Knowing and Learning in Science and Mathematics Course Syllabus NATS 3341.001& NATS 3341.002, Spring 2017

course milorn			
001 - M/W - S	SLC 1.214	1:00 - 2:15 PM	
		Professo	r Contact Information
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Course pre-requisites, co-requisites, and/or other restrictions: students should 1) have an interest in exploring teaching as a career and 2) Completion of Step 1 and completion of or concurrent enrollment in Step 2

Course Description:

Course Information

A goal of this course is for participants to develop a powerful tool kit of theory-driven approaches to knowing and learning in mathematics and science. The focus is primarily on issues of what it means to learn and know science and mathematics in a way that is intended to broaden our sense of what is possible in our educational practices. Some of the questions that will be addressed in the course include: What are the standards for knowing we can use? How is knowing and learning structured, and how does what we know change and develop? For science and mathematics educators, what are the tensions between general, cross-disciplinary characterizations of knowing (e.g., intelligence or the conditioning of behavior) and the specifics of coming to understand powerful ideas in mathematics and science? What are the links between knowing and developing in learning theory, and the content and evolution of scientific ideas? What are the connections between kinds of assessments and theories of knowing? How are various uses of technology associated with specific approaches to learning? A broader and, hopefully, richer sense of what is possible is to support the kind of "power in action" that helps us become ever more effective and creative science and mathematics educators.

Learning Outcomes:

*Students will construct models of knowing and learning to guide classroom practice.

* Students will articulate various standards for knowing mathematics and science and articulate the implications of these standards for assessment, especially standardized assessment. *Students will articulate what it means to know, learn and understand relative to cognitive structures and describe how what people know changes and develops.

* Students will describe various paradigms for evaluating science and mathematics understanding. *Students will use the clinical interview method to make sense of someone's reasoning about a topic in mathematics or science. Students will be able to evaluate science and mathematics content and apply it to the correct learning environment. *Students will describe the links between knowing and developing in learning theory and the content and evolution of scientific ideas.

*Students will complete a Philosophy of Teaching as the first step in development of their portfolio

Required Materials: Internet Access, email communication, eLearning Provided readings: How People Learn (HPL) http://www.nap.edu/openbook.php?record_id=6160

How Students Learn Mathematics/Science (HSL) http://www.nap.edu/openbook.php?record_id=10126

Schools For Thought (SFT)

http://cognet.mit.edu/library/books/view?isbn=0262521962

Month	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Jan 2017	9 Knowing and Understanding Reading Assignment: Class handout	10	11 Accountable Talk + Reading Strategy (Marking the Text) Reading Assignment: Reflection questions	12	13	14	15 Week 1 Reflection due at Noon
	16 MLK Day	17	18 Learning Environments Assign First Clinical Interview	19	20	21	22 Week 2 Reflection due at Noon
	23 Thinking and Understanding Reading Assignment: Reflection questions	24	25 Making Thinking Visible Reading Assignment: Reflection questions	26	27	28	29 Week 3 Reflection due at Noon
	30 Foundations of Assessment	31	1 Questioning Strategies Assignment: Reflection questions	2	3	4	5 Week 4 Reflection due at Noon
Feb 2017	6 Child/ Cognitive Development: How it influences learning	7	8 Nature vs Nurture Reading Assignment: Reflection questions Due: First Clinical Interview	9	10	11	12 Week 5 Reflection due at Noon
	13 Dyslexia- Understanding Student Differences:	14	15 Novice and Expert Reading Assignment: Reflection questions Assign: Second Clinical Interview	16	17	18	19 Week 6 Reflection due at Noon
	20 Brain Based Learning and Memory	21	22 Learning and Transfer Reading Assignment: Reflection questions Assign Mid-Term	23	24	25	26
	27 Learning Theory I - Behaviorism	28	1 Learning Theory II – Constructivism Reading Assignment Due: Mid-Term	2	3	4	5 Week 8 Reflection due at Noon

