

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.