

1. Submitting College:

SOTE

2. Department(s) Generating The Proposal:

# Savannah State University New Programs and Curriculum Committee Summary Page – Form I

Choose an item. (if needed)

Choose an item.

3.	Proposal Title:	Teaching in Bio	ology			
4.	Course Number(s):	BIED 4416				
5.	Course Title(s):	Teaching in Bio	ology			
6.	Effective Date:	Spring <b>Year:</b>	2014			
	secondary school includes a second	teaching strate biology in the ary school field ggested by rese	gies, instructional materials, multicultural and diverse cla dexperience in biology teach earch in biology education a	ion and application of curricular issues, and assessment procedures for teaching assroom of today. The course also hing and seminars. The course emphasized encouraged by the NSTA. There will		
8.	Type of Proposal:	New Course	If other, please describe:	Click here to enter text.		
9.	Additional: Click he Deletions: Click he Impact on Existing Programore specifically the biby this course are 505-3	ere to enter text ere to enter text ere to enter text grams: None. Tology methods r 301 REQUIREM	This course is designed to mee equirements of teacher educa ENTS AND STANDARDS FOR A	et GaPSC Rules for Teacher Preparation and ation candidates. The specific rules satisfied PPROVING PROFESSIONAL EDUCATION RTIFICATION BY STATE-APPROVED	itisfied	
11.	Additional Resources R Personnel: Non-personnel:	<b>Required</b> Full time Click here to er	nter text.			
12. -	Approvals: Department Curriculum	n Committee	Signature	Date		
-	Department Chair		Signature	Date		
-	College Curriculum Con	nmittee	Signature Signature	Date 9-23-201	3	
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-	Vice President of Academic Affairs	Signature	Date
	(Chair of the New Programs and Curriculum Commit	tee)	
_	Faculty Senate	Signature	Date



## Savannah State University New Programs and Curriculum Committee Course Addition Page – Form II

1. **Course Number**: BIED 4416

2. **Course Title**: Teaching in Biology

3. **Catalogue Description**: This course is an examination and application of curricular issues, learning theories, teaching strategies, instructional materials, and assessment procedures for teaching secondary school biology in the multicultural and diverse classroom of today. The course also includes a secondary school field experience in biology teaching and seminars. The course emphasizes those practices suggested by research in biology education and encouraged by the NSTA. **There will be a 60 hour field component to this course.** 

4. **Rationale:** This course builds on and extends the knowledge of theories and curricular issues learned in prerequisite courses in the School of Teacher Education. It is designed to aid students in emerging a comprehensive understanding of the pedagogical knowledge needed in selecting, developing, implementing, evaluating and refining reform-based science instruction for middle and secondary students.

5. **Credit Hours**: 3 credit hours

6. **Pre-requisites**: Admittance to School of Teacher Education, EDUC 3030 and 3200

7. **Syllabus**: See attached

8. Similarity to or duplication of Existing Courses: N/A

9. **Textbook selection**: **Hassard, J., & Dias, M. (2008).** The Art of Teaching Science: Inquiry and Innovation in Middle School and High School: New York: Routledge.

10. **Grading**: Grading Scale: a (90-100); B (80-89); C (70-79); D (60-69); F (below 60)

## BIED 4416: Teaching in Biology 2014 Fall Syllabus Savannah State University School of Teacher Education

#### **Instructor Information**

Name:

Rank:

Campus Address: Office Number:

Email:

Office Hours:

#### Instructor's Education:

(See instructor's biography under the faculty menu of Desire2 Learn (D2L) ELearning Course Management System)

Catalog Course Description: This course is an examination and application of curricular issues, learning theories, teaching strategies, instructional materials, and assessment procedures for teaching secondary school biology in the multicultural and diverse classroom of today. The course also includes a secondary school field experience in biology teaching and seminars. The course emphasizes those practices suggested by research in biology education and encouraged by the NSTA. Proof of professional liability insurance and a clear background check is required. There will be a 60 hour field component to this course. You cannot pass this course without it. Verification of professional liability insurance and a clear criminal background check is required prior to placement in the field experience. You will be unable to select a school for placement until this step is completed.

