

**College of Charleston**  
**SMFT 697, Imovies and science teaching**  
**Mayevening, 2003**  
**1 Credit Hours** (total of 15 contact hours)  
**Meeting Time and Place:**  
**JC Long Building Room 336**  
**10:00 – 3:00**

<b>Instructors' Names:</b>	<b>Olaiya Aina, Meta Van Sickle, Carol Tempel &amp; George Tempel</b>
<b>Office Hours:</b>	<b>T &amp; W 1:00-3:30pm</b>
<b>Office Location:</b>	<b>106 9 College Way 416 Basic Science Building</b>
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<b>Course Prerequisites:</b>	<b>SMFT 697 Constructivist Science Teaching or EDEE 670</b>
<b>Course Description:</b>	<b>SMFT 697 is designed for NSF graduate fellows and their cooperating teacher. Graduate fellows will create imovies of their most significant K-12 classroom experiences.</b>
<b>Course Text/Materials:</b>	<b>CD disks, fire-wire hard drives.</b>

## **Course Objectives:**

1. Gain the ability to analyze an inquiry-based science lesson:
  - A. select science content and adapt and design imovies to illustrate the most significant learning about teaching in public schools.
2. Examples of substance that the imovie could focus on:
  - A. focus and support inquiries while interacting with students
  - B. orchestrate discourse among students about scientific ideas
  - C. challenge students to accept and share responsibility for their own learning
  - D. recognize and respond to student diversity and encourage all students to participate fully in science learning
  - E. encourage and model the skills of scientific inquiry, as well as the curiosity, openness to new ideas and data, and skepticism that characterize science.
  - F. Engage in the ongoing assessment of your own teaching and of the students' learning:
  - G. use multiple methods and systematically gather data about student understanding and ability
  - H. analyze assessment data to guide teaching
  - I. guide students in self-assessment
  - J. use student data, observations of teaching, and interactions with colleagues to reflect on and improve your teaching practice
  - K. use student data, observations of teaching, and interactions with colleagues to report student achievement and opportunities to teach students, teachers, parents, policy makers, and the general public
  - L. know the naïve theories and misconceptions most children have about scientific and technological phenomena and help children build understanding.

## **Course Requirements: Description of Projects/Assignments:**

List all course requirements and give a description of each, and specific descriptions of all assignments.

### Lesson Plans

You will be analyzing the 4 lesson plans used during spring semester. (School of Education (SOE) Std I, II, III, IV, VI, VII)

### Analysis of a Lesson

You will analyze your video tapes and select the most significant thing you learned about teaching. This claim of significance is to be backed with evidence. (SOE Std1, II, III, IV)

### Imovie production

You will create an imovie based on your lesson plans and the analysis of the plans and your actual video tape.

### Class Attendance and Participation

Each student is to attend class regularly and on time. It is imperative that you participate in large and small group discussion and activities. Because the method(s) of teaching that you will be learning are significantly different from methods that you have learned in other courses your **participation is mandatory**. I record your attendance and participation after each session. **You can lose up to two letter grades by failing to attend and participate.** (SOE Std I, II, III, IV,V, VI)

## **Evaluation Scale:**

A= 93-100

B+ = 88-92

B = 83-87

C+ = 78-82

C = 74-77

F = 70

## **Evaluation Criteria:**

(Include all activities that have a direct impact on the final grade)

### Lesson Plans

Written Lesson Plan Analysis                      5%

VCR Analysis    25%

Imovie Creation    50%

Class Attendance and Participation                      20%

**You can lose up to two letter grades by failing to attend and participate.** You cannot learn to do this form of evaluation on your own and the feedback from every member of the group is required to improve your teaching to the greatest extent.

## **Resource Reading List:**

### Benchmarks

NSES  
Atlas  
Foundations

## **Attendance Policies:**

Absences are not encouraged. If you must miss make sure to gain the instructors approval. You must view the videotape of the week with your teacher partner and present your results when you return. Emergencies must be reported as soon as possible. We follow the College of Charleston policy manual.

## **Any special consideration/agreements:**

You are encouraged to consult with the course instructors to complete your imovie.

## **Honor System:**

We will follow the College of Charleston policy manual.

## **Performance Data:**

**All course requirements are performance based.**

**Course Calendar:** (list the date and specific topic and assignments for each course meeting)

<b>Date</b>	<b>Topic</b>	<b>Assignment</b>
Week 1	Analysis of lesson plans	Bring your lesson plans to class
Week 2	Analysis of VCR tapes	Bring your evaluations of the VCR tapes to class
Week 3	Write your claims and list the evidence to support your claims	Use evidence from weeks 1 and 2
Week 4	Construction and practices of creating imovies	Storyboarding, Collecting video clips and stills, Ordering of footage, Compiling into an imovie
Week 5	Final touches and putting the imovies onto the NSF web page	

