Learning*)
  - Foster active inquiry, collaboration, and supportive interaction in the classroom (*Questioning Strategies, Classroom Management, and Cooperative Learning*)
  - o Formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner (*Assessment and Evaluation*)
  - o Integration of science with other subject areas
  - Highlight safety issues
  - o Real world application
  - o A cohesive unit of study
  - Strengthening existing knowledge of science content through hands-on investigations, reading, writing, and communicating
  - Working cooperatively with peers to teach and discuss science and science teaching
  - o Identifying past, present, and future movements in science education

#### **Professional Standards (GSE / ACEI / INTASC)**

# InTASC (Interstate Teacher Assessment and Support Consortium) Standards and CAEP (Council for the Accreditation of Educator Preparation) Standards

This course contains at least one Common Assessment developed by the College of Education and Human Development to assess our candidates' performance on nationally accepted standards for beginning teachers (InTASC) and our programs' performance on national accreditation standards (CAEP).

Upon completion of this course, students will have met the following professional standards:

# **Graduate School of Education Goals Diversity**

• Infuse diversity into the experience, training, and practice of students, faculty, and staff

- Provide support and mentoring of minority students, faculty, and staff
- Enhance recruitment and retention of minority students, faculty, and staff
- Ensure that diverse issues are reflected in curriculum and syllabi
- Ensure that diverse issues are reflected in GSE partnerships with schools, communities, and families

#### Reflective, Research-based Practice

• Encourage reflective and research-based practice for GSE faculty and for our students in their own practice

#### Relationship to the following ACEI Standards: www.acei.org

- 1.0 Development, Learning and Motivation
- 2.2 Science Content and Process
- 2.6 Health Education
- 3.1 Integrating and Applying Knowledge for instruction
- 3.2 Adaptation to Diverse Learners
- 3.4 Active Engagement in Learning
- 4.0 Assessment
- 5.1 Professionalism

#### **Correlation Charts:**

INTASC Standards for Beginning Teacher Licensing and Development to EDUC 514 Course

INTASC Standards	Course Topics	Class Assignments
Principle 1: Content	Constructivism	Unit Plan
The teacher understands the central	Hands-On Learning	Evaluation of Teacher
concepts, tools of inquiry, applications,	Science Process Skills	Guides
and structures of science and of the	National Science Standards	Articles & Readings
science disciplines he or she teaches	Inquiry/Questioning Strategies	Field Experience
and can create learning experiences	Assessment & Evaluation	
that make these aspects of content	Problem Solving & Thinking Skills	
meaningful to students.	Multiple Intelligences	
	Experimental Design	
	Science Integration	
	Science Connections- Technology	
Principle 2: Student Development	Constructivism	Unit Plan
The teacher understands how children	Hands-On Learning	Evaluation of Teacher
learn and develop and can provide	Science Process Skills	Guides
learning opportunities that support	Inquiry/Questioning Strategies	Articles & Readings
their intellectual, social, and personal	Assessment & Evaluation	Field Experience
development.	Problem Solving & Thinking Skills	
	Multiple Intelligences	
	Cooperative Learning	
Principle 3: Student Diversity	Assessment & Evaluation	Unit Plan
The teacher understands how students	Problem Solving & Thinking Skills	Evaluation of Teacher
differ in their approaches to learning	Multiple Intelligences	Guides
and creates instructional opportunities	Cooperative Learning	Field Experience
that are adapted to diverse learners	Science Integration	Articles & Readings
	Science Connections - Technology	
Principle 4: Instructional Variety	Science Process Skills	Unit Plan
The teacher understands and uses a	Inquiry/Questioning Strategies	Evaluation of Teacher
variety of instructional strategies to	Problem Solving & Thinking Skills	Guides
encourage students' development of	Multiple Intelligences	Field Experience
critical thinking, problem solving, and	Experimental Design	Articles & Readings
performance skills.	Cooperative Learning	II ' DI
Principle 5: Learning Environment	Constructivism	Unit Plan
The teacher uses an understanding of	Hands-On Learning	Field Experience
individual and group motivation and	Science Process Skills	Articles & Readings

behavior to create a learning	Inquiry/Questioning Strategies	
environment that encourages positive	Multiple Intelligences	
social interaction, active engagement	Science Safety	
in learning, and self-motivation.	Classroom Management	
	Cooperative Learning	
	Science Connections - Technology	

**PYP Practitioner Award Programme Requirements** 

Course	Curriculum	Teach/Learn	Assessment	Professional
Teaching Elementary Science in	A, B, C, D	E, F, G, H	I, J, K, L, M	N, O
International Schools				

#### **Required Text**

Contant, T. L., Bass, J. L., Tweed, A. A., & Carin, A. A. (2017). *Teaching science through inquiry-based instruction: 13<sup>th</sup> Edition.* Saddle River, NJ: Pearson.

#### **Recommended Texts & Resources:**

Achieve, Inc. (2013). *Next generation science standards*. Retrieved from <a href="http://www.nextgenscience.org/print/121">http://www.nextgenscience.org/print/121</a> (Note: Not recommended to print)

National Research Council (1996). *National science education standards*. Washington, DC: National Academy Press. Retrieved from <a href="http://www.nap.edu/openbook.php?record\_id=4962">http://www.nap.edu/openbook.php?record\_id=4962</a> (Note: Not recommended to print)

Virginia Department of Education (2010). *Virginia Science Standards of Learning*. Retrieved from <a href="http://www.doe.virginia.gov/testing/sol/standards">http://www.doe.virginia.gov/testing/sol/standards</a> docs/science/index.shtml

#### **IB Primary Years Program Documents:**

In addition to the required and recommended texts, all students must have the following IB documents.. These documents are all available from the IBO Program Resource Center (PRC) (see below).

- Making the PYP Happen: A curriculum framework for international primary education
- Making the PYP Happen: Pedagogical leadership in a PYP school
- Programme standards and practices
- A continuum of international education (2009)\*
- IB Learner Profile Booklet and Video\*
- A basis for practice: the Primary Years Programme
- Learning in a language other than mother tongue in IB programmes\*
- Developing a transdisciplinary programme of inquiry
- PYP Exhibition Guidelines
- The PYP as a model of transdisciplinary learning

#### **Relevant Websites:**

All students will be enrolled in the Program Resource Center (PRC) through the International Baccalaureate Organization; the IBO public website is also a useful resource (www.ibo.org).