Month	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	6 Learning Theory III - Cognitivism	7	8 How Students Learn – Mathematics Instruction I Due: Second Clinical Interview	9	10	11	12
	13	14	15	16	17	18	19
	S	pring E	Break				
March 2017	20 How Students Learn: Mathematics Instruction II	21	22 How Students Learn: Science Instruction I Reading Assignment: Reflection questions Intro to Philosophy of Teaching Assign: Teaching Philosophy Statement	23	24	25	26 Week 10 Reflection due at Noon
	27 How Students Learn: Science Instruction II	28	29 Claims, Evidence and Reasoning Reading Assignment: Reflection questions	30	31	1	2 Week 11 Reflection due at Noon
April 2017	3 Problem Solving: Model Eliciting Activities' Due: First Draft of Teaching Philosophy – bring to class	4	5 Problem Solving: Anchored Instruction Reading Assignment: Reflection questions	6	7	8	9 Week 12 Reflection due at Noon
	10 How Students Learn- Literacy Instruction in Mathematics Reading Assignment	11	12 How Students Learn- Literacy Instruction in Science Reading Assignment: Reflection questions Due: Teaching Philosophy Statement	13	14	15	16 Week 13 Reflection due at Noon
	17 Technology Basics I Peer Review Teaching Philosophy	18	19 Technology Basics II Reading Assignment: Reflection questions	20	21	22	23 Week 14 Reflection due at Noon
	24 The Laughing Classroom	25	26 Final Exam Review Final Concept Map Due: Final Teaching Philosophy Statement Assign: Final Exam	27	28	29	30
Mav	1	2	3Final Exam Due at Midnight	4	5	6	7
2017	8	9	10	11	12	13	14

Class	Course Outline	Assignments/Notes	Educator Standards /CR
Beliefs About Knowing, Learning & Understanding January 9*	 What is Knowing and Understanding? Course Introduction and Overview Syllabus Overview 	 Discussion of Knowing, Learning and Understanding Class Activity: Just What do We Know and Understand <i>Reading Assignment:</i> What is Accountable Talk, Institute for Learning, Pam Goldman. Everything submitted must be in the following format: yourlastname_S17_description of document (e.g. superstudent_S17_first clinical interview) All assignments are due at or before time noted on the calendar 	 Discussion and Class Activity §228.30(a) 1.10k, 1.1k, 1.14k, 1.20k, 1.8s, 3.8k §228.30(d)(4)(b) §228.30(d)(4)(c) Reading: Goldman §228.30(a)) 1.20k, 2.1k, 2.2k. 2.3k, 2.4k, 2.5k, 2.16k, 2.17k, 2.2s, 3.1k, 3.4k §228.30 (d) (2)
Responsible Learning/ Responsible Teaching January 11*	 What is Accountable Talk? Reading Strategy- Marking the Text Intro to Learning Environments 	 Discussion of Accountable Talk Class Activity: The Planets in the Solar System Reading Assignment: How Students Learn: Science in the Classroom Chapter 1 Pages 1- 26 Reading Assignment: Benny's Conception of Rules and Answers in IPI Mathematics, S. H. Erlwanger Reflection Questions: eLearning Weekly Materials- Week One. 	Discussion and Class Activity §228.30(d) (2) §228.30(a) 1.20k, 2.1k, 2.2k. 2.3k, 2.4k, 2.5k, 2.16k, 2.17k, 2.2s, 3.1k, 3.4k §228.30(b) Reading: HPL §228.30 (a) 1.8k, 1.9k, 1.20k, 1.24k, 1.25k, 1.29k, 1.9s, 2.1k §228.30 (d)(4) §228.30(b) Reflection Questions §228.30(a) 1.8s, 2.2s
Learning Environments & Three Principles of Learning January 18	 What are the Three Principles of Learning? What are Learning Environments? First Clinical Interview 	 Discussion of the Three Principles of Learning. Class Activity: Bonita's Problem Discussion of Learning Environments Discussion of Erlwanger's Benny Assignment: View Private Universe Video http://www.learner.org/resources/series28. html Assign First Clinical Interview 	Discussion and Class Activity §228.30 (a) 1.8k, 1.9k, 1.20k, 1.24k, 1.25k, 1.29k, 1.9s, 2.1k, 2.2k, 2.3k, 2.21k, 2.2s, 2.20s, 3.10s §228.30(b) §228.30 (d)(4) Reading §228.30(a) 1.8k, 1.9k, 1.20k, 1.24k, 1.25k, 1.29k, 1.9s, 2.1k §228.30 (d)(4) First Clinical Interview 1.20k, 3.4s
Thinking and Understanding Using Models in the Classroom January 23*	 Why Use Models in the Classroom? How does the use of models help with Thinking and Understanding? What Learning Environments are present? 	 Class Activity: Lesson on Moon Phases Class Discussion: What Learning Environments were observed during the Lesson? <i>Reading Assignment:</i> Making Thinking Visible, Ron Ritchhart, Chapter 1 Pages 3-22 <i>Reflection Questions</i>: eLearning Weekly Materials- Week Two. 	Discussion and Class Activity • §228.30(a) 1.20k, 2.1k, 3.5k, 3.6k, 3.7k, 3.8k, 3.9k, 3.10k, 3.11k Reading • §228.30(a) 1.20k, 2.1k, 3.5k, 3.6k, 3.7k, 3.8k, 3.9k, 3.10k, 3.11k Reflection Questions • §228.30 (a) 1.20k, 2.1k, 3.5k, 3.6k, 3.7k, 3.8k, 3.9k, 3.10k, 3.11k, 1.23s

