



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

1. Submitting College: SOTE ☒
2. Department(s) Generating The Proposal: Choose an item.
Choose an item.

3. Proposal Title: Laboratory Teaching Practicum

4. Course Number(s): BIED 3142

5. Course Title(s): Laboratory Teaching Practicum

6. Effective Date: Fall ☒ Year: 2016

7. Brief Summary of Proposal:

This course is designed for future teachers to gain skills and dispositions for coordinating and maintaining laboratory spaces and maintaining lab safety through proper laboratory procedures as well as classroom management. Students will also develop lab exercises, assess lab exercises, and create plans for adapting labs for differently abled individuals and financial considerations. This course will require 4 hours practicum in a laboratory class with faculty supervision and 1 hour class meeting weekly.

8. Type of Proposal: New Course ☒ If other, please describe:

9. Impact on Library Holdings

Existing: Current holding
Additional: New purchases as needed
Deletions:

10. Impact on Existing Programs:

This course is designed to meet GaPSC rules for teacher preparation and more specifically, biology education majors. The specific rules satisfied by this course are 505-3.01 REQUIREMENTS AND STANDARDS FOR APPLYING FOR APPROVED PROFESSIONAL EDUCATIONA UNITS AND EDUCATOR PREPARATION PROGRAMS and 505-2.16 CERTIFICATION BY STATE APPROVED PROGRAMS.

11. Additional Resources Required

Personnel: None
Non-personnel: None

12. Approvals:

- Department Curriculum Committee: Signature Kisha R. Cunningham Date: 4/17/16
- Department Chair: Signature _____ Date: _____
- College Curriculum Committee: Signature [Signature] Date: 4/17/16
- College Dean: Signature [Signature] Date: 04/18/16
- Provost/VP of Academic Affairs: Signature [Signature] Date: 5/2/16
(Chair of the New Programs and Curriculum Committee)
- Faculty Senate: Signature Kenneth A. Jordan Date: 5/3/16



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

1. **Course Number:** BIED 3142
2. **Course Title:** Laboratory Teaching Practicum
3. **Catalogue Description:** This course is designed for future teachers to gain skills and dispositions for coordinating and maintaining laboratory spaces and maintaining lab safety through proper laboratory procedures as well as classroom management. Students will also develop lab exercises, assess lab exercises, and create plans for adapting labs for differently abled individuals and financial considerations. The course will require 4 hours practicum in a laboratory class with faculty supervision and 1 hour class meeting weekly.
4. **Rationale:** To provide teacher candidates experience/exposure to the tasks and skills of laboratory teachers to develop the skills and dispositions of effective laboratory teachers.
5. **Credit Hours:** 2
6. **Pre-requisites:** Admission to the School of Teacher Education
7. **Syllabus:** attached
8. **Similarity to or duplication of Existing Courses:** None
9. **Textbook selection:** None
10. **Grading:** See syllabus

BIED 3142 Laboratory Teaching Practicum
School of Teacher Education
Savannah State University
Spring 2015

Course Number: BIED 3142
Section: 01
Course Credit Hours: 02
Class Meetings: TBD
Class Location: TBD

Instructor & Title: Andrea L. Moore, PhD
Office Location: Drew-Griffith 125
Telephone: 912-358-4441
e-Mail: moorean@savannahstate.edu
Office Hours: TBD

PREREQUISITES: Admission to the School of Teacher Education

COURSE DESCRIPTION: This course is designed for future teachers to gain skills and dispositions for coordinating and maintaining laboratory spaces and maintaining lab safety through proper laboratory procedures as well as classroom management. Students will also develop lab exercises, assess lab exercises, and create plans for adapting labs for differently abled individuals and financial considerations. The course will require 4 hours practicum in a laboratory class with faculty supervision and 1 hour class meeting weekly.

STUDENT LEARNING OUTCOMES:

By the end of the course, students will be able to

- observe a scientist conduct labs using proper laboratory procedures
- demonstrate proper safety procedures in a laboratory setting
- employ organizational, research, and teaching skills
- practice designing laboratory exercises
- integrate scientific theories into hands-on activities

COURSE OBJECTIVES:

Students will be able to

- obtain certification for Flinn Laboratory Safety Training (no charge to students)
- know the purpose and how to read a material safety sheet
- know the proper procedure for handling chemicals, cleaning up spills
- develop an inventory sheet and create a budget request for laboratory supplies
- create lesson plans for teaching labs through demonstration, teacher-directed, and inquiry-based, and problem solving based learning formats
- prepare labs for instruction and maintain the laboratory space

PEDAGOGICAL APPROACH: This is a blended course, which means that some instruction will be delivered face-to-face and some through electronic (online) format. Students will engage in traditional lectures and cooperative learning exercises such as discussions in class and/or web-based. Students will engage in hands-on and formative assessments in class each week. Mentors will be identified or assigned on or before the end of the first week of classes.