Please ensure you can access the PRC prior to the start of the course.

#### **Course Performance Evaluation**

Students are expected to submit all assignments on time in the manner outlined by the instructor (e.g., Blackboard, Tk20, hard copy).

#### TK20 PERFORMANCE-BASED ASSESSMENT SUBMISSION REQUIREMENT

(Science Inquiry Unit Plan & Video Tape Analysis)

Every student registered for any Teaching Culturally, Linguistically Diverse & Exceptional Learners program course with a required performance-based assessment is required to submit this assessment and the Fieldwork Log of Hours and Evaluation Form to Tk20 through Blackboard (regardless of whether the student is taking the course as an elective, a one-time course or as part of an undergraduate minor). Evaluation of the performance-based assessment by the course instructor will also be completed in Tk20 through Blackboard. Failure to submit the assessment to Tk20 (through Blackboard) will result in the course instructor reporting the course grade as Incomplete (IN). Unless the IN grade is changed upon completion of the required Tk20 submission, the IN will convert to an F nine weeks into the following semester.

#### FIELDWORK REQUIREMENT

Field Experience Record and Evaluation (*Science Inquiry Unit Plan & Video Tape Analysis*)

The field experience is a required component of the teacher preparation program at George Mason University. All students will complete a minimum of **20 hours in field experience** for this course.

Documentation of your field experience is required as well as a signed statement from your field experience teacher(s) or supervisor(s). If you are taking more than one course in a semester, you must complete 20 hours per course (e.g., two courses require 40 hours of field experience). This means you may be completing different tasks for different courses in the same placement. Materials and products used for one course cannot

\*TCLDEL Fieldwork Log of Hours and Evaluation Form must be uploaded to TK20 on Blackboard. The form is located on Blackboard in your TCLDEL organization site in the "Fieldwork" page.

be used for another course (e.g., videos, lesson plans, activities, etc.)

**In-service teachers:** Field experience can often be conducted in your own classroom if you have access to the population of students required for the PBAs and other assignments. Please consult your instructor if you have questions about the viability of your classroom for fieldwork in this class. You must register for your school as your field experience site in the online Field Experience Request form available here: <a href="https://cehd.gmu.edu/endorse/ferf">https://cehd.gmu.edu/endorse/ferf</a>. You will check the box indicating that: "I will arrange my own field experiences (observations and/or case studies) because I am a full-time contracted school system employee and will complete field experience at my workplace." The deadline to submit your field experience placement is Week 2 of class. Failure to do so will result in an unsatisfactory grade for your fieldwork assignment. If you are taking this course as part of a cohort program, please indicate "TCLDEL Cohort" on your request form FIRST, then select your program and placement location. HINT: Cohort courses have section numbers beginning with "6F" (e.g. EDUC 511.6F1).

Pre-service teachers: If you are not currently working in a K-12 school, you will need to be placed in an appropriate fieldwork setting to complete your required PBAs and fieldwork hours. You must request a fieldwork site using the online Field Experience Request form available here:

<a href="https://cehd.gmu.edu/endorse/ferf">https://cehd.gmu.edu/endorse/ferf</a>. You will check the box indicating that: I will need George Mason (Clinical Practice Specialist) to arrange a placement for my field experiences (including observations and/or case studies). The deadline to submit your field experience placement is Week 2 of class. Failure to do so will result in an unsatisfactory grade for your fieldwork assignment. If you are taking this course as part of a cohort program, please indicate "TCLDEL Cohort" on your request form, then select your program and placement location. HINT: Cohort courses have section numbers beginning with "6F" (e.g. EDUC 511.6F1). Virginia state or county cohort teachers: Cohort Students are required by their district and by TCLDEL to complete field experiences as required by the Virginia Department of Education for this program. Each district has arranged for candidates to be able to work at K-12 grade levels in order to complete all licensure requirements. Please contact your district coordinator for further information.

TCLDEL Fieldwork Log of Hours and Evaluation Assessment		
Status of Student Work		

	1	0
Fieldwork Log of Hours demonstrates 20 hours	Complete	Not Complete
of fieldwork completed, with a teacher-mentor		
or supervisor signature.		

NOTE: Failure to submit documentation of successful completion of your fieldwork in a timely manner will make you ineligible to register for coursework, be recommended for licensure, or receive a grade for this course.

#### **Assignments and/or Examinations**

Assignment Description	Grade %	<mark>Due Date</mark>
Participation & Electronic Journals	20%	Ongoing
Article Critique	10%	7/10/17, 11:59 pm
Microteaching: Inquiry mini-lesson	10%	7/13/18, in class
School-to-Home Cultural Connections to Science	10%	7/15/18, 11:59 pm
Final Take Home Exam	10%	7/17/18, 3:20 pm
Field Project	30%	1/15/2019
Field Experience	10%	1/15/2019

More detailed descriptions of assignments and rubrics are shown at the end of the syllabus.

#### **Other Requirements**

Attendance policy:

TCLDEL students are expected to attend *all* class periods of courses for which they register. In class participation is important not only to the individual student, but to the class as whole. Class participation is a factor in grading; instructors may use absence, tardiness, or early departure as de facto evidence of nonparticipation and as a result lower the grade as stated in the course syllabus (Mason Catalog). Any unexcused absences will result in a 10 -point deduction from your participation grade.