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Making Thinking Visible January 25*	What is Meant by Making Thinking Visible?	 Class Discussion: Making Thinking Visible Class Activity: Concept Maps Reading Assignment: Vygotsky's Sociocultural Perspective, Woolfolk Piaget, <u>http://webspace.ship.edu/cgboer/piaget.html</u> Kolb - Learning Styles, Saul McLeod Erik Erikson's Stages of Psychosocial Development, Kendra Cherry <i>Reflection Questions</i>: eLearning Weekly Materials 	Discussion and Class Activity §228.30(a) 1.20k, 1.29k §228.30(b) §228.30(d)(4)(b) Reading §228.30(a) 1.20k, 1.29k Reflection Questions §228.30(a) 3.4s, 3.5s, 1.20k, 1.29k §228.30(b) §228.30(b) §228.30(d)(4)(b)
Foundations of Assessment January 30	Foundations of Assessment	 Class Discussion: Formative Assessments Class Activity: Make a Little Book <i>Reading Assignment:</i> Educational Leadership, The Best Value in Formative Assessment Inside the Black Box, Black and Wiliam, 2001 	 Discussion and Class Activity §228.30(a) 1.4k, 1.8k. 1.9k. 1.10k, 1.11k, 1.16k, 1.17k, 1.24k, 1.25k, 1.26k, 1.27k 1.28k, 1.29k, 1.30k, 2.6k, 3.4k, 3.12k. 3.13k, 3.14k, 3.15k, 3.16k Reading §228.30(a) 1.4k, 1.8k. 1.9k. 1.10k, 1.11k, 1.16k, 1.17k, 1.24k, 1.25k, 1.26k, 1.27k 1.28k, 1.29k, 1.30k, 2.6k, 3.4k, 3.12k. 3.13k, 3.14k, 3.15k, 3.16k
Questioning Strategies February 1*	Questioning Strategies	 Class Discussion: Questioning Class Activity: Interactive Notebook <i>Reading Assignment:</i> How Can Quality Questioning Transform Classrooms? Chapter 1, Pages 1-21 <i>Reflection Questions</i>: eLearning Weekly Materials 	 Discussion and Class Activity §228.30(a) 1.4k, 1.8k. 1.9k. 1.10k, 1.11k, 1.16k, 1.17k, 1.24k, 1.25k, 1.26k, 1.27k 1.28k, 1.29k, 1.30k, 2.6k, 3.4k, 3.12k. 3.13k, 3.14k, 3.15k, 3.16k, 3.6s Reading §228.30(a) 1.4k, 1.8k. 1.9k. 1.10k, 1.11k, 1.16k, 1.17k, 1.24k, 1.25k, 1.26k, 1.27k 1.28k, 1.29k, 1.30k, 2.6k, 3.4k, 3.12k. 3.13k, 3.14k, 3.15k, 3.16k, 3.6s Reflection Questions 228.30(a) 1.4k, 1.8k. 1.9k. 1.10k, 1.11k, 1.16k, 1.17k, 1.24k, 1.25k, 1.26k, 1.27k 1.28k, 1.29k, 1.30k, 2.6k, 3.4k, 3.12k. 3.13k, 3.14k, 3.15k, 3.16k, 3.6s
Child/Cognitive Development February 6	Child/Cognitive Development: How it influences learning Piaget, Vygotsky, Kolb, Erikson and Gardner	 Class Discussion: Cognitive Development according to Piaget, Vygotsky, Kolb, and Erikson Class Activity: Venn Diagram comparing the theorists 	Discussion and Class Activity • §228.30 (a) 1.1k, 1.2k, 1.3k, 1.4k, 1.5k, 1.12k • §228.30 (b) • §228.30 (d)(4)(b)

