SIMON FRASER UNIVERSITY SUMMER SESSION 2006

EDUC 416-4 DESIGNS FOR LEARNING: SECONDARY SCIENCE (D02.00)

EDUC 476-4 DESIGNS FOR LEARNING: ELEMENTARY SCIENCE (D02.00)

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TUESDAY & THURSDAY 8:30-12:20 EDB 7500F

PREREQUISITE: EDUC 401/402

COURSE DESCRIPTION

Teaching and learning through inquiry sets the tone for EDUC: 416/476 – 4 Designs for Learning: Science (Elementary & Secondary). Across its many forms, Inquiry-based teaching emphasizes immersing learners in an experientially rich curriculum. The teacher provides a carefully chosen hook to peak the student's interest and calls on them to build on each other's invested interest to make sense of the experience. This science methods course will model a similar approach with how we individually come to understand our role as teachers in our own science classrooms. Guided by the British Columbia Ministry IRPs, we come together in a community of practice to explore learning and teaching through key concepts of activity theory, dialogue, as well as other contemporary reform initiatives with teaching science. Of particular interest will be issues of how we, as humans, genuinely come to make sense of our world and how such a practice may closely mimic what scientists do. For this course, this will mean doing hands-on activities, weekly readings (mostly from the web), low stakes writing to learn responses, class discussion and in-class presentations. A final unit plan will constitute a large portion of the grade.

Although to a great extent this course will move in the direction you find most useful for your level and needs (i.e. activities, readings and assignments will be open to negotiation), attendance will be mandatory. You must be prepared to actively take part in every class as well as agree to have all assignments completed on time.

(Crosslisted with EDUC 476 D02.00)

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