#### Grading

At George Mason University course work is measured in terms of quantity and quality. A credit normally represents one hour per week of lecture or recitation or not fewer than two hours per week of laboratory work throughout a semester. The number of credits is a measure of quantity. The grade is a measure of quality. The university-wide system for grading graduate courses is as follows:

Grade	GRADING	<b>Grade Points</b>	Interpretation
A	94-100	4.00	Represents mastery of the subject through effort
A-	90-93	3.67	beyond basic requirements
B+	85-89	3.33	Reflects an understanding of and the ability to
В	80-84	3.00	apply theories and principles at a basic level
C*	70-79	2.00	Denotes an unacceptable level of understanding
F*	<69	0.00	and application of the basic elements of the course

Note: "C" is not satisfactory for a licensure course; "F" does not meet requirements of the Graduate School of Education

See the University Catalog for details: <a href="http://catalog.gmu.edu/policies/academic/grading/">http://catalog.gmu.edu/policies/academic/grading/</a> Honor Code & Integrity of Work

**Integrity of Work:** TCLDEL students must adhere to the guidelines of the George Mason University Honor Code (<a href="https://catalog.gmu.edu/policies/honor-code-system/">https://catalog.gmu.edu/policies/honor-code-system/</a>). The principle of academic integrity is taken very seriously and violations are treated as such

#### Violations of the Honor Code include:

- 1. Copying a paper or part of a paper from another student (current or past);
- 2. Reusing work that you have already submitted for another class (unless express permission has been granted

- by your current professor **before** you submit the work);
- **3.** Copying the words of an author from a textbook or any printed source (including the Internet) or closely paraphrasing without providing a citation to credit the author. For examples of what should be cited, please refer to: <a href="https://owl.english.purdue.edu/owl/resource/589/02/">https://owl.english.purdue.edu/owl/resource/589/02/</a>
- **4.** You may also not "reuse" fieldwork hours. Each placement must have 20 documented hours that are solely for each course that you are in; you may be at the same site, but the same hours may not be counted towards the same course.

#### **Late Work Policy**

At the graduate level all work is expected to be of high quality and submitted on the dates due. Work submitted late will be reduced one letter grade for every day of delay. Because we live in uncertain times, if you have any extraordinary circumstances (think flood, earthquake, evacuation) that prevent you from submitting your work in a timely manner, it is your responsibility to contact the instructor as soon as possible after the circumstances occur and make arrangements to complete your work. It is up to the discretion of the instructor to approve the late/makeup work.

#### **Course Withdrawal with Dean Approval**

For graduate and non-degree students, withdrawal after the last day for dropping a course requires approval by the student's academic dean, and is permitted only for nonacademic reasons that prevent course completion (Mason catalog). *Students must contact an academic advisor* in APTDIE to withdraw after the deadline. There is no guarantee that such withdraws will be permitted.

#### **Participation/Attendance Policy**

Students are expected to attend all classes. Students with one or more absences will not receive credit for the course.

#### Incomplete (IN)

This grade may be given to students who are in good standing, but who may be unable to complete scheduled course work for a cause beyond reasonable control. The student must then complete all the requirements by the end of the ninth week of the next semester, not including summer term, and the instructor must turn in the final grade by the end of the 9th week. Unless an explicit written extension is filed with the Registrar's Office by the faculty deadline, the grade of IN is changed by the registrar to an F (Mason catalog). Faculty may grant an incomplete with a contract developed by the student with a reasonable time to complete the course at the discretion of the faculty member. The faculty member does not need to allow up to the following semester for the student to complete the course. A copy of the contract will be kept on file in the APTDIE office.

#### **GMU E-MAIL AND WEB POLICY:**

Mason uses electronic mail (<a href="www.gmu.edu/email">www.gmu.edu/email</a>) to provide official information to students. Examples include notices from the library, notices about academic standing, financial aid information, class materials, assignments, questions, and instructor feedback. Students are responsible for the content of university communication sent to their Mason e-mail account and are required to activate that account and check it regularly (Mason catalog). All communication sent for this course will be sent to your Mason email account.

### Schedule of Topics, Assignments and Readings

Note: Faculty reserves the right to alter the schedule as necessary, with notification to students.

Day 1: Friday, July 5			
	AM Class: 8:30-11:30	PM Class: 12:30-3:20	
Topic	Why do we teach science & intro to inquiry	Nature of science & Argumentation	
Readings	Text Ch. 1: Framing Science & Science Ed	NOS, Argumentation, & Discourse Articles	
		(on Blackboard)	

Day 2: Monday, July 8			
	AM Class: 8:30-11:30	PM Class: 12:30-3:20	
Topic	Learning Objectives for Inquiry Instruction	Managing Inquiry Instruction	
Readings	Text Ch. 2: Getting Ready for Inquiry	Text Ch. 3: Creating a Positive Classroom	
	Instruction Environment		
Due	Science & Children Article Critique due by 11:59 pm today to Bb		

Day 3: Tuesday, July 9			
	AM Class: 8:30-11:30	PM Class: 12:30-3:20	
Topic	Understanding through Inquiry Instruction	Planning for Inquiry	
Readings	Text Ch. 4: Learning Science with	Text Ch. 5: Engaging in Inquiry-Based	
	Understanding AND Misconception articles	Instruction and Using the 5-E Model	

Day 4: Wednesday, July 10			
	AM Class: 8:30-11:30	PM Class: 12:30-3:20	
Topic	Digging deeper into 5E Model	Questioning for Inquiry	
Readings	Articles on Blackboard	Text Ch. 6: Effective Questioning AND	
		Questioning article (on Blackboard)	

Day 5: Thursday, July 11			
	AM Class: 8:30-11:30	PM Class: 12:30-3:20	
Topic	Assessment in Science	Teaching with Technology	
Readings	Text Ch. 7: Assessing Science Learning	Text Ch. 8: Using Technology Tools and	
	Resources for Science Learning		
Due	Unit exploration: Bring one lesson plan from your unit to class today for peer feedback		

Day 6: Friday, July 12					
	AM Class: 8:30-11:30 PM Class: 12:30-3:20				
Topic	Inquiry across content areas	Maker Spaces & STEM			
Readings	<b>READ</b> : Text Ch. 9: Connecting Science with Articles on Blackboard				
	Other Subjects				
Due	Home-School Cultural Connections Assignment due by 11:59 pm today via Blackboard (due				
	before midnight on Fridy 7/12/19)				

	Day 7: Monday, July 15					
	AM Class: 8:30-11:30 PM Class: 12:30-3:20					
Topic	Science for all, inquiry for all	Differentiation in Science				
Readings	Text Ch. 10: Making Science Accessible for Differentiation articles (on Black)					
	All Learners					
Due	Microteaching will occur in class, submit l	esson plan & materials to Bb by 11:59 pm				

Day 8: Tuesday, July 16					
	AM Class: 8:30-11:30 PM Class: 12:30-3:20				
Topic	Bringing it all Together	Work time:			
Readings/Due		Final Exam due to Blackboard by 3:20 pm			

#### **COURSE PERFORMANCE EVALUATION**

All assignments should be turned in on the due date indicated in the schedule below via Blackboard. The submission deadline for most assignments is 11:59 pm EST of the due date indicated for each assignment (note that some assignments are due in class or at the end of class). All projects must be typed, in a legible 12-point font, with one-inch margins, and double-spaced. All writing assignments should be submitted as Word documents, or a word processor based format. Writing quality (including mechanics, organization, and content) is figured into the overall points for each writing assignment, so please proofread carefully. Late papers and projects will not be accepted without penalty, except for in extraordinary circumstances. I am happy to clarify and lend assistance on projects and assignments, but please contact me within a reasonable timeframe

1. Participation 20%

Students will be expected to actively participate in class by questioning, commenting and critically analyzing relevant issues and topics. Students will make a presentation and lead a discussion on a journal or research article. Students will read, participate in activities, and perform reflective observations and journaling during class time.