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Nature vs Nurture February 8*	Is Learning due to Nature or Nurture? (Watson and Bandura) The Development of Expertise	 Class Discussion: Nature vs Nurture <i>Reading Assignment:</i> Nature vs Nurture in Intelligence <u>http://wilderdom.com/personality/</u> <u>L4-1IntelligenceNature VsNurture.html</u> Dyslexia. Sally E. Shaywitz, Scientific American <i>Reflection Questions</i>: eLearning Weekly Materials Due: First Clinical Interview 	 Discussion §228.30(a) 1.1k, 1.2k, 1.3k, 1.5k, 1.12k Reading §228.30(c) (2) §228.30(a) 1.3k, 1.4k, 1.14k Reflection Questions §228.30(a) 1.1s, 1.1k, 1.2k, 1.3k, 1.5k, 1.12k
Dyslexia Instruction February 13	Dyslexia Instruction Understanding Individual learning needs and differentiated instruction	 Class Discussion: Dyslexia Instruction and Accommodations <i>Reading Assignment:</i> How People Learn, Chapter 2, How Experts Differ from Novices, Pages 31-50 	Discussion • §228.30 (c) (2) §228.30(a) 1.3k, 1.4k, 1.14k, 1.2s, 1.3s Reading • §228.30 (d) (4)(c)
Novice and Expert February 15*	Novice and Expert: What are the real differences?	 Class Discussion: Experts vs Novices Reading Assignment: Human Memory Atkinson-Shiffrin Model, <u>http://users.ipfw.edu/</u> <u>abbott/120/AtkinsonShifrin.html</u> Reflection Questions: eLearning Weekly Materials Assign: Second Clinical Interview 	Discussion and Class Activity §228.30(d)(4)(c) §228.30(a)1.2k, 1.3k, 1.4k, 1.17k Reading §228.30(d)(4)(c) Reflection Questions §228.30(d)(4)(c) §228.30(a)1.2k, 1.3k, 1.4k, 1.17k
Brain Based Learning and Memory February 20	What do we know about Memory? What is Brain Based Learning?	 Class Discussion: Memory and Brain-Based Learning Class Activity: Memory <i>Reading Assignment:</i> How the Brain Learns, David Sousa, 	 Discussion and Class Activity §228.30(a) 1.4k, 1.20k, 1.22k Reading §228.30(d)(4)(c)
Learning and Transfer February 22*	Learning and Transfer	 Class Discussion: Learning and Transfer Class Activity: Circumference of the Earth <i>Reading Assignment:</i> How People Learn, Chapter 3, Learning and Transfer, Pages 51- 78 <i>Reflection Questions</i>: eLearning Weekly Materials. Assign Mid-Term 	 Discussion and Class Activity §228.30(a) 1.4k, 1.9k, 1.20k, 1.22k, 3.7k, Reading §228.30(a) 1.4k, 1.9k, 1.20k, 1.22k, 3.7k, Reflection Questions §228.30(a) 1.4k, 1.9k, 1.20k, 1.22k, 3.7k,
Learning Theory I – Behaviorism February 27	Learning Theory I – Behaviorism Pavlov, Skinner	 Class Discussion: Behaviorism Class Activity: Skeletal System Activity <i>Reading Assignment:</i> Surely You're Joking Mr. Feynman, Pages 211-219 	 Discussion and Class Activity §228.30 (a) 1.4k, 1.20k, 2.13k, 2.18k, 3.10k §228.30 (d)(b) Reading §228.30 (a) 1.4k, 1.20k, 2.13k, 2.18k, 3.10k §228.30 (d)(b)
Learning Theory II – Constructivism March 1*	Learning Theory II – Constructivism Bruner	 Class Discussion: Constructivism Class Activity: Tilling the Pool Activity Due: Mid-Term Exam 	 Discussion and Class Activity §228.30(a) 1.4k, 1.20k, 3.10k Reading §228.30(a) 1.4k, 1.20k, 3.10k

