

**University of North Texas at Dallas**  
**Fall 2016**  
**SYLLABUS**

<b>EDEC 5422 Advanced Interventions for Pre-K/K Math and Science 3 hrs</b>			
<b>Department of</b>	<b>Teacher Education and Administration</b>	<b>School of</b>	<b>Education and Human Services</b>
<b>Instructor Name:</b>	<b>Dr. LaBotta Taylor</b>		
<b>Office Location:</b>	UNT-D Adjunct Office		
<b>Office Phone:</b>	469-708-8683		
<b>Email Address:</b>	<b>LaBotta.Taylor@untdallas.edu</b>		
<b>Office Hours:</b>	<b>By Appointment</b>		
<b>Course Format/Structure:</b>	Face to Face; plus online assignments		
<b>Classroom Location:</b>	UNT-Dallas		
<b>Class Meeting Days &amp; Times:</b>	Mondays @ 5:30 – 8:20 p.m. Face to Face; plus online assignments		
<b>Course Catalog Description:</b>	Inquiry based and experiential approach to advanced interventions for Pre-K students who are not meeting developmentally expected math and science goals. Students learn practical skills of assessment and math and science intervention strategies (e.g. Response to Intervention strategies) as well as parent consultation. Special attention is given to poverty, language differences, behavior challenges, and disabilities that may impact Pre-K math and science development.		
<b>Prerequisites:</b>	<i>Graduate Student Standing</i>		
<b>Co-requisites:</b>	<i>Departmental approval</i>		
<b>Required Text:</b>	<p>Froschauer, L. (2013). A year of inquiry: A collection for elementary educators. Arlington, VA: National Science Teachers Association (NSTA).</p> <p>Stein, M.K. &amp; Smith, M.S. (2011). 5 practices for orchestrating productive mathematics discussion. Thousand Oaks, CA: National Council of Teachers of Mathematics (NCTM).</p> <p>Science book may be purchased through Amazon or download the PDF eBook through NSTA (\$16.87 for NSTA members/\$19.46 non-members).  <a href="https://learningcenter.nsta.org/resource/?id=10.2505/9781936959655">https://learningcenter.nsta.org/resource/?id=10.2505/9781936959655</a></p>		
<b>Recommended Text and References:</b>			
<b>Access to Learning Resources:</b>	<p>UNT Dallas Library: (Founders Hall)  phone: (972) 780-1616  web: <a href="http://www.untdallas.edu/library">http://www.untdallas.edu/library</a>  e-mail: <a href="mailto:Library@untdallas.edu">Library@untdallas.edu</a></p> <p>UNT Dallas Bookstore: (Building 1)  phone: (972) 780-3652  web: <a href="http://www.untdallas.edu/bookstore">http://www.untdallas.edu/bookstore</a>  e-mail: <a href="mailto:untdallas@bkstr.com">untdallas@bkstr.com</a></p>		
<b>Course Goals or Overview:</b> The goals of this course are to develop knowledge and practical skills to assess, plan lessons, implement, and reflect on teaching of math and science to 4 through 6 year olds who are not meeting developmentally expected math and science goals.			

**Learning Objectives/Outcomes:** At the end of this course, students will be able to:

1	Explain alternative philosophies (i.e. constructivist approach) to promoting math and science concepts for students who struggle.
2	Demonstrate critical thinking by the ability to assess, chart, and analyze data for math and science concepts of children who are not meeting standards.
3	Analyze predictors of atypical physical, cognitive, social, and emotional development of preschool children and the role that poverty, language differences, behavior challenges, and disabilities play in atypical development of math and science concepts and skills.
4	Apply RTI Pre-K/K math and science lesson plans that incorporate multi-culturally diverse music and art.
5	Use research literature and action research skills to improve implementation of RTI related to math and science.

**Course Outline**

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class or via class email or Blackboard announcement. Additional readings and activities may be added, these will be noted in the Readings and Activities/Assignments sections.

