



OUTCOME	Priority/Emphasis	Where/When addressed
1. Demonstrate literacy in basic principles and knowledge of content in the Mathematics area.	MEDIUM	When students teach during class (at least twice) Possible topics include arithmetic algebra, statistics, trigonometry, calculus
2. Understand and apply basic learning theories and models in the classroom.	Minimum	Readings during the course, and when students develop lesson plans and give practice lessons during class
3. Use student input and information from diagnosis of student learning needs to develop learning outcomes.	Minimum	Readings during the course, and when students develop lesson plans and give practice lessons during class
4. Evaluate teaching and curriculum resources for effective use in the institutional process.	Medium	when students develop lesson plans and give practice lessons during class, and Final enrichment activities project
5. Plan lessons which use authentic situations and previous learning	HIGH	Readings during the course, and when students develop lesson plans and when preparing practice lessons to be given in class
6. Provide learning experiences which actively engage students as individuals and as members of collaborative groups.	HIGH	Throughout course

7. Create a communication-rich environment that supports and encourages (mathematics) language development and use.	Medium	Throughout course
8. Use a variety of instructional strategies to meet the needs of diverse learners, including students of diverse cultural backgrounds.	Medium	Readings during the course and DVD of Mathematics lessons taught in several different countries, and when students develop lesson plans and give practice lessons during class
9. Use current curriculum standards to construct assessments, identify performance indicators, and create lessons needed to prepare for the assessments.	Medium	Students will be asked to construct an evaluation (exam) and appropriate assessment tool (rubric)
10. Use effective classroom management techniques that foster positive interpersonal relationships, self-control, self-discipline, and responsibility.	Minimum	Readings and discussion of being well prepared for class each day helps with classroom management. Students will have experience to learn when practice teaching during class
11. Use community and parent resources as an integral part of the teaching process to promote student learning	NA	
12. Demonstrate competency in the use of technologies available in the school setting.	Minimal	students will be encouraged to use appropriate technologies when developing and giving practice lessons during the course
13. Work collaboratively with other professionals. (Peers)	Medium	students will often work in groups to complete assigned tasks, and will use “lesson study” for one of their practice lessons

14. Demonstrate positive dispositions (attitudes, actions, ethics, and good work habits) in line with those required for the profession	MEDIUM	demonstrated throughout the course with assigned tasks, practice teaching and peer reviews
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### ***PROPOSED CLASS CALENDER***

**Wednesday, August 30**

Introduction, **Questionnaires**  
 NCTM web site: <http://www.nctm.org>  
 Sign up for Teaching Experiences

**Assign: Read *Mathematics as a Process* Ch 1**

Teacher: **Joshua Tune** (20 min. lesson, 5 min refl.)

**Monday, Sept. 18**

Teacher: **Leslie Thompson-Trigoso** (20 m less. 5m refl.)  
 (Prepare Reports)  
 Teacher: **Kellen Castillo** (20 min. lesson, 5 min refl.)

**Friday, Sept. 1**

**“Doing Math” Reports**  
 Watch Video Tapes

**Assign: Read *Learning Theories in Mathematics***

**Wednesday, Sept. 20**

Teacher: **Christy Cho** (20 min. lesson, 5 min refl.)  
 Ch 2 pages 35 - 54  
 Teacher: **M. Samir** (20 min. lesson, 5 min refl.)

**Monday, Sept. 4**

Labor Day Holiday—No classes held

**Friday, Sept. 22**

Teacher: **Michelle Snoy** (20 min. lesson, 5 min refl.)  
 Teacher: **Natasha Davis** (20 min. lesson, 5 min refl.)

**Wednesday, Sept. 6**

Discuss Learning Theories  
 Watch TIMSS Tapes

**Assign: Reflection of TIMSS**  
**Description of your typical high school math class**

**Monday, Sept. 25**

Teacher: **Cara Oliphant** (20 min. lesson, 5 min refl.)  
 Teacher: **Teng Fink** (20 min. lesson, 5 min refl.)

**Assign: Read *Selection and Organization of Resources* Ch. 4 pages 104 - 113**

**Friday, Sept. 8**

Watch TIMSS Tapes

**Assign: Reflection of TIMSS**  
**Read *Writing Goals and Objectives* Ch. 4 pages 95-103**  
**Read *Planning for Instruction* Ch. 5**

**Wednesday, Sept. 27**

Teacher: **Roneil** (20 min. lesson, 5 min refl.)  
 Resource Cards & Acts. Discussion  
 Read Appendix A pages 360-361  
**Assign: Read *The Role of Assessment* Ch 8**

**Monday, Sept. 11**

Discuss Lesson Plans and PUFM  
 Begin Teaching Strategies

**Assign: Read *Teaching Tools & Strategies* Ch. 6**

**Friday, Sept. 29**

**Wednesday, Sept. 13**

Teaching Strategies Continued

**Assign: Read *Teaching Tools & Strategies* Ch. 6**

**Friday, Sept 15**

Teacher: **Alan Van Platter** (20 min. lesson, 5 min refl.)