#### **Course Overview**

This course builds on and extends the knowledge of theories and curricular issues learned in prerequisite courses in the School of Teacher Education. It is designed to aid students in emerging a comprehensive understanding of the pedagogical knowledge needed in selecting, developing, implementing, evaluating and refining reform-based science instruction for middle and secondary students.

**Pre-requisites:** Admittance to School of Teacher Education, EDUC 3030 and 3200

#### **OBJECTIVES AND OUTCOMES:**

As a result of completing this course, the teacher education candidate will be able to:

- 1. Demonstrate knowledge of how learners develop and reason.
- 2. Understand and characterize science content accurately.
- 3. Create learning environments that are active, effective and properly managed.
- 4. Demonstrate comprehensive, in-depth and contemporary knowledge of science content.
- 5. Create and implement instruction that exemplifies various cultures and provides all

- students fair access to a high quality education in a diverse curriculum.
- 6. Connect content learned from the science curriculum to other disciplines and apply it to global life experiences.
- 7. Reflect and identify ways to improve the teacher candidates' professional performance.
- 8. Display behavior that embodies professional and ethical standards in education.
- 9. Demonstrates effective oral and writing communication.
- 10. Design effective instruction integrating the use of technology.

REQUIRED TEXT: Hassard, J., & Dias, M. (2008). The Art of Teaching Science: Inquiry and Innovation in Middle School and High School: New York: Routledge.

**METHODS OF INSTRUCTION:** The basic class format will be discussion derived from the backgrounds, special interest, outside reading, and preparation for class. The quality of the class experience will depend largely on thoroughness of preparation, freedom of expression, and participation of individual class members. In addition, classroom teaching specific assignments, online Desire2Learn (D2L) discussions, web seminars, and field trips maybe scheduled to learn about the variety of teaching strategies in science education. D2L will be used as a web-assisted tool to further enhance the teaching and learning environment.

Post completed assignments, reflections, and other artifacts related to this course in your e-portfolio in TaskStream. Remember, completed assignments will be assessed through your e-portfolio in TaskStream. The e-portfolio is required for all education courses.

## **GENERAL COURSE REQUIREMENTS:**

Each Student in the course is expected to meet the following requirements:

## **Classroom Management and Safety Plan**

Based on safety instruction and initial observations for lab use in addition to meetings with your collaborating teacher, you will design a lab safety lesson, student contract, and initial classroom management plan. This will be completed in the early weeks of this semester, and revised during the student teaching semester.

#### **Curriculum Resources Evaluation**

You will be assigned to a collaborative team. As a member of the group you will locate and evaluate instructional resources for an assigned portion of the (grade 8) Science curriculum. Findings for each group will be summarized and presented to the class.

## **Lesson Planning**

Creating lessons plans is an essential component in the teaching field. Each student will learn the instructional design process by first concentrating on the development and critique of an individual lesson. Thus, you will be directed through the development process for four lesson plans, some of which you will teach in the middle school prior to development of a lesson sequence or "unit" of instruction. All written lesson plans

include measurable objectives, safety guidelines, summarized teacher and student activity, anticipated timing, required materials, and means of assessment summarized. Your initial practice with lesson planning will help you relate the Georgia Professional Standards curriculum to NSTA standards relating to issues, nature of science, science in the community, and scientific inquiry.

#### Written Reflections

Written assignments are intended to promote reflective analysis in support of learning to teach. These will be periodically assigned throughout the semester. Four of the reflections will be assessed in relation to specific learning outcomes and assignment criteria.

### **Comprehensive Content Examination**

A summative assessment of your content knowledge for teaching high school biology will be administered through a traditional exam (multiple choice, true and false, short answer, and essay.) The design of this exam will be based on the Georgia Professional Standards for high school biology.