REQUIRED MATERIALS: Composition book, access to the electronic portfolio and classroom management system

TOPICS COVERED

Laboratory Safety Procedures
Environmental Health and Safety, Environmental Protection Agency, and the School
Hazardous Waste Management
The Nature of Science
The Inquiry Teaching Method for Lab
Creating and Implementing Labs
Lab Inventory and Supplies
High Tech Labs and Labs on a Budget
Writing Lesson Plans for Labs

COURSE POLICIES

Attendance

Attendance is mandatory. With the exception of University approved activities, it is expected that students should attend and be punctual to their classes, laboratories, and officially scheduled class requirements. Oversleeping, forgetting, scheduling other events (e.g. dentist appointments) are unexcused absences. For an absence to be excused, it must be brought to the instructor's attention and discussed/approved by the instructor prior to the day in which the student is to miss class, with the exception of emergencies. Whether you are present or not, you are responsible for all assigned material, and for all material presented in class. Please do not ask if it is okay for you to miss class or if what is covered in class on a given night is important; the decision to miss class is yours alone—you do not need nor will you receive my permission.

Academic Integrity

Students are expected to demonstrate a high standard of academic honesty in all phases of academic work and college life. Academic dishonesty represents an attack on intellectual integrity without which there can be no true education. In taking tests and examinations, completing homework, laboratory work, and writing papers, students are expected to perform honestly. Consequently, Savannah State has established policies for detected acts of academic dishonesty. See section on Academic Misconduct in the Student Handbook.

Make Up and Late Assignments

Students are expected to come to class prepared to discuss readings, and use computer technology and research for course assignments and final research paper. All class assignments must be completed during the time allotted. All online assignments must be submitted by the deadline on the due date.

American with Disabilities Act Statement/Special Services

Savannah State University is committed to providing reasonable accommodations to students with documented disabilities, as required under federal law. Disabilities may include learning disabilities, ADD, psychological disorders, brain injury, Autism spectrum disorders, serious chronic medical illnesses, mobility impairment, vision or hearing loss or temporary injuries. SSU also provides free, professional, confidential, individual and group counseling, homeless services and referrals. The Counseling and Disability Centers are located in King Frazier 233, 8a.m. - 5p.m. 912 358 3129. Another resource for mental health emergencies is the GA Crisis and Access Line, available 24 hours a day at 1-800-715-4225.

GRADE DETERMINATION:

Grades will be based on exams, writing assignments, notebooks, and in-class exercises. Regular attendance, hard work, evidence of time spent with the material, and ability to demonstrate understanding of concepts contributes to your success in this course. See Assignment and Reading Schedules.

Final Grades will be based on the following rankings, in terms of total points earned relative to the total possible points:

A	90-100%	B	80-90%	C	70-80%	D	60-70%	F	<60%
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COURSE OUTLINE (TENTATIVE)

The following outline and readings may change as the course progresses, as the instructor deems necessary given student interests and needs. Please read the assignments prior to the class meeting, be prepared to present a thoughtful question to enhance dialogue, and be prepared to offer salient points to class discussion.

Week	Topic	Assignment(s) Due
1	Laboratory Safety Training Assign Faculty Mentors	Complete Flinn Scientific Safety Training Online
2	Environmental Health and Safety, Environmental Protection Agency, and the School	Identify the Environmental Health and Safety Officer at various institutions
3	Hazardous Waste Management	Complete exercise on Material Safety Sheets
4	Lab Inventory and Supplies	Develop Lab Inventory Sheet
5	High Tech Labs and Labs on a Budget	Locate high tech and low tech devices for teaching labs
6	The Nature of Science	Analyze lab books for elements of nature of science
7	Creating and Implementing Labs: Demonstrations, Cookbook, Student-Designed	
8	Writing Lesson Plans for Labs: Demonstrations and the Cookbook	Lesson Plan
9	Writing Lesson Plans for Labs: Inquiry Labs	Lesson Plan
10	Writing Lesson Plans for Labs: Problem-based Lab	Lesson Plan
11	Modifying Labs for Diverse Learners	Lesson Plan
12	Modifying Labs for Exceptional Learners	Lesson Plan
13	Developing Rubrics for Grading Labs	Rubric
14	Reflections	Composition book and portfolio documents
15	Lab Wrap-Up	Complete Lab Inventory