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Learning Theory III – Cognitivism March 6	Learning Theory III – Cognitivism Ausubel	 Class Discussion: Cognitivism Class Activity: Imagine You're a Seventh Grade Math Teacher Activity <i>Reading Assignment:</i> Promoting Learning in Middle-Grades Mathematics, Sowder and Philipp, Pages 89-107 	 Discussion and Class Activity §228.30(a) 1.4k, 1.20k, 3.10k Reading §228.30(a) 1.4k, 1.20k, 3.10k
Mathematics Instruction I March 8*	How Students Learn – Mathematics Instruction I	 Class Discussion: Middle School Vignettes <i>Reading Assignment:</i> Adding It Up: Helping Children Learn Mathematics, Chapter 4, Pages 115-155 <i>Reflection Questions</i>: eLearning Weekly Materials Due: Second Clinical Interview 	 Discussion and Class Activity §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30(d)(4)(c) Reading §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30(d)(4)(c) Reflection Questions §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30(a) (1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30(d)(4)(c)
Mathematics Instruction II March 20	How Students Learn: Mathematics Instruction II	 Class Discussion: Math Proficiencies Class Activity: Average Daily Attendance Activity <i>Reading Assignment:</i> Taking Science to School: Learning and Teaching Science in Grades K-8, Chapter 2, Pages 26-49 	 Discussion and Class Activity §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30(d)(4)(c) Reading §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30(d)(4)(c)
Science Instruction I March 22*	How Students Learn: Science Instruction I	 Class Discussion: Science Proficiencies Class Activity: Email Lab Class Activity: Science Process Lab Reading Assignment: Teaching Science Though Inquiry, The Science Teacher, Sept 2015, Pages 62-67 Reflection Questions: eLearning Weekly Materials Assign: Teaching Philosophy Statement 	 Discussion and Class Activity §228.30 (a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k, 3.6k, 3.7k, 3.8k, 3.10k §228.30(d)(4)(c) Reading §228.30 (a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30(d)(4)(c) Reflection Questions §228.30 (a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30 (a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30 (d)(4)(c)
Science Instruction II March 27	How Students Learn: Science Instruction II	 Class Discussion: Inquiry Lessons Class Activity: Inquiry Lab <i>Reading Assignment:</i> Getting Past "Just Because" Teaching Writing in Science Class 	 Discussion and Class Activity §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k, 3.6k, 3.7k, 3.8k, 3.10k §228.30(d)(4)(c) Reading §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k §228.30(d)(4)(c)
Argument Driven Inquiry March 29*	Claims, Evidence and Reasoning Argument Driven Inquiry Intro to Philosophy of	 Class Discussion: Argument Driven Inquiry <i>Reflection Questions</i>: eLearning Weekly Materials <i>Reading Assignment:</i> How To Solve It, Polya 1957 	Discussion and Class Activity • §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k, 1.11s • §228.30(d)(4)(c) Reading

