Miami Dade College

Course Competencies Template - Form 112

GENERAL INFORMATION	
Name: Dr. Susan Neimand	Phone #: (305) 237-6152
Course Prefix/Number: SCE 4945	Course Title: Internship/Student Teaching in Science Education
Number of Credits: 9	

Degree Type	☐ B.A. ☒ B.S. ☐ B.A.S ☐ A.A. ☐ A.S. ☐ A.A.S. ☐ C.C.C. ☐ A.T.C. ☐ V.C.C
Date Submitted/Revised: 3/10/08	Effective Year/Term: 2008-1

☐ New Course Competency   ☒ Revised Course Competency

Course to be designated as a General Education course (part of the 36 hours of A.A. Gen. Ed. coursework):   ☐ Yes   ☒ No

The above course links to the following Learning Outcomes:

☒ Communication
☒ Numbers / Data
☒ Critical thinking
☒ Information Literacy
☒ Cultural / Global Perspective

☒ Social Responsibility
☒ Ethical Issues
☒ Computer / Technology Usage
☐ Aesthetic / Creative Activities
☐ Environmental Responsibility

Course Description (limit to 50 words or less, **must correspond with course description on Form 102**):

This course provides a full time, supervised teaching experience. Students will learn and experience all of the educational and professional responsibilities common to science teachers.

Prerequisite(s): All coursework and state exams completed and passed	Corequisite(s): SCE 4943

Course Competencies: (for further instruction/guidelines go to: http://www.mdc.edu/asa/curriculum.asp)

Competency 1: The student will be able to create and implement lessons and units that demonstrate skills of planning and knowledge of science by:

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1. Creating lesson plans that are detailed, complete, and address appropriate learning goals, including those that address local, state, and national science standards and legislative mandates. (FEAP 8,10, NCTM 8.4, 16.2)
2. Appropriately sequencing content that is taught. (FEAP 7,8, NCTM 8.4)
3. Planning activities that are directly correlated to state and district curriculum standards and objectives. (FEAP 8, NCTM 8.4)
4. Demonstrating the ability to increase student's knowledge of science concepts. (FEAP8, NCTM 16.3)
5. Selecting and using appropriate concrete materials for learning science. (FEAP 9, NCT M8.2)
6. Planning instruction to accommodate all student needs. (FEAP 5, 7,8,10, NCTM 7.1, 8.1, ESOL 4.1)
7. Presenting science content material that is accurate and appropriate for grade level. (FEAP 8)
8. Providing definitions, attributes, examples, and non-examples for all concepts taught. (FEAP 4,7, NCTM 8.2)
9. Utilizing multiple strategies, including listening to and understanding the ways students think about science, to assess students' science knowledge. (FEAP 3, 8, NCTM 8.3)
10. Utilizing knowledge of different types of instructional strategies and stimulating curricula in planning science lessons. (NCTM 7.2 8.7)
11. Demonstrating and utilizing knowledge of research results in the teaching and learning of science. (NCTM 7.4, 8.6)

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12. Recording examples of on-going planning and successes related to instruction, of strategies to engage students who are off-task, of modifications during instruction, and of cooperative work with colleagues in planning instruction. (FEAP 2,3,9, NCTM 8.4))

13. Creating a showcase portfolio that includes lesson plans, task assignments and the resulting science 6-12 student work samples. (FEAP 10)

Competency 2: The student will model a variety of teaching techniques and strategies that reflect knowledge of human development and learning, the ability to respond to students' diverse learning needs, and skills to promote critical thinking and positive learning environments that result in student learning by:

1. Planning instruction to accommodate diverse needs of students. (FEAP 5, NCTM 7.1, 8.1)
2. Selecting, using, and determining suitability of the wide variety of available science curricula and teaching materials for all students including those with special needs such as the gifted, challenged and speakers of other languages. (FEAP 5, NCTM 7.1, 8.1)
3. Modifying assessment to meet the needs of students. (FEAP 1, NCTM 7.5)
4. Activating prior knowledge of students and conducting reviews of instruction when necessary. (FEAP 7)
5. Employing questions that address all levels of Bloom's taxonomy. (FEAP 4,7)
6. Providing opportunities for students to learn higher order thinking skills. (FEAP 4, NCTM 7.2)
7. Creating a showcase portfolio of K-12 student work that demonstrates 6-12 students' critical, creative, or higher-order thinking skills. (FEAP 4, NCTM 7.2)
8. Compiling and analyzing descriptive group data about specific students in his/her class(es), and after consultation with an ESE or ESOL specialist or cooperating teacher, documenting proposed adaptations, accommodations, and modifications. (FEAP 1, NCTM 7.5)
9. Conducting a lesson that demonstrates effectiveness in regards to diversity (sensitivity, equitable treatment, and planning for students with different backgrounds, cultures, and skill levels. (FEAP 5, NCTM 7.1)
10. Designing, conducting a cooperative learning activity and evaluating student behavior, cognitive skills, and social skills. (FEAP 2, NCTM 7.1)