Timeline	Topics	Related SLO	Readings/ Activities/Assignments
Week 1 8/22	The Constructivist Perspective.	1, 2	NSTA & NCTM Discussion Board 1/Introductions
Week 2 8/29	A constructivist Curriculum Model for Science.	1, 2	NSTA & NCTM Discussion Board 2
Week 3 Labor Day /No School (9/5)	Creating a Constructivist Learning Environment	1, 2	NSTA & NCTM
Week 4 9/12	The Role of the Constructivist Teacher	1, 2	NSTA & NCTM Discussion Board 3 Assignment 1
Week 5 9/19	Assessment of Math and Science Learning Difficulties in Early Childhood Education	3	NSTA & NCTM Discussion Board 4
Week 6 9/26	Problem-Solving in Everyday Life: Math, Science, and Beyond Response to Intervention for Math and Science	3, 4	NSTA & NCTM Discussion Board 5 Assessment Video Due
Week 7 10/3	SETS NUMBER SENSE	5	NSTA & NCTM Discussion Board 6 Midterm Exam
Week 8 10/10	COUNTING NUMBER OPERATIONS	5	NSTA & NCTM Discussion Board 7 Assignment 2
Week 9 10/17	PATTERN MEASUREMENT	5	NSTA & NCTM Discussion Board 8 Assignment 3
Week 10 10/24	DATA ANALYSIS SPATIAL RELATIONSHIPS	5	NSTA & NCTM Project 1: Video 1 and Reflection
Week 11 10/31	How Can I Make It Move?	4	NSTA & NCTM Discussion Board 9
Week 12 11/7	How Can I Make It Change?	4	NSTA & NCTM Discussion Board 10
Week 13 11/14	How Does It Fit or How Do I Fit?	4	NSTA & NCTM Assignment 4
Week 14 11/21	The Teacher as Theory Builder	1, 2	NSTA & NCTM Project 2: Video 2 and Reflection
Week 15 11/28	Lesson Plans	1-5	Assignment 5
Week 16 12/5	Final review	1-5	Review for final.

*Finals will be scheduled according to the university schedule. Attendance is mandatory or an automatic zero will be given.*

## Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

**Exams:** - written tests designed to measure knowledge of presented course material

**Assignments:** - written assignments designed to supplement and reinforce course material (see Blackboard for rubric)

**Projects:** - assignments designed to measure ability to apply presented course material (see Blackboard for rubric)

### Grading Matrix:

Instrument	Measures SLO	Value (points or percentages)	Total
Assignments	1, 2, 5	5 assignments at 20 points each	100
Discussion Board	1, 5	10 discussion boards at 10 points each	100
Projects	2, 3, 4	2 projects at 50 points each	100
Mid-Term Exam	1-3	100	100
Final Exam	1-5	100	100
<b>TOTAL:</b>			<b>500</b>

### Grade Determination

**A = 500 – 450 pts; i.e. 90% or better**

**B = 400 – 449 pts; i.e. 80 – 89 %**

**C = 350 – 399 pts; i.e. 70 – 79 %**

**D = 300 – 349 pts; i.e. 60 – 69 %**

**F = 299 pts. or below; i.e. less than 60%**

## University Policies and Procedures

**Students with Disabilities (ADA Compliance):** The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at <http://www.untDallas.edu/disability>. You may also contact them by phone at 972-338-1777; by email at [UNTDdisability@untDallas.edu](mailto:UNTDdisability@untDallas.edu) or at Founders Hall, room 204. (UNTD Policy 7.004)

**CourseEval Policy:** Student's evaluations of teaching effectiveness are a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

**Assignment Policy:** Turn in all assignments via Blackboard. No late assignments accepted.

**Exam Policy:** Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).

**Academic Integrity:** Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity (Policy 7.002) at [http://www.untDallas.edu/sites/default/files/page\\_level2/pdf/policy/7.002%20Code%20of%20Academic\\_Integrity.pdf](http://www.untDallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf) Refer to the Student Code of Student Rights, Responsibilities and Conduct at [http://www.untDallas.edu/sites/default/files/page\\_level2/hds0041/pdf/7\\_001\\_student\\_code\\_of\\_conduct\\_may\\_2014.pdf](http://www.untDallas.edu/sites/default/files/page_level2/hds0041/pdf/7_001_student_code_of_conduct_may_2014.pdf) Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. In addition, all academic work turned in for this class, including exams, papers and written assignments must include the following statement: *"On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy."*

**Bad Weather Policy:** Campus facilities will close and operations will be suspended when adverse weather and/or safety hazards exist on the UNTD campus or if travel to the campus is deemed dangerous as the result of ice, sleet or snow. In the event of a campus closure, the Marketing and Communication Department will report closure information to all appropriate major media by 7 a.m. That department will also update the UNTD website, Facebook and Twitter with closing information as soon as it is possible. For more information please refer to <http://www.untDallas.edu/police/resources/notifications>

**Attendance and Participation Policy:**

Class attendance and participation (both face to face and online) are expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class or via Blackboard. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings and online discussions are essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent. *The University attendance policy is in effect for this course. Please refer to Policy 7.005 Student Attendance at <http://www.untDallas.edu/hr/upol>*

**Diversity/Tolerance Policy:** Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive and inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Dean of Students as the instructor deems appropriate. (UNTD Policy 7.001)