#### Reflective Narrative

Organize evidence and post your narrative comments regarding your proficiencies for Subject Matter Expertise, Facilitator of Learning, and Collaborative Professional. This will include selected work that you've completed in this course (specified above) as well as work completed earlier in the program. Though final revisions of the reflective narrative will be completed toward the end of student teaching, your final task for this course is to write a self-assessment of your competency for your proficiencies, and set some professional growth goals for student teaching.

## Field Experience

The 60 hour field experience is a required component of BIED 4416. It is intended to be one of two practice opportunities prior to student teaching. Teacher candidates will be expected to teach a variety of lessons during this time. In order to be successful in the field experience, the teacher candidate must demonstrate indicators of effective application of instructional strategies and classroom management. The field experience will be assessed using appropriate instruments completed by the teacher candidate, collaborating teacher, and University Supervisor/Field and Clinical Experience Coordinator. A rubric for observations for your field experience will be utilized by your supervising professor and collaborating teacher. You must complete the field experience component of this course in order to receive a passing grade. A teacher candidate may be removed from his/her field experience placement at any time under the recommendation of the collaborating teacher, principal, or university supervisor/Field and Clinical Experience Coordinator. SSU teacher candidates are expected to abide by the student code of conduct and Georgia Code of Ethics while representing the institution off

**CLASSROOM NORMS:** During the first week of class, class members will establish norms (ground rules), a list of behaviors that the group agrees upon so that everyone can be comfortable in an educational setting that fosters learning. This is a model for setting ground rules in the teacher candidates' own classrooms someday, and is therefore doubly important to follow.

**PROFESSIONALISM:** It is expected that teacher candidates will conduct themselves with the professionalism that is required of practicing teachers. Such professionalism includes effective and respectful collaboration and communication with colleagues, prompt attendance of all meetings and classes, moral behavior and actions, appropriate communication and sharing of materials and plans with the collaboration teacher and university supervisor/field and clinical experience coordinator, appropriate professional dress (even on "causal days"), etc. If, at any time, a student's actions or attitudes are judged to lack professionalism by a collaborating teacher or principal, the necessary actions will be administered.

#### **CLASS PARTICIPATION**

Three vital parts of the teaching profession are: 1) Regular and prompt attendance 2) being prepared and 3) being a team player. As such, attendance along with active class participation is important to your overall your grade.

Being a team player is very important as a teacher; therefore you will be placed in groups at various points throughout the semester and will be expected to participate and be prepared to contribute.

## **Schedule of Activities**

Week One	Orientation/Expectations/ l	Library Resources and TaskStream
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(overview)

Week Two Chapter One The Art of Teaching Science: A Reconnaissance

Week Three Chapter Two Science for All

Week Four Chapter Three Facilitating Learning in the Science Classroom

Classroom Management Safety Plan due

Week Five Chapter Four On the History of Science Education Lesson Plan

Week Six Chapter Five: Science in the School Curriculum Curriculum

Resources Evaluation Due

Week Seven Chapter Six: Science, Technology, and Society (STC) in the

Science Classroom Lesson Plan

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Week Eight Chapter Seven: How Adolescents Learn Science

Week Nine Chapter Eight: Models of Science Teaching

Lesson Plan

Week Ten Chapter Nine: Designs for Learning

Week Eleven Chapter Ten: Assessing Active Science Learning Lesson Plan

Week Twelve Chapter Eleven: Strategies Fostering Thinking in the Science

Classroom Group Presentation (2)

Week Thirteen Chapter Twelve: The Internet: Learning Science with Online

Resources Reflective Narrative

Week Fourteen Field Experience Wrap-Up Comprehensive Content Examination

Week Fifteen Course Final Review

I reserve the right to change topics of discussion and "other" assignments in class without advanced notice. Students are expected to follow the University's code of conduct regarding all assignments (both in and out of class).

#### **GRADING:**

Grades will be computed as follows:

Classroom Management and Safety Plan: 10%

Curriculum Resources Evaluation: 5%

Lesson Planning: 40% Written Reflections: 20% Reflective Narrative: 10%

Comprehensive Content Examination: 15%

**TOTAL 100%** 

The grading scale below will be used to determine your final grade.