Competency 3: The student will assess and report students' learning using both formative and summative processes and then use that information to further plan and refine instruction by:

1. Directly correlating assessment with curriculum objectives based on student needs. (FEAP 1, NCTM 8.4)
2. Modifying instruction based upon assessed student performance. (FEAP 1, NCTM 8.1)
3. Creating, administering, and analyzing the results of an exam in terms of student learning. (FEAP 1)
4. Developing a classroom assessment system that includes pre-assessment activities, outcomes, and analysis of student learning. (FEAP 1, NCTM 7.5)

Competency 4: The student will utilize a variety of technologies to access information for the classroom, enhance instructional presentation and assess student learning by:

1. Effectively incorporating technology in lesson planning and using technology as an integral part of lessons. (FEAP 12, CC7K4)
2. Using technology in instructional management and assessment where appropriate. (FEAP 12)
3. Creating and teaching lessons that are computer/technology enhanced. (FEAP 12)

Competency 5: The student will uphold the Florida Professional Code of Ethics for teachers by:

1. Following the Florida Professional Code of Ethics for teachers as evaluated by the cooperating and supervising teachers. (FEAP 6)

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2. Maintaining honesty in all professional practices; and not using institutional privileges for professional or personal advantage. (FEAP 6)

Competency 6: The student will use effective verbal and nonverbal communication skills with students, families, and others and behavioral intervention strategies in the education system by:

1. Providing students with specific feedback during lessons. (FEAP 2, 11, NCTM 7.3, 8.3, 8.8)
2. Demonstrates the ability to lead classes in scientific discourse and in developing in-depth conceptual understanding, and to help students develop and test generalizations. (NCTM 8.8)
3. Employing effective and consistent academic praise throughout lessons. (FEAP 11)
4. Implementing a classroom management plan that promotes student learning. (FEAP 11)
5. Treating all students equitably and with respect. (FEAP 5, 6, NCTM 7.1)
6. Implementing effective behavior strategies when needed with individuals in the classroom environment. (FEAP 11)
7. Implementing a classroom management plan that promotes learning for a diverse student population. (FEAP 9, ESOL 14.1,14.2)
8. Implementing a classroom management system that includes organization of space, time and materials, as well as rules and procedures that redirect student misbehavior according to expected standards of responsible student behavior. (FEAP 9, 11)
9. Utilizing correct oral and written English. (FEAP 2)
10. Effectively utilizing nonverbal language to encourage students in a positive and supportive manner. (FEAP 2)
11. Documenting ability to communicate effectively with students, colleagues, and administrators. (FEAP 2, 11)
12. Implementing a lesson and analyzing self and peer/mentor assessments of communication and behavioral management skills. (FEAP 2,3,11,12)

Competency 7: The student will work with various education professionals, parents and members of the community to improve educational experiences at the school site by:

1. Keeping records of family and colleague contact targeted at improving student performance. (FEAP 2)
2. Recording contacts with parents, colleagues and community personnel to improve student learning. (FEAP 2, 11, ESOL 4.5)
3. Reporting improvement of student learning to all involved parties. (FEAP 1, 2, 11)
4. Co-planning utilizing methods to strengthen 6-12 students' acquisition of science content. (FEAP 8, 11)

Competency 8: The student will demonstrate professional behaviors related to attendance, recordkeeping, responsibility, emotional balance, and positive role modeling by:

1. Displaying enthusiasm, a positive attitude, and being genuinely interested in student progress. (FEAP 2,9, 11)
2. Exhibiting effective time management. (FEAP 9, 11)
3. Creating and maintaining student records. (FEAP 11)
4. Exhibiting effective time management. (FEAP 11)
5. Efficiently organizing and distributing materials to students. (FEAP 11)
6. Circulating the classroom to assist students. (FEAP 11)
7. Modeling and giving clear and specific directions for tasks. (FEAP 2)
8. Effectively managing the learning environment. (FEAP 9, NCTM 7.3)

Competency 9: The student will engage in continuous self-reflection, responding to critical feedback, and refining individual performance on the basis of feedback and reflection by:

1. Reflecting on all task assignments and experiences that are part of the internship to demonstrate the Florida Educator Accomplished Practices. (FEAP 3)

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2. Participating in post-observation conferences with cooperating and supervising teachers. (FEAP 2,3)
3. Creating and revising a Personal Development Plan with the assistance of cooperating and supervising teachers during post-observation conferences. (FEAP 3)
4. Engaging in professional activities that benefit individuals with exceptional learning needs, their families, and one's colleagues. (FEAP 3, NTCM 8.5)
5. Participates in professional science organizations and uses their print and on-line resources. (FEAP 3, NCTM 8.5)