TCLDEL students are expected to attend *all* class periods of courses for which they register. In-class participation is important not only to the individual student, but to the class as a whole. Class participation is a factor in grading; instructors may use absence, tardiness, or early departure as de facto evidence of nonparticipation and as a result lower the grade as stated in the course syllabus (Mason Catalog).

Mason uses electronic mail to provide official information to students. Examples include notices from the library, notices about academic standing, financial aid information, class materials, assignments, questions, and instructor feedback. Students are responsible for the content of university communication sent to their Mason e-mail account and are required to activate that account and check it regularly (Mason catalog).

2. Article Critique 10%

Students will submit one article critique, regarding an article from an outside source. At least one citation from the textbook or assigned articles should be included in the critique, as well as an assessment of the article, as explained in the rubric. The article should relate to teaching elementary science. APA citations & references should be included.

#### 3. Microteaching: Inquiry mini-lesson

10%

Students will work collaboratively in grade level groups to plan & implement an inquiry activity with their peers in the EDUC 514 class. Students are encouraged to draw from the activities provided in the second half of the textbook, but may draw from other resources, as well. Students should identify the relevant VA SOL or NGSS standard(s) that are met by the activity and discuss.

#### 4. School-to-Home Cultural Connections to Science

10%

Teachers of elementary children are particularly responsible for initiating and encouraging communication between their students' families and the school. It is vital that teachers create relationships with families and the community, particularly when teaching in a school with cultural and linguistic diversity (whether in the U.S. or around the world).

The student will develop **one** of the following, and will include citations of at least two course readings to support work:

• A one-page newsletter/handout with ideas for families to extend science development that builds on classroom activities on a particular topic or concept. The newsletter must provide opportunities for the child to bring back products done with family members at home.

- A detailed plan for a "skill backpack". The backpack can remediate or extend a mathematics or science skill that students often have a difficult time developing or provide an extension of a classroom activity for students with advanced proficiency. The backpack must provide opportunities for the child to bring back products done with family members at home.
- A detailed plan for a classroom or school family science night. The plan should include how the student will involve parents and what activities will be done.

4. Field Project 30%

- A. All TCLDEL licensure courses have a required Performance Based Assessment (PBA). The Field Project is the PBA for this course, the **Science Inquiry Unit Plan & Video Tape Analysis**. Students will design an integrated, inquiry-based, hands-on science unit (minimum of six connected lessons) that demonstrates an understanding of topics presented during the semester. Units may be based on National or State Standards K-6. Students also need to complete a PYP Planner. Students will post the Unit Plans to TK20 for review and grade assignment. Be sure to identify your cohort.
- **B.** Students will teach at least two lessons from their unit and reflect on their experience with respect to student learning as part of their unit submission. A peer or administrator should observe both of the lessons taught and complete a Science Teaching Feedback Form on each lesson for a total of two completed forms. Feedback from these two forms should be incorporated during your reflections. Please see the Science Teaching Feedback Form in this syllabus.

5. Field Experience 10%

All TCLDEL courses require 20 hours of field experience in elementary classrooms. For this course, teaching the two science lessons and submitting two Science Teaching Feedback Forms in this syllabus along with the Reflective Paper on your field placement site's physical environment, learning climate, the teacher, and the students; TCLDEL Field Experience Record (includes log of hours); and TCLDEL Field Experience Evaluation Form can be considered the field experience component of the class.

If you cannot teach the two science lessons during your regularly scheduled field work, you will need to make arrangements to complete the science teaching assignments at another time. After a "satisfactory" completion of Field Experience a course grade will be provided. Signed documents must be submitted to the instructor. All field experience documents must be loaded into TK20. Also, please see EDUC 514 Field Experience Assessment Rubric in this syllabus.

6. Final Project 10%

Take home final exam. Students will select two topics to address that show understanding of issues that are presented during the semester. Responses should be limited to three pages, double-spaced.

All assignments should be in APA format.

**Class Participation Rubric** 

Unsatisfactory (<70)	Minimal (70-79)	Competent (80-89)	Excellent (90-100)
Does not ask	Does not ask	Frequently asks questions	Consistently asks thoughtful,
questions or make	questions or make any	or makes observations	analytic questions or makes
any observations that	observations that	that indicate reflection	astute observations that
indicate reading of	indicate reading of	and some reading of	indicate reflection and
assigned material.	assigned material.	assigned material.	reading of assigned material.
Does not participate	Does not participate	Participates very actively	Participates very actively in
in small groups and	in small groups and is	in small groups or class	small groups or class
is frequently tardy or	frequently tardy or	discussions. May be	discussions. Attends class
absent.	absent.	tardy two or three times	regularly and on time. Is
		or one unexcused	respectful to peers and
		absence.	instructor.

### **Article Critique Rubric**

Tituele Citique Rubile				
	Does Not Meet Expectations (0-69)	Meets Expectations (70-79)	Above Expectations (80-89)	Outstanding (90-100)
Relevance	Stretches to raise relevant questions and/or make a relevant personal reaction to elementary science.	May relate personal reactions and/or raises relevant questions to elementary science.	Relates a few personal reactions and/or raises relevant questions to elementary science.	Relates personal reactions and/or raises relevant questions throughout response.
Summary	Summary is unclear and poorly written.	Summarizes article briefly with some coherence.	Summarizes article clearly and briefly.	Summarizes article clearly, articulately and briefly.
Critique	Critique is unclear.	Critique is expressed clearly.	Critique is expressed clearly and supported with a reference.	Critique is expressed clearly and supported with reference(s).
Due Date	Instructor receives critique after due date.	Instructor receives critique on due date.	Instructor receives critique before or on due date.	Instructor receives critique before or on due date.