Class	Course Outline	Assignments/Notes	Educator Standards /CR
	Teaching	Class Discussion: Model Eliciting Activities	 §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k, 1.11s §228.30(d)(4)(c) Reflection Questions §228.30(a) 1.4s, 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k, 1.11s §228.30(d)(4)(c) Teaching Philosophy §228.30(a) 1.7s, 1.11s, 1.15s, 3.6k, 3.7k, 3.8k, 3.10k
Problem Solving I: April 3	Problem Solving: Model Eliciting Activities	 Class Discussion: Model Eliciting Activities Class Activity: Model Eliciting Activity- Soccer Games <i>Reading Assignment:</i> Investigating the Relationship Between the Problem and the Solver, Carmona and Greenstein Due: First Draft of Teaching Philosophy – bring to class 	 §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k Reading §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k
Problem Solving II: April 5*	Problem Solving: Anchored Instruction	 Class Discussion: Anchored Instruction Class Activity: Anchored Instruction- Jasper Project <i>Reading Assignment:</i> Anchored Instruction, Brian Bottge <i>Reflection Questions:</i> eLearning Weekly Materials 	 Discussion and Class Activity §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k Reading §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k Reflection Questions §228.30(a) 1.4k, 1.7k, 1.8k, 1.19k, 1.20k, 1.22k
How Students Learn- Literacy Instruction in Mathematics April 10	How Students Learn- Literacy Instruction in Mathematics	 Class Discussion: Math Literacy Class Activity: One Grain of Rice Reading Assignment: Literacy Strategies for Improving Mathematics Instruction: Chapter 1 - Mathematics as Language, Joan M. Kenney Chapter 2 - Reading in the Mathematics Classroom, Diana Metsisto 	Discussion and Class Activity §228.30(a) 1.4k, 1.8k §228.30(d)(2) 2.2k, 2.3s, 2.4k, 2.7k,2.8k Reading 228.30(a) 1.4k, 1.8k §228.30(d)(2) 2.2k, 2.3s, 2.4k, 2.7k, 2.8k
How Students Learn: Literacy Instruction in Science April 12*	How Students Learn: Literacy Instruction in Science Vocabulary Strategies and Word analysis	 Class Discussion: Science Literacy Class Activity: Reading Strategies <i>Reading Assignment:</i> Educational Leadership: What Students Need to Learn: Teaching Science Literacy Strategies for the Phases of Cognitive Processing <i>Reflection Questions</i>: eLearning Weekly Materials Due: Teaching Philosophy Statement 	Discussion and Class Activity §228.30(a) 1.4k, 1.8k, 1.11k §228.30(d)(2) 2.2k, 2.3s, 2.4s, 2.5s, 2.4k, 2.7s, 2.7k,2.8k Reading §228.30(a) 1.4k, 1.8k, 1.11k §228.30(d)(2) 2.2k, 2.3s, 2.4s, 2.5s, 2.4k, 2.7s, 2.7k,2.8k Reflection Questions §228.30(a) 1.4k, 1.8k, 1.11k §228.30(d)(2) 2.2k, 2.3s, 2.4s, 2.5s, 2.4k, 2.7s, 2.7k,2.8k
Technology Basics I April 17	Technology Basics I Peer Review Teaching Philosophy	 Class Discussion: Technology in the Classroom Class Activity: Website Evaluations <i>Reading Assignment:</i> Brain-Based Teaching in a Digital Age, Chapter 1, Pages 3-15, Sprenger 	Discussion and Class Activity §228.30 (a) 1.4k, 1.8k, 1.10k, 1.11k, 1.17k, 1.28k, 1.17s, Tech Apps III, IV Reading §228.30 (a) 1.4k, 1.8k, 1.10k,

Class	Course Outline	Assignments/Notes	Educator Standards /CR
			1.11k, 1.17k, 1.28k
			Tech Apps III, IV
Technology Basics II April 19*	Technology Basics II	 Class Discussion: The Flipped Classroom Class Activity: Continue with Website Evaluations <i>Reading Assignment</i> Flipping Tools for the Science Classroom, NSTA, March 2015 <i>Reflection Questions</i>: eLearning Weekly Materials 	Discussion and Class Activity • §228.30(a) 1.4k, 1.8k, 1.10k. 1.11k, 1.17k, 1.28k, 1.17s • Tech Apps III, IV Reading • 228.30(a) 1.4k, 1.8k, 1.10k. 1.11k, 1.17k, 1.28k, 1.17s • Tech Apps III, IV Reflection Questions • 228.30(a) 1.4k, 1.8k, 1.10k. 1.11k, 1.17k, 1.28k, 1.17s • Tech Apps III, IV
The Laughing Classroom April 24	The Laughing Classroom	Class Discussion: Laughter in the Classroom	Discussion and Class Activity • §228.30(d) (2) • §228.30(a) 1.20k, 2.1k, 2.2k. 2.3k, 2.4k, 2.5k, 2.16k, 2.17k, 2.2s, 3.1k, 3.4k • §228.30(b)
Final Exam Review April 26	Final Exam Review Final Concept Map	 Class Discussion: Important Concepts Presented this Semester Class Activity: Develop Concept Map Due: Final Teaching Philosophy Statement 	Discussion and Class Activity • §228.30(a) • §228.30(b) • §228.30(d) (2) –(4)
May 3	Final Exam Due at Midnight		

UT Dallas Practicing Teacher Compliance Policies

As a student in this course, you are expected to comply with Texas Administrative Code (TAC), Title 19, Part 7, Chapter 247, Rule §247.2 – Code of Ethics and Standard Practices for Texas Educators and the UT Dallas Fitness to Teach Policy. **Website:**

http://info.sos.state.tx.us/pls/pub/readtac\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&p_t=7&ch=247&rl=2