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Reading Assignment (Exams)  
Work on Exam Key and Grading Rubric

**Monday, Oct. 2**

**Grading Exams and Rubrics**  
Selected Topic as time permits

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**Wednesday, Oct. 4**

Selected topic

**Assign: Write an Exam with at least 7 nonroutine questions and at least 5 routine questions. Identify each question, due 11/2/05. Also, create an Instructor's Solutions Guide and grading rubric for exam**

**Friday, Oct. 6**

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**Monday, Oct. 9**

Lesson: **Add Integers** Teacher

1. 3.3-34 pps.58-64 **Teng**

Lesson: **Subtract Integers** Teacher

2. 3.5 pps. 65-68

**Joshua**

**Wednesday, Oct. 11**

**Lesson: Multiply Integers**

1. 3.6 pps. 69-72

Teacher

**Leslie**

**Lesson: Divide Integers**

2. 3.7 pps. 73-75

Teacher

**Michelle**

**Friday, Oct 13**

**Lesson: Solving Equations**

1. 3.9, 3.9A pps. 78-83

Teacher

**Cara**

**Lesson: Relations & Functions**

2. 4.2, pps. 179-184

Teacher

**Natasha**

**Monday, Oct. 16**

Class will not be held– Work Day  
work on your lesson plan, teaching reflection,  
resource activities, written exam with grading rubric

**Wednesday, Oct. 18**

**Lesson: Graphs of Functions**

1. 4.3, pps. 185-190

Teacher

**Roneil**

**Lesson: Linear Functions**

2. 4.4, pps. 191-196

Teacher

**Kellen**

**Friday, Oct 20**

**Lesson: Solve Eqs. by Graphing**

1. 4.7 pps. 203-207

Teacher

**Christy**

**Lesson: Qualitative Graphing**

2. 4.8 pps. 208-211

Teacher

**Alan**

**Assign: Read Lesson Study Handout**

**Monday, Oct. 23**

**Lesson: Explore Statistics**

1. 4.9 pps. 212-217

Teacher

**Samir**

Selected Topic (Lesson Study)

**Wednesday, Oct. 25**

Selected Topic PUFM and/or Proof??

**Friday, Oct 27**

Selected topic

**Topics for Resource Activities Due**

**Reminder: Write an Exam with Key and Rubric**

**Monday, Oct 30**

Selected Topic

**Wednesday, Nov. 1**

Selected Topic

**Friday, Nov. 3**

**Lesson: Periodic Functions**

9.1 pps. 284 - 292

Teacher

**Roneil**

**Monday, Nov. 6**

**Lesson: Radian Measure**

9.3, pps. 299-305

Teacher

**Christy**

**Wednesday, Nov. 8**

**Lesson: Sine Function**

9.4, pps. 306-312

Teacher

**Cara**

**Friday, Nov. 10**

**Lesson: Cosine and Tangent**

9.5, pps. 313-319

Teacher

**Natasha**

**Written Exam Due**

**Monday, Nov. 13**

**Lesson: Right Triangles**

9.6, pps. 320-326

Teacher

**Kellen**

**Wednesday, Nov. 15**

**Lesson: Trig. Identities**

7.1 pps. 421 - 428

Teacher

**Samir**

**Friday, Nov. 17**

**Lesson: Perms. & Combs.**

12.6 pps. 740 - 747

Teacher

**Teng**

**Monday, Nov. 20**

**Lesson: Inst. Rate of Change**

2.2 Appendix pps. 176-200

Teacher

**Joshua**

**Wednesday, Nov. 22**

Selected Topic

**Monday, Nov. 27**

**Lesson: Optimization**

3.5 Appendix pps. 266-28

Teacher

**Leslie**

**Wednesday, Nov. 29**

**Lesson: Definite Integral**

6.1,6.3 Appendix pps. 322-332,  
and pps. 347-361

Teacher

**Michelle**

**Friday, Dec. 1**

**Lesson: Vol. of Solids**

5.1, 5.2 pps.393-413

Teacher

**Alan**

**Monday, Dec. 4**

Prepare for Final

**Wednesday, Dec. 6**

**Student Presentations**

**Friday, Dec. 8**

**Student Presentations**