#### **AVERAGE GRADE**

90 -100 A

80 -89 B

70 -79 C

60 -69 D

BELOW 60 F

#### ABSENCE/WITHDRAWAL POLICY:

You are encouraged and expected to attend all classes. Roll will be taken at the beginning of each class. Missed classes count as absences beginning the first day you are enrolled in the class. YOU ARE RESPONSIBLE FOR ALL MATERIAL COVERED, EVEN IF YOU ARE ABSENT. You will receive a grade of zero (0) for class participation on the days you are absent. These points cannot be made up. Please do not contact the School of Teacher Education to report an absence prior to class or to leave a message for me there. Any messages for me should either be emailed to me or left on phone number listed on this syllabus. There are three excused/unexcused absences.

If a student does not attend at least one class during the first two weeks, they may be automatically dropped from the class. I am unable to withdraw you during the semester. If you need to do this before the midpoint of the semester, it is up to you to take care of this with the registrar's office.

#### TARDY ARRIVAL/EARLY DEPARTURE POLICY:

You are expected to arrive on time for each class and to remain until class is dismissed. Late arrivals (and early departures) disrupt the class and distract me. If you find it impossible to make it to class on time, you should drop the course as soon as possible.

#### SAVANNAH STATE UNIVERSITY POLICIES

#### a. ACADEMIC HONESTY POLICY:

Cheating is against school policy. Cheating includes any attempt to defraud, deceive, or mislead the instructor in arriving at an honest grade assessment, and may include copying answers from other students or using unauthorized notes during tests. Plagiarism is a particular form of cheating that involves presenting as one's own the ideas or work of another, and may include using other people's ideas without proper attribution and submitting another person's work as one's own.

Violations of the cheating policy will result in a grade of '0' for the assignment in question, and may result in a failing grade for the course at the instructor's discretion. See the Student Conduct Code in the Student Handbook for details and for a review of the appeals procedure. Additional information related to Academic Honesty as it applies to courses taken in the School of Teacher Education may be found on the website at <a href="http://www.savannahstate.edu/student-affairs/docs/SSU\_Student\_Handbook.pdf">http://www.savannahstate.edu/student-affairs/docs/SSU\_Student\_Handbook.pdf</a>

#### **b. AMERICANS WITH DISABILITIES ACT STATEMENT**

If you are a student who is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please seek assistance through the Center for Disability Services. A CDS Counselor will coordinate those services. It is the student's responsibility to notify the instructor and to obtain an accommodation letter so that accommodations can be made for the class.

#### c. STATEMENT OF NON-DISCRIMINATION

Savannah State University supports the Civil Rights Act of 1964, Executive Order #11246, Title IX of the Educational Amendments of 1972, Section 504 of the

Rehabilitation Act of 1973, and the Americans with Disabilities Act. No person shall, on the basis of age, race, religion, color, gender, national origin or disability, be excluded from participation in, or be denied the benefits of, or be subjected to discrimination under any program or activity of the college.

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Any individual with a grievance related to the enforcement of any of the above provisions should contact the Assistant Director of Human Resources, Ombudsperson.

#### d. AFFIRMATIVE ACTION STATEMENT

Savannah State University is an equal opportunity employer which assures that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability, be excluded from employment or participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity the institution conducts. Savannah State University complies with all state and federal affirmative action guidelines and criteria in its employment and hiring procedures and practices.

#### e. EQUAL OPPORTUNITY STATEMENT

Savannah State University is an equal employment opportunity institution. The institution's policy is that all recruiting, hiring, and promotion in all categories will be accomplished without regard to race, creed, color, national origin, sex, sexual orientation, handicap, or age. All personnel policies and employees benefits will be administered in a nondiscriminatory manner. As a part of this policy, an equal employment opportunity/affirmative action office is maintained on campus.

## SYLLABUS ACKNOWLEDGEMENT FORM

- I have received a copy of the BIED 4416 course syllabus in person.
- I have read and understand the content.

	(Please print)	
Signature		. Ja
Date		

(You must submit this form to the instructor after the first week of class.)