#### **Rubric: School to Home Cultural Connections to Science**

Rubric: School to Home Cultural Connections to Science				
	Does Not Meet Expectations	Meets Expectations	Exceeds Expectation	
Directions	Provides limited or unclear directions to engage child in mathematics and/ or science development	Provides parent friendly directions for family members to engage child in mathematics and/ or science development	Provides clear, parent friendly directions for family members to engage child in mathematics and/ or science development	
Communication	Provides limited or no opportunities or encouragement for parent-child-school communication	Provides limited opportunities or encouragement for parent-child-school communication	Provides opportunities and encouragement for parent-child-school communication	
Readings	Limited or ineffective incorporation of course readings	Shows some evidence of incorporating at least two readings (includes citations)	Shows clear evidence of incorporating at least two readings (includes citations)	

### **EDUC 514 PBA Rubric**

	Score				
Criteria & Standard	Does not meet standard 0 - 1	Approaches standard	Meets standard	Exceeds standard 4	
Unit Content Science ACEI Standard 2.2 — Science Content Knowledge InTASC 4(c)	The candidate does not engage learners in applying methods of inquiry and standards of evidence used in science.	The candidate engages learners in applying methods of inquiry but disregards the standards of evidence used in science, which may include nature of science.	The candidate engages learners in applying methods of inquiry and the appropriate standards of evidence used in science, including the nature of science.	The candidate engages learners in applying multiple methods of inquiry and appropriate standards of evidence used in science by implementing authentic tasks and meaningfully conveying the nature of science to students.	
Unit Content Instructional Differentiation ACEI Standard 3.2 Adaptation to Diverse Learners InTASC 2(a)	The candidate does not design, adapt, or deliver instruction to address each student's diverse learning strengths and needs and did not create opportunities for students to demonstrate their learning in different ways.	The candidate designs, adapts, and delivers instruction to address some student's diverse learning strengths and needs and creates few opportunities for some students to demonstrate their learning in different ways.	The candidate designs, adapts, and delivers instruction to address each student's diverse learning strengths and needs and creates opportunities for students to demonstrate their learning in different ways.	The candidate designs, adapts, and delivers student-centered instruction that addresses each student's diverse learning strengths and needs and creates multiple opportunities for students to demonstrate their learning in different ways.	
Unit Content Manages Learning Environment  InTASC 3(d)	The candidate does not plan ways to manage the learning environment to actively and/or equitably engage learners. The candidate does not show evidence of organizing, allocating, and coordinating the resources of time, space, and learner's	The candidate plans ways to marginally manage the learning environment to actively and equitably engage some learners by organizing, allocating, and coordinating the resources of time, space, and learner's attention.	The candidate plans ways to effectively manage the learning environment to actively and equitably engage the majority of learners by organizing, allocating, and coordinating the resources of time, space, and learner's attention.	The candidate plans ways to effectively manage the learning environment to actively and equitably engage all learners by creatively organizing, allocating, and coordinating the resources of time, space, and learner's attention.	
Unit Content - Integration of Science ACEI Standard 3.1 Integrating & Applying Knowledge for Instruction	attention.  The candidate does not design instruction that integrates science topics with other s subject.	The candidate designs instruction that integrates science topics with one other subject.	The candidate designs instruction that integrates science topics with several other subjects clearly to create meaning for students.	The candidate designs instruction that integrates science topics with several other subjects skillfully and creatively to make meaning for students	
Unit Content Assessment  ACEI Standard 4.0 Assessment for Instruction  InTASC 8(b)	The candidate does not provide evidence of monitoring student learning, and/or does not engage learners in assessing their progress, and/or does not provide evidence of adjusting instruction in response to student learning needs.	The candidate provides minimal evidence of monitoring student learning and engaging learners in assessing their progress, but the candidate rarely adjusts instruction in response to student learning needs.	The candidate provides consistent evidence of monitoring student learning, engaging learners in assessing their progress, and adjusts instruction in response to student learning needs.	The candidate provides substantial evidence of continuously monitoring student learning, engaging learners in assessing their progress, and innovatively adjusts instruction in response to student learning needs.	

