Course Structure & Description:
This course is specifically designed to develop those cognitive processes and concepts needed by teachers in the teaching of modern science programs. A great deal of class time is devoted to “hands-on/minds-on” activities that deal with scientific concepts, and how to teach them. Specifically you will learn more on the following aspects: why teaching science matters; basic science concepts for elementary; various science teaching strategies/approaches for modern science programs (with an emphasis on inquiry, modeling and computer simulations). You will also have an opportunity to develop, design, and teach lessons using various strategies. Prerequisite: grade of C or better in CI 422, CI 423, CI 426, SCI 210A, and SCI 210B, or equivalent.

Course Alignment with Standards:
This course has been aligned with the Next Generation Science Standards, Illinois professional teaching standards, National Science Education Standards, National Educational Technology Standards for Teachers (NETS) and Illinois Science Learning Goals.

Evaluation Procedures:
Evaluation is based on In-Class activities, Individual Lesson Plans, Group Lesson Presentations, Peer Lessons Tests, Final Exam

A  90-100
B  80-89
C  70-79
D  60-69
F  Below 60

General Expectations:
I have an expectation that you will treat the course in a serious manner reflecting your intentions to become a teaching professional. You should show respect for self, peers, staff, instructors, faculty, and materials at all times. Disruptions to learning cannot be tolerated. Examples of disruptions include, but are not limited to, use of electronics, eating, working on non class related work, reading newspapers, non participation, talking off topic, and being excessively loud.

Attendance:
Attendance will be taken in each class session. You will need to be present and to participate in activities and discussions in order to get the most out of the course. Every activity done in class will be graded and will count towards your final grade. Schedule/reschedule all appointments (Dr., hair, etc…) outside of class time. If you must be absent for any reason, document the absence on a full size sheet of paper when you return to class. Include your name, date(s) general reason for absence and attach relevant evidence to this paper. Excused absences include, but are not limited to, religious holidays, illnesses, or death in the immediate family. Please be on time for each class. If you are late, make sure to speak with me after class. You will lose points for each unexcused absence (5) and tardy (1). Excessive absence, excused or unexcused, or lack of participation, may result in my asking you to drop the course.

Participation:
Your participation in activities and discussions is essential. You must demonstrate your commitment, interest, leadership, and enthusiasm in the teaching profession. Please share your thoughts and ideas during discussions and
cooperate with your classmates during activities. In these ways, each person benefits from the knowledge and skills of the entire class.

**A Note on Academic Integrity:**
Careful attention must be made to produce your own original work and to give credit to the ideas of others. Please be aware that plagiarism includes taking credit for ANYTHING created, developed, and/or discovered by another person, including (but not limited to) words, sentences, or ideas. The SIUC Student Conduct Code includes the following possible penalties for plagiarism: failing grade for the work in question; failing grade for the course; revocation of a degree; and other disciplinary actions, including reprimand, censure, probation, or suspension. –See the Morris Library Guide on Plagiarism http://libguides.lib.siu.edu/plagiarism

**Special Needs Learners:**
Students with special needs are encouraged to discuss these with the instructor. Every effort will be made to make the accommodation(s) necessary to ensure a positive learning experience. Students may also want to contact Disability Support Services, Woody Hall B-150 (453-5738 voice/453-2293 TTY/453-5700 fax) to find out what help they offer.

**Emergency Procedures:** SIUC is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT’s website at www.bert.siu.edu and the Department of Safety’s website www.dps.siu.edu (disaster drop-down), and in the Emergency Response Guidelines pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team (BERT) will assist your instructor in evacuating the building or sheltering within the facility.

**Statement on Inclusive Excellence:**
SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ from you is an important part of your education in this class, as well an essential preparation for any career.

**SIU Policy on “Incomplete” as a Course Grade:**
The following text is taken from the 2011-2012 Undergraduate Catalog, p. 32: An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within a time period designated by the instructor but not to exceed one year from the close of the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, not to exceed one year, or graduation, whichever comes first, the incomplete will be converted to a grade of F and the grade will be computed in the student's grade point average. Students should not reregister for courses in which an INC has been assigned with the intent of changing the INC grade. Re-registration will not prevent the INC from being changed to an F.

**Resources for additional academic help:**
Writing Center, Learning Support Services, tutoring, Disability Support Services
If you have any type of need for which you require accommodations to promote your learning in this class, please contact me as soon as possible.

**Saluki Cares:**
The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. To make a referral to Saluki Cares click, call, or send: http://salukicares.siu.edu/index.html; (618) 453-5714, or siucares@siu.edu.

**Official SIU Student Email Policy:** http://policies.siu.edu/policies/email.htm

**SIU Student Conduct Code:** http://policies.siu.edu/documents/StudentConductCodeFINALMay32011.pdf