Course Policies

	•Readings	30%					
	To be completed as noted in the schedule above. They will be completed through the						
	Assessments link on eLearning. Questions will need to be completed by the following						
	Sunday at 11:59am						
	•Class Participation	5%					
	•Teaching Philosophy Statement	10%					
	•Clinical Interview 1	10%					
	To be completed utilizing the guidelines provided.						
Grading (cradit)	•Clinical Interview 2	15%					
Graung (creuit)	Interview in greater depth to be completed using guidelines provided.						
Citteria	•Mid-Term exam	15%					
	Analysis and application of concepts presented up to this point.						
	•Final Exam	15%					
	Analysis and application of concepts presented during the entire semester.						
	The semester grade will be determined by total number of points accrued in each category. An overall						
	percentage will be calculated with the following grades applied:						
	97-100% A+ 87-89% B+ 77-79% C+						

	94-96% A 84-86% B 74-76% C								
	90-93% A- 80-83% B- 70-73% C-								
	Any Grades calculated below 70% will be considered failing.								
	Make-up exams will only be allowed under extreme circumstances. Students must contact the instructor								
wake-up exams	prior to the exam to qualify.								
Lata Work	Late work will be accepted with a 10% deduction in the grade for each day an assignment is late. This								
Late work	begins at the time the class ends on the assignment due date.								
Class Attendance	Required. An absence rate of greater than 10% will result in a letter grade reduction.								
Classroom	Students are expected to present themselves as professionals and work in a cooperative learning								
Citizenship	environment. Cell phones will not be utilized during class time (to include calls, texting and web surfing)								
UT Dallas	The information contained in the following link constitutes the University's policies and procedures								
Syllabus Policies	segment of the course syllabus.								
and Procedures	Please go to http://provost.utdallas.edu/syllabus-policies/ for these policies.								
	You have the right to raise a concern or lodge a complaint and to seek redress in areas where you feel that								
	the program did not fulfill requirements for certification or for actions that you feel are wrong.								
	To raise a concern or file a complaint: 1. Contact UTeach Dallas Associate Director, Katie Donaldson, with your complaint								
	at kate.donaldson@utdallas.eduor 972-883-6427.								
UTeach Dallas	2. If your concern is not resolved to your satisfaction and you want to speak with someone else,								
Complaints	contact UTeach Dallas Co-Director, Dr. Mary Urquhart, at urquhart@utdallas.edu or 972-883-								
Procedure	6485 to schedule an appointment.								
	All conferences are confidential.								
	The University of Texas at Dallas Student Complaint Resources page is also a resource and may be found at								
	http://catalog.utdallas.edu/2013/undergraduate/resources/student-complaints								
	You also have the right to file a complaint about UTeach Dallas directly to the Texas Education Agency								
	(TEA) at <u>www.tea.texas.gov</u> .								
Campus Carry	The University's concealed handgun policy is posted on the campus carry website:								
campus carry	http://www.utdallas.edu/campuscarry/								

These descriptions and timelines are subject to change at the discretion of the Professor.

Rubric for Evaluating Class Participation

Spring 2017

	Strong Work ¹	Needs Development	Unsatisfactory
Listening	Actively and respectfully listens to peers and instructor	Sometimes displays lack of interest in comments of others	Projects lack of interest or disrespect for others
Preparation	Arrives fully prepared with all assignments completed, and notes on reading, observations, questions	Sometimes arrives unprepared or with only superficial preparation	Exhibits little evidence of having read or thought about assigned material
Quality of contributions	Comments are relevant and reflect understanding of: assigned text(s); previous remarks of other students; and insights about assigned material	Comments sometimes irrelevant, betray lack of preparation, or indicate lack of attention to previous remarks of other students	Comments reflect little understanding of either the assignment or previous remarks in seminar
Impact on seminar	Comments frequently help move seminar conversation forward	Comments sometimes advance the conversation, but sometimes do little to move it forward	Comments do not advance the conversation or are actively harmful to it
Frequency of participation	Actively participates at appropriate times	Sometimes participates but at other times is "tuned out"	Seldom participates and is generally not engaged

¹ Class participation is worth 50 points or 5% of the entire semester grade. The mid-term grade will include class participation up to that point in the semester.

http://www1.villanova.edu/villanova/artsci/acsp/resources/rubric.html