	Score			
Criteria & Standard	Does not meet standard 0 - 1	Approaches standard 2	Meets standard	Exceeds standard
Unit Content Health and Safety ACEI Standard 2.6 Health Education	The candidate <b>does not</b> address health or safety issues.	The candidate addresses health and safety issues minimally but fails to address misconceptions or real world applications	The candidate addresses potentially dangerous health and safety issues in <b>all</b> unit activities to help students clarify misconceptions and bring real world applications to the unit	The candidate highlights potentially dangerous health and safety issues in <b>all</b> unit activities to help students clarify misconceptions and bring extensive real world applications to the unit
Unit Content Adapts Instruction  InTASC 8(a)	The candidate <b>does not</b> adapt instruction to the needs of individuals and groups of learners.	The candidate adapts instruction to the needs of <b>some individuals</b> and groups of learners but <b>seldom</b> incorporates appropriate strategies or resources.	The candidate uses appropriate strategies and resources to adapt instruction to the needs of individuals and groups of learners.	The candidate uses appropriate and <b>creative</b> strategies and resources within <b>authentic tasks</b> to adapt instruction to the needs of individuals and groups of learners.
Lesson Plan Content Science Inquiry Process  ACEI Standard 3.3 Development of Critical Thinking and Problem Solving InTASC 8(f)	The candidate does not engage learners in developing higher order questioning skills or metacognitive processes. Lesson content, objectives, and standards do not require students to demonstrate critical thinking or problem solving skills	The candidate engages some learners in developing higher order questioning skills or metacognitive processes. Lesson content, objectives, and standards requires students to demonstrate critical thinking and problem solving skills only in some cases	The candidate engages most learners in developing higher order questioning skills and metacognitive processes. Lesson content, objectives, and standards requires students to demonstrate critical thinking and problem solving skills	The candidate engages all learners in developing higher order questioning skills and metacognitive processes within authentic science learning situations. Lesson content, objectives and standards requires students to repeatedly demonstrate critical thinking and extensive problems solving skills
Lesson Plan Content Stimulates learner reflection	The candidate does not stimulate learner reflection on prior content knowledge, does not link new concepts to familiar concepts, and does not make connections to learners' experiences.	The candidate stimulates learner reflection on prior content knowledge, but neither links new concepts to familiar concepts nor makes connections to learners' experiences.	The candidate stimulates learner reflection on prior content knowledge, links new concepts to familiar concepts, and makes connections to learners' experiences.	The candidate <b>creatively</b> stimulates learner reflection on prior content knowledge, links new concepts to familiar concepts, and makes connections to learners' experiences <b>using student-centered instruction.</b>
Lesson Plan Content Questioning to Promote Inquiry  InTASC 8(i)	The candidate does not ask questions to stimulate discussion.	The candidate asks questions to stimulate discussion but the purposes tend to be low level.	The candidate asks appropriate questions to stimulate discussion that serves different purposes (e.g., probing for learner understanding, helping learners articulate their ideas and thinking processes, stimulating curiosity, and helping learners to question).	The candidate asks varied questions to stimulate discussion that serves different purposes (e.g., probing for learner understanding, helping learners articulate their ideas and thinking processes, stimulating curiosity, and helping learners to question) within authentic learning situations.
Lesson Plan Content Developmental Appropriateness ACEI Standard 1.0 Development, Learning & Motivation InTASC 1(b)	The candidate's instruction does not take into account individual learners' strengths, interests, and needs and does not enable learners to advance and accelerate his/her learning.	The candidate creates instruction that takes into account some students' strengths, interests, and needs and that enables some learners to advance and accelerate his/her learning.	The candidate creates developmentally appropriate instruction that takes into account individual learners' strengths, interests, and needs and that enables each learner to advance and accelerate his/her learning.	The candidate creates student-centered instruction that is developmentally appropriate and takes into account individual learners' strengths, interests, and needs and that enables each learner to advance and accelerate his/her learning.

	Score			
Criteria & Standard	Does not meet standard 0 - 1	Approaches standard 2	Meets standard	Exceeds standard 4
Lesson Plan Content Critical thinking and problem solving ACEI Standard 3.3 Development of critical thinking and problem solving	The candidate does not provide authentic opportunities for students to engage in critical thinking and problem solving	The candidate provides few opportunities for students to engage in critical thinking and problem solving	The candidate provides some opportunities for students to engage in critical thinking and problem solving	The candidate provides multiple opportunities for students to engage in critical thinking and problem solving
Lesson Plan Content Active Engagement ACEI Standard 3.4 Active engagement in Learning	The candidate does not incorporate any hands-on activities to engage learners in inquiry.	The candidate incorporates some low-quality activities	The candidate incorporates at least one engaging hands-on science activity or experiment.	The candidate incorporates at least one high quality, engaging hands-on science activity or experiment that is designed to engage learners in inquiry.
Lesson Plan Content Varies Instruction Role  InTASC 8(d)	The candidate does not vary his/her role in the instructional process (e.g. instructor, facilitator, coach, audience).	The candidate sometimes varies his/her role in the instructional process (e.g. instructor, facilitator, coach, audience) but it is in relation to neither the content nor the purpose of instruction nor the needs of learners.	The candidate varies his/her role in the instructional process (e.g. instructor, facilitator, coach, audience) in relation to the content and purpose of instruction and the needs of learners.	The candidate <b>consistently</b> varies his/her role in engaging instructional processes (e.g. instructor, facilitator, coach, audience) in relation to the content and purpose of instruction and the needs of learners.
Reflective Analysis of Video Clip  Technology to support instruction  InTASC 9(d)	The candidate does not use technology to support analysis, reflection, and problem-solving strategies for instruction.	The candidate ineffectively uses technology to support analysis, reflection, or problem-solving strategies for instruction.	The candidate uses technology to support analysis, reflection, and problem-solving strategies for instruction.	The candidate effectively uses technology to support a thorough use of analysis, reflection, and problemsolving strategies for instruction.
Reflective Analysis of Video Clip Ongoing Learning InTASC 9(a)	There was no evidence that the candidate engages in ongoing learning opportunities to plan to improve teaching and learning.	There was minimal evidence that the candidate engages in ongoing learning opportunities to plan to improve teaching and learning.	There was evidence that the candidate effectively engages in ongoing learning opportunities to plan to improve teaching and learning.	There was extensive evidence that the candidate effectively engages in ongoing learning opportunities to plan to improve teaching and learning.
Reflective Analysis of Video Clip Individual Differences InTASC 9(e)	There is no evidence that the candidate reflects on his/her personal biases. The candidate did not access resources to deepen his/her own understanding of a variety of individual differences to build relationships and create more relevant learning experiences.	The candidate provides evidence that he/she reflects on his/her personal biases and accesses resources to deepen his/her own understanding of limited individual differences to build relationships and create relevant learning experiences.	The candidate provides evidence that he/she reflects on personal biases and accesses appropriate resources to deepen his/her own understanding of a variety of individual differences to build relationships and create more relevant learning experiences.	The candidate provides evidence that he/she effectively reflects on personal biases and accesses multiple resources to deepen his/her own understanding of a variety of individual differences to build relationships and create engaging, relevant learning experiences.

