ED 3510 & ED 3511  *Communicating Science* - Fall 2007

**COURSE SCHEDULE**

**Week #1 - Tuesday, September 4 ~ 7:00 - 9:00 PM**
**Topic:** Course Overview & Teaching the Scientific Method
**Assignment:** Read three National Science Teachers’ Association (NSTA) position papers on elementary science education, parent involvement, and informal science; write a one-page reflection comparing the NSTA position statements to your own elementary school experiences.  **Due:** 7 PM, Tuesday, Sept. 12

**Week #2 - Tuesday, Sept. 11 ~ 7:00 - 9:00 PM**
**Topic:** Learning Styles & Michigan Content Standards; Developing Lesson Plans: introductions, attention-getters, safety, sample activities, questioning skills, fillers, and summaries
**Assignment:** Find age-appropriate activities that you could present at a family science night to EACH of the following age groups: Grades 1-2, 3-4, 5-6. The three activities should come from three different sources (activity guides, internet, NSTA Science & Children journal, faculty, elementary teachers). For each age group: list the activity title, source (complete bibliography), and science and math content standard addressed. Also, attach a copy of the activity if it is not in a publication not at the Center.  **Due:** Tues, Sept. 18 (email)

**Week #3 - Tuesday, Sept. 18 ~ 7:00 - 9:00 PM**
**Topic:** Developing Lesson Plans: introductions, attention-getters, safety, sample activities, questioning skills, fillers, and summaries
**Assignment:** Develop draft lesson plan.  **Due:** Tuesday Sept. 25 (email to jchadde@mtu.edu)

**Week #4 - Tuesday, Sept. 25 ~ 5-9 PM (depart 4:45 pm; return to MTU at 9 pm)**
(1) **Family Science Night**
ED 3510 students are presentation assistants.
**Assignment:**
(a) Draft lesson plan returned with comments by Friday, Sept. 29. Modify your draft lesson plan, as needed.  **FINAL Lesson Plan #1 due: Friday, Sept. 28.** Prepare 30-minute presentation of your lesson plan to deliver in class on Oct. 3.
(b) Complete critique of the presenter observed on Sept. 26.

**Week #5 - Tues., Oct. 2 ~ Practice Presentations** (Sign up for 1.5 hr slot)
Conduct your presentation and observe another student’s presentation.
**Assignment:**  **Final Lesson Plan due 5 PM, Monday, Oct. 6**
Practice your family science night presentation at home.

**Week #5 - Wednesday, Oct. 3 ~ 5:00 - 8:30 PM  (Depart 4:45 PM)**
(2) **Family Forest Night at Baraga School Forest**
Optional date to observe, assist and/or present.

**Week #5 - Sat./Sun., Oct. 6-7 ~ Family Outdoor Weekend in the Keweenaw**
(Saturday & Sunday noon-4 pm) Optional date to present an activity at one of four Michigan Nature Association sanctuaries in the Keweenaw Peninsula: Redwyn Dunes, Estivant Pines, Keweenaw Shore/Esrey Park, Jim Rooks Memorial Sanctuary).

**Week #6 - Tuesday, Oct. 9 ~ 4:30 - 8:30 PM  (Depart 105 Dillman at 4:30 pm)**
(3) **Family Science Night**
**Assignment:** One-page self-critique.  **Due:** 5 PM, Friday, Oct. 12

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Week #7 - Tuesday, Oct. 16 ~ 4:30 - 8:30 PM  (Depart 105 Dillman at 4:30 pm)
(4) Family Science Night at CLK Elementary School
Assignment:
   (a) One-page self-critique.  **Due:**  5 PM, Friday, Oct. 19
   (b) Lesson Plan #2 due 5 PM, Tuesday, Oct. 23

Week #8 - Tuesday, Oct. 23 ~ 4:30 - 9 PM  (Depart 105 Dillman at 4:15 pm)
(5) Family Science Night
Assignment:  One-page self-critique.  **Due:**  5 PM, Friday, Oct. 19

Week #9 - Tues. Oct. 30  _Practice Presentations_ (Sign up for 1-1/2-hr slot 1-9PM)
Conduct your presentation and observe another student's presentation.
_Delivering An Effective Science Night Presentation & Classroom Management_
Assignment:
   (a) **Final Lesson Plan due 9 am, Monday, Nov. 5**
   (b) Practice your family science night presentation at home.

Week #10 - Tuesday, Nov. 6 ~ 4:30 - 9 PM  (Depart 4:45 PM)
(6) Family Science Night
Assignment:  One-page self-critique.  **Due:**  5 PM, Friday, Oct. 19

Week #12 - Tuesday, Nov. 13 ~ 4:30 - 9 PM  _(Depart 4:45 PM)_
(7) Family Science Night
Assignment:  One-page self-critique.  **Due:**  5 PM, Friday, Oct. 19

**Tuesday, Nov. 21 ~ Thanksgiving Break ~ NO CLASS**

Week #13 - Tuesday, Nov. 27 ~ Family Science Night  (Depart 4:45 PM)
(8) Family Science Night:
Assignment: Prepare 1-page self-critique of your presentation.  **Due:**  5 PM, Friday, Dec. 1

Week #14 - Tuesday, Dec. 4 ~ Family Science Night  (Depart 105 Dillman, 4:15 PM)
(9) Family Science Night:
Assignment:
   (a) Prepare 1-page self-critique of your presentation.  **Due:**  5 PM, Friday, Dec. 14
   (b) Write final reflection paper and email to jchadde@mtu.edu.  **Due:**  Friday, Dec. 7

**Finals Week - 7-9 pm, Tuesday, December 11 ~ LAST CLASS**
**Topic:**  Wrap-up and sharing.  Final reflection paper due.  Complete course evaluations.