ED 3510 & ED 3511 Communicating Science - Fall 2009

COURSE SCHEDULE

Week #1 - Tuesday, September 1 ~ 7:00 - 9:00 PM
Topic: Course Overview & Teaching Inquiry and 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. 8

Week #2 - Tuesday, Sept. 8 ~ 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. 15 (email)

OPTIONAL ~ Week #3 - Monday, Sept. 14 ~ 6:30-8:00 PM Family Forest Night
Location TBA. (Depart at 4:45 pm; return to MTU at 8:30 pm)
Observe, assist and/or present.

Week #3 - Tuesday, Sept. 15 ~ 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: Friday Sept. 18 (email to jchadde@mtu.edu) Prepare for practice presentation on Sept. 28-30. Draft lesson plan will be returned with comments by Wed, Sept. 23. Modify your draft lesson plan, as needed. FINAL Lesson Plan #1 due: Wednesday, Sept. 30. Prepare 40-minute presentation of your lesson on Sept. 28-30 (NO NIGHT CLASS ON SEPT. 29).

OPTIONAL ~ Week #4 - Monday, Sept. 21 ~ 6:30-8:00 PM Family Forest Night
Location TBA. (Depart 5 pm; return to MTU at 8:30 pm)
Observe, assist and/or present.

Week #4 - Tuesday, Sept. 22 6:00-7:30 PM CST (depart 4:00 pm; return to MTU at 11:00 pm)
(1) Family Science Night- Location TBA
Assignment: Presenter critique due Sept. 25. Observe, assist and/or present.

Week #5 - Mon-Wed, Sept. 28-30 ~ Practice Presentations (Sign up for 1.5 hr slot during day)
Assignment: Final Lesson Plan due Sept. 30. Practice your family science night presentation at home.

OPTIONAL ~ Week #6 - Monday, Oct. 5 ~ 6:00-7:30 PM Family Forest Night
Location TBA. (Depart at 4:45 pm; return to MTU at 8:30 pm)
Observe, assist and/or present.

Week #6 - Tuesday, Oct. 6 ~ 4:30 - 8:30 PM (Depart 105 Dillman at 4:30 pm; return 8:45 pm)
(2) Family Science Night- Location TBA- first presentations!
Assignment: One-page self-critique. Due: 5 PM, Friday, Oct. 9
Week #7 - Tuesday, Oct. 13 ~ 4:30 – 8:30 PM  (Depart 105 Dillman at 4:30 pm; return 9 pm)
(3) Family Science Night-Location TBA.
Assignment:
   (a) One-page self-critique.  **Due:**  5 PM, Friday, Oct. 16
   (b) Lesson Plan #2 due 5 PM, Friday, Oct. 23

Week #8 - Tuesday, Oct. 20 ~ 4:30 – 9 PM  (Depart 105 Dillman at 4:15 pm)
(4) Family Science Night-Location TBA **Family Engineering activities**
Assignment:  One-page self-critique.  **Due:**  5 PM, Friday, Oct. 23

Week #9 - Tues-Thurs. Oct. 27-29  **Practice Presentations**  (Sign up for 1-1/2-hr slot 1-9PM)
Conduct your presentation and observe another student's presentation.
Assignment:
   (a)  **Final Lesson Plan due Friday, Oct. 30**
   (b)  Practice your family science night presentation at home.

Week #10 – Tuesday, Nov. 3 ~ 4:30 – 9 PM  (Depart 4:00 PM; return 11 pm)
(5) Family Science Night - Location TBA
Assignment:  One-page self-critique.  **Due:**  5 pm, Friday, Nov. 6

Week #12 – Tuesday, Nov. 10 ~ 5 – 9 PM  (Depart 4:45 PM; return 8:30 pm)
(6) Family Science Night - Location TBA
Assignment:  One-page self-critique.  **Due:**  Friday, Nov. 13

Week #13 - Tuesday, Nov. 17 ~ **Family Science Night**  (Depart 4:45 PM; return 8:30 pm)
(7) Family Science Night - Location TBA
Assignment:  Prepare 1-page self-critique of your presentation.  **Due:**  5 PM, Friday, Nov.20

Tuesday, Nov. 24 ~ **NO CLASS** ~ Thanksgiving Break

Week #14 - Tuesday, Dec. 1 ~ **Family Science Night**  (Depart 4:45 PM; return 8:30 pm)
(8) Family Science Night - Location TBA
Assignment:
   (a) Prepare 1-page self-critique of your presentation.  **Due:**  5 PM, Friday, Dec. 4
   (b) Write final reflection paper and email to jchadde@mtu.edu  **Due:**  Last class

Week #15 - Tuesday, Dec. 8 ~ **Family Science Night**  (Depart 4:15 PM)
(8) Family Science Night - Location TBA
Assignment:
   (c) Prepare 1-page self-critique of your presentation.  **Due:**  5 PM, Friday, Dec. 11
   (d) Write final reflection paper and email to jchadde@mtu.edu  **Due:**  Last class

**Finals Week - LAST CLASS**  TBA
**Topic:**  Wrap-up and sharing.  Final reflection paper due.  Complete course evaluations.