EDUC 341

Field Assignment(s) Description:

EDUC341 students will plan and conduct (1) science knowledge preassessments (written and interview), and (2) two science lessons: a STEM lesson (a lab experiment / hands-on activity that involves children working with materials and engineering/design principles) and an integrated lesson (read an informational science book with children and structure a learning discussion about the science content). Students will also administer shorter assessments prior to and after each lesson.

Students will conduct the STEM lesson during Week 1, a preassessment assignment during Week 2, and the integrated lesson during Week 3 of the field experience.

The Week 1 STEM lesson, a drop-in lesson, will be about scientific and engineering practices (NGSS, 2012). The Week 2 preassessment assignment and Week 3 integrated lesson must be on the same topic. Any science topic is acceptable, but it should be chosen in consultation with the clinical educator and 341 instructor.

**STEM LESSON – In Pairs – Week 1**

The STEM lesson will be a 30-60 minute drop-in lesson on scientific and engineering practices. Teaching partners will teach the lesson together. The goal for this assignment is for EDUC341 students to gain experience with an activity-based lesson that features engineering design, testing, data collection, and analysis in small group and whole class formats.

**PREASSESSMENT ASSIGNMENT – In Pairs – Week 2**

EDUC341 partners will administer a written preassessment to all children in their placement, and then interview two children each (4 total from the class) about their responses to the written preassessment. See syllabus for specific details. The topic of the preassessment must be the same as the Week 3 integrated lesson, and chosen in consultation with the clinical educator and 341 instructor. Topics for these assignments should be agreed upon with the clinical educator in Week 1 of the field experience in order to prepare assessments and lessons for Weeks 2 and 3.

**INTEGRATED LESSON – Individual – Week 3**

For the integrated lesson, students will conduct a whole-class reading-based lesson with discussion about science using a nonfiction/informational science book (that is not a textbook). The goal for this assignment is for EDUC341 students to gain practice eliciting children’s prior knowledge about a science topic through whole-class questioning, leading children to gather evidence about science / extend thinking through a read-aloud, and directing discussion to a scientifically valid conclusion. They will also administer a post assessment to the students. EDUC341 students will conduct these lessons individually, though they may coordinate their lessons. Each EDUC341 student must choose a different book, a different part of a book, or different set of books related to the topic chosen in
consultation with the clinical educator. They may conduct their lessons separately, sequentially, or concurrently (by dividing the class in half). Some sections will include an activity along with the read aloud. Details on acceptable formats will be discussed in class.