			Score	
Criteria & Standard	Does not meet standard 0 - 1	Approaches standard 2	Meets standard	Exceeds standard 4
Holistic Reflection Professional Learning Experiences InTASC 9(b)	The candidate does not take responsibility for promoting the learners' growth and development in a reflective statement. The statement does not specifically address any of the critical levels of reflections.	The candidate takes responsibility for promoting the learners' growth and development in a reflective statement, but does not address all of the levels of critical reflection.	The candidate takes responsibility for promoting the learners' growth and development in a reflective statement that includes all of the levels of critical reflection.	The candidate takes responsibility for promoting the learners' growth and development in a well-written and insightful reflective statement that includes all of the levels of critical reflection.
Holistic Reflection Effective Use of Data InTASC 9(c)	The candidate does not use a variety of data to evaluate the outcomes of teaching and learning and to adapt planning and practice.	The candidate uses a variety of data to evaluate the outcomes of teaching and learning but does not provide strategies to adapt planning and/or practice.	The candidate uses a variety of data to evaluate the outcomes of teaching and learning and to adapt planning and practice.	The candidate effectively uses a variety of data to evaluate the outcomes of teaching and learning and to appropriately adapt planning and practice.
Holistic Reflection Ongoing Analysis & Reflection  InTASC 9(1)	There was no evidence that the candidate used ongoing analysis and/or reflection to improve planning and practice. The candidate does not provide ideas for follow-up on the two lessons observed by teacher/supervisor.	The candidate uses marginal analysis and reflection strategies to improve planning and practice. The candidate provides ideas for follow-up on the two lessons observed by teacher/supervisor, but they do not stem from the feedback form or classroom assessments	The candidate uses ongoing analysis and reflection to improve planning and practice. The candidate provides ideas for follow-up on the two lessons observed by teacher/supervisor that stem from the feedback form and classroom assessments.	The candidate effectively uses ongoing analysis and deep reflection to improve planning and practice. The candidate provides robust and specific ideas for follow-up on the two lessons observed by teacher/supervisor that stem from the feedback form and classroom assessments.

## **George Mason University**: College of Education & Human Development: Graduate School of Education Science Teaching Feedback Form

Please use this form OR another relevant teacher feedback form. Evaluator feedback does not influence the teacher's course grade in EDUC 514. This form should be completed twice, once *each* for two lessons.

Teacher:	Date:		
Observer:	Title:		
School:	Grade/Subject(s):		
Lesson Observed:			

Please score the teacher on the following aspects based on your observation of their teaching two lessons from their science unit completed as a portion of their course requirements for EDUC 514. This form should be completed for <u>each</u> observation so that you have completed the form <u>twice</u>. It is not required that the same person complete both forms. <u>Please note that the content of your feedback does not influence the teacher's course grade in EDUC 514</u>. Instead, the teacher is requested to reflect on your feedback as a valuable opportunity to grow as a professional educator, and the quality of their reflection is scored as part of their final grade on their unit assignment.

Criteria	Exceeds Standard – 4	Meets Standard – 3	Approaches Standard -	Needs Improvement -
Lesson Content	Lesson content,	Lesson content,	Lesson content,	Lesson content,
Science Inquiry	objectives and	objectives, and	objectives, and	objectives, and
Process	standards requires	standards requires	standards requires	standards do not
	students to repeatedly	students to	students to	require students to
	demonstrate critical	demonstrate critical	demonstrate critical	demonstrate critical
ACEI 2.2	thinking and extensive	thinking and problem	thinking and problem	thinking or problem
	problems solving	solving skills	solving skills only in	solving skills
	skills		some cases	
Lesson Content	Lesson content,	Lesson content,	Lesson content,	Lesson content,
Developmental	objectives, and	objectives, and	objectives, and	objectives, and
Appropriateness	standards are	standards are	standards are	standards are not
	developmentally	developmentally	developmentally	developmentally
ACEI 1.0	appropriate	appropriate in most	appropriate only in	appropriate
		cases	some cases	
Lesson Content	Includes extended	Includes sufficient	Includes minimal	No authentic
Critical	opportunities for	opportunities for	opportunities for	opportunities are
thinking and	students to engage in	students to engage in	students to engage in	provided for students
problem solving	critical thinking and	critical thinking and	critical thinking and	to engage in critical
	problem solving	problem solving	problem solving	thinking and problem
<u>ACEI 3.3</u>				solving
Lesson Content	Includes extended	Includes sufficient	Includes minimal	Includes a low-
Active	high quality, engaging	high quality, engaging	hands-on/minds-on	quality, unengaging
Engagement	hands-on/minds-on	hands-on/minds-on	activities/experiment	hands-on/minds-on
	activities/experiments	activities/experiments		activity/experiment(s)
ACEI 3.4	25 11 22 :	2.5.1.1.20	26.11	25.11
<u>Lesson</u> Content	Models effective	Models effective	Models good	Models poor
Communication	written and oral	written and oral	communication skills	communication skills
to Foster	communication	communication to	written and orally to	in written and oral
Collaboration	conveying ideas and	convey information to	share information with	forms; lacks clarity
	information to	students	students	and often confuses
100125	students extending			students
ACEI 3.5	their understanding of			
	science			

Lesson Content Communication to Foster Communication  ACEI 3.5	Models effective questioning strategies including using higher level questioning, restating ideas, drawing connections and using cues with active student engagement	Models effective questioning strategies using higher level questions, some student engagement	Good use of questioning strategies, some attempt to ask higher level questions, some student involvement	Poor use of questioning strategies; asks low level questions with little or no student engagement
Lesson Content Health and Safety  ACEI 2.6	Highlights potentially dangerous health and safety issues in all unit activities to help students clarify misconceptions to bring extensive real world applications to the unit	Mentions potentially dangerous health and safety issues in all unit activities to help students clarify misconceptions to bring extensive real world applications to the unit	Some health and safety issues are addressed in the unit but without addressing misconceptions or real world applications	No health or safety issues are addressed

Additionally, please use the space below to provide feedback to the teacher in following areas: PREPARATION and PLANNING: INSTRUCTIONAL METHODS and MANAGEMENT: ASSESSMENT: PROFESSIONALISM: RECOMMENDATIONS: Observer's Signature \_\_\_\_\_\_ Date \_\_\_\_\_ Teacher's Signature \_\_\_\_\_\_ Date \_\_\_\_\_ <u>Observers</u>: When completing the second page of the Science Teaching Feedback Form please consider the following list of characteristics and practices of effective teachers.

#### An effective teacher...

#### Planning and Preparation:

- Uses curriculum guidelines and learning standards during planning to meet the needs of learners
- Develops unit and lesson plans to meet the developmental and academic needs of diverse learners.
- Plans a sequence of engaging activities, which are focused on achievement of the instructional objective(s).
- Selects learning experiences, technology and materials to accommodate different styles and levels of learning.
- Relates activities to students' culture, interests, knowledge, and experiences.
- Integrates materials and activities that are sensitive to culture, disabilities and gender.
- Gathers, creates and organizes materials and equipment in advance.
- Plans for using various methods to assess students' learning.
- Collaborates with other teachers and specialists in planning.

#### Instructional Methods and Management:

- Uses a variety of teaching methods, techniques and strategies.
- Consistently presents accurate content.
- Consistently provides clear instruction.
- Provides opportunities for learners to participate actively and successfully at different levels.
- Provides opportunities for learners to work independently and in cooperative groups.
- Encourages critical thinking and problem solving.
- Appropriately uses a variety of materials, technology and other media to achieve instructional objectives.
- Motivates students through interesting and challenging activities.
- Communicates high expectations while respecting individual differences and cultural diversity.
- Creates and/or uses established routines to provide an orderly and supportive environment.
- Creates and/or uses established routines to provide an orderly and supportive environment.
- Demonstrates courtesy and caring in relationships with students.
- Manages time, space and materials to keep students productively involved in learning.
- Demonstrates ability to manage 2/+ classroom activities simultaneously, with evidence of attention to each.
- Works toward developing a positive classroom community.
- Handles disruptive or destructive behavior firmly and fairly.

#### Assessment:

- Uses assessment that matches the objective.
- Uses assessment to inform future instruction.
- Adapts pacing, methods and materials using feedback from students.
- Assesses for understanding and mastery through observation of students' performance.
- Assesses for understanding and mastery through evaluation of students' work.
- Assesses for understanding and mastery through evaluation of students' work.
- Keeps records of students' progress and problems.
- Communicates with students to inform them of their progress.
- Gathers, organizes, and analyzes student data to communicate progress to others.

#### Professionalism:

- Possesses the basic skills and knowledge needed to guide students' learning.
- Demonstrates effort to continue learning both content and pedagogy.
- Reflects on his/her professional practice.
- Welcomes assistance for improvement.
- Implements suggestions and recommendations for improvement.
- Can develop and explain professional judgments.
- Engages in productive relationships with professional colleagues and support staff.
- Demonstrates stamina, flexibility and a positive attitude.
- Is responsible, dependable and observant of school policies and procedures.
- Demonstrates dispositions associated with an effective career educator.
- Projects a professional image in terms of demeanor and appearanc

#### Field Experience: Documentation of Fieldwork Experiences

All TCLDEL courses require 20 hours of field experience in elementary classrooms. All those observing in a classroom are required to submit a TCLDEL Field Experience Record (includes log of hours) and TCLDEL Field Experience Evaluation Form to your <u>instructor</u> via Tk20 no later than the last date of the semester of your fieldwork (or by the relevant extended summer deadline). The documents must have signatures from either their teachers/or supervisors before submission. Those conducting fieldwork in their own schools should provide the principal/head's permission.

Additionally, for this course you must teach two science lessons from your unit and submit two completed Science Teaching Feedback Forms from this syllabus along with the Reflective Paper. If you cannot teach the two science lessons during your regularly scheduled field work, you will need to make arrangements to complete the science teaching assignments at another time.

**EDUC 514 Field Experience Assessment Rubric** 

Checklist: Are all items subn	nitted?
Signed TCLDEL Field	Experience Record (includes log of hours)
Signed TCLDEL Field	Experience Evaluation Form
Two signed Science Tes	aching Feedback Forms (OR similar teaching feedback forms) on two
different lessons taught	from unit
Reflective paper on obs	servations and teaching experiences

#### **Excellent**

- Completed 20 hours of Field Experience
- Unit Plan (including IB Planner) is complete and thoughtfully created; Reflective paper connects meaningfully to instructional changes for the future
- Writes clearly with few stylistic and grammatical errors
- Organizes paper in deliberate manner
- Reflects thoughtfully for all areas
- Supports analysis and application by frequently citing class content
- Applies knowledge to future teaching situations

#### **Satisfactory**

- Completed 20 hours of Field Experience
- Unit Plan and reflective paper (including IB Planner) is mostly complete
- May write with some lack of clarity and/or consistent stylistic or grammatical errors
- May organize paper in loose fashion that is difficult to follow
- May not reflect for all areas or does not reflect with depth
- Supports analysis by citing class content inaccurately or using few citations
- May not apply knowledge to future teaching situations

#### Unsatisfactory

- Did not complete 20 hours of Field Experience
- Unit Plan and reflective paper (including IB Planner) is lacking in specific details
- Writes with some lack of clarity and/or many stylistic and grammatical errors
- Organizes paper in fashion that is difficult or impossible to follow
- Does not reflect for all areas or does not reflect with depth
- Does not support analysis by citing class content
- Does not apply knowledge to future teaching situations

#### **Evaluator's Comments:**

#### **Professional Dispositions**

See https://cehd.gmu.edu/students/polices-procedures/

#### **Core Values Commitment**

The College of Education and Human Development is committed to collaboration, ethical leadership, innovation, research-based practice, and social justice. Students are expected to adhere to these principles: <a href="http://cehd.gmu.edu/values/">http://cehd.gmu.edu/values/</a>.

#### **GMU Policies and Resources for Students**

#### **Policies**

- Students must adhere to the guidelines of the Mason Honor Code (see <a href="https://catalog.gmu.edu/policies/honor-code-system/">https://catalog.gmu.edu/policies/honor-code-system/</a>).
- Students must follow the university policy for Responsible Use of Computing (see <a href="http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/">http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/</a>).
- Students are responsible for the content of university communications sent to their Mason email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students solely through their Mason email account.
- Students with disabilities who seek accommodations in a course must be registered with George Mason University Disability Services. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor (see <a href="https://ds.gmu.edu/">https://ds.gmu.edu/</a>).
- Students must silence all sound emitting devices during class unless otherwise authorized by the instructor.

#### Campus Resources

- Support for submission of assignments to Tk20 should be directed to <a href="mailto:tk20help@gmu.edu">tk20help@gmu.edu</a> or <a href="https://cehd.gmu.edu/aero/tk20">https://cehd.gmu.edu/aero/tk20</a>. Questions or concerns regarding use of Blackboard should be directed to <a href="https://coursessupport.gmu.edu/">https://coursessupport.gmu.edu/</a>.
- For information on student support resources on campus, see <a href="https://ctfe.gmu.edu/teaching/student-support-resources-on-campus">https://ctfe.gmu.edu/teaching/student-support-resources-on-campus</a>

For additional information on the College of Education and Human Development, please visit our website <a href="https://cehd.gmu.edu/students/">https://cehd.gmu.edu/students/</a>.