

BACCALAUREATE AND MASTER'S DEGREES

NEW PROPOSAL FORM: ONE-STEP PROCESS

(Submit One Copy)

REVISED FORMAL PROPOSAL

Institution: Savannah State University

Institutional Contact (President or Vice President for Academic Affairs): Dr. Earl G. Yarbrough,
President

Date: March 26, 2010

School/Division: College of Sciences and Technology (COST)

Department: Department of Secondary Education

Departmental Contact:

Name of Proposed Program/Inscription: The Bachelor of Science in Biology Education

Degree: Bachelor of Science in Education

Major: Biology (Secondary Education Concentration)

CIP Code: 13.1322

Anticipated Starting Date: Fall 2012

Table of Contents

1. Program Description and Objectives	3
2. Description of the program’s fit.....	7
3. Description of how the program demonstrates demand	8
4. Brief description of institutional resources	8
5. Curriculum	10
Course of Study.....	10
Sample Program of Study	14
Courses Existing or New	15
7. Availability of assistantships	19
8. Student learning outcomes	19
9. Administration of the program.....	20
10. Waiver to Degree-Credit Hour.....	21
11. Accreditation.....	21
12. Projected enrollment	22
13. Faculty.....	22
14. Fiscal, Facilities, Enrollment Impact, and Estimated Budget	23
Appendix A: Course Descriptions	32
Appendix B: Accreditation Standards	42
Appendix C: Faculty Directly Involved With the New Degree Program	49
Appendix D: Endorsement Documents	51

1. Program Description and Objectives:

The proposed Bachelor of Science degree in Biology develops effectiveness in communication, leadership, and other skills necessary to ensure the student is proficient in teaching at the secondary level (6-12). The plan of study curriculum requires a solid background of education classes as well as essential content courses. A strong emphasis is placed on grade-relevant field experiences throughout the program. Teacher candidates are required to demonstrate the knowledge, skills, and dispositions needed to have a positive impact on student achievement.

The Bachelor in Science in Biology allows the student to pursue the Biology major with a concentration in secondary education teaching licensure. The Biology Education major is grounded in the theoretical knowledge base with sound educational classroom practices. Students in the Biology Education major will have practicum experiences in EDUC2110 - Investigation of Critical/contemporary Issues, EDUC2130 - Exploring Socio-Culture, EDUC2130 - Exploring Teaching and Learning, Methods of Teaching, and a 16 week Student Teaching/Internship. The methods courses and related courses are integral with a common core of teaching strategies and issues. All students pursuing the Bachelor of Science in Biology (with a Secondary Education concentration must complete 33 credit hours of coursework in education. The total degree requirements are 125 credit hours which includes the optional university requirements.

Biology education is a discipline with a national accrediting body. The proposed program is designed to satisfy all the accreditation requirements of Southern Association of Colleges and Schools (SACS), National Science Teachers Association (NCST), Georgia Professional Standards Commission (GaPSC), and National Council for Accreditation of Teacher Education (NCATE).

a. Objectives

The program's objectives are based on multiple inputs, including recommendations of an external consultation, education committee, and faculty. The goals and objectives of the program focus on enhancing quality, increasing scholarly activities, and outreach efforts. The goals and objectives were adopted by the faculty of the College of Sciences and Technology where the new department will be located. The new goals and objectives will serve as the basis for programmatic strategic and action planning. The objectives are aligned with GaPSC and NCATE standards.

General program objectives:

- knowledgeable of disciplines taught in school and familiarity with materials in those fields;
- understand human development according to currently accepted theory and research, which implies a thorough familiarity with the developmental characteristics of students at the stage of development at which they expect to teach, and skill in observing and understanding behavior;

- familiar with theories of learning and motivation and ability to use this knowledge in facilitating learning by students in educational settings;
- ability to organize and manage the classroom for developmentally appropriate learning and to maintain an effective learning environment taking into account the diversity of the individual and cultural differences;
- innovative teaching techniques appropriate to the learners with whom the candidate will be working;
- foster learning, growth and development in students for whose education the teacher is responsible;
- understand the organizational structures of the schools and resources at school district and state levels;
- design lessons with a global view of the function of schools in a democracy and familiarity with social, political and economic factors affecting schools and educational policy; and
- integrate the use of technology appropriate to the teaching and learning situation.

b. Needs the program will meet

National documents show that Middle School and High School teachers in the Science, Technology, Engineering, and Mathematics (STEM) programs are in high demand in many states including Georgia.

“According to the White House, a substantial STEM teacher shortage exists today. Overall, up to one million teachers will need to be recruited over the next five years, and vacancies in math and science are often among the hardest to fill”.

“Our commitment to growing the STEM teacher corps is evident by the sheer number of our members receiving awards today,” said Van Roekel. Fifty-six of the 100 honorees are NEA K-12 and higher education members... (Source <http://www.nea.org/home/37542.htm>)

Kelly C. Henson (2008), Executive Secretary of the Georgia Professional Standards Commission in a report stated; “By 2012, 28,749 new teachers will be needed *that year* to meet growth and replacement demands. In the same report, the Alliance of Education Agency Heads recommended:

- Georgia students must have available high-level science and mathematics courses in order to compete nationally and internationally
- Increase Science Teacher Education Programs
- Increase flexibility for institutions to design preparation programs
- Design and implement statewide intensive new teacher induction program

The USG Presidents' Science, Technology, Engineering, and Mathematics (STEM) Initiative (2009) report below shows the critical need for STEM programs.

STEM Report
MATH + SCIENCE = SUCCESS
USG Presidents' Science, Technology, Engineering, and Mathematics (STEM) Initiative

Charge: Increase the number of K-12 students interested in mathematics/science/engineering, the number of students in college who pursue the STEM disciplines, and the number of teachers prepared who are better able to keep K-12 students in the STEM pipeline.

Intended Outcomes: Excellence in the STEM Initiative is defined as meeting the following intended outcomes:

Item #	By Year	Intended Outcome of the University System of Georgia ¹	Baseline	Baseline Year
1	2013	Number of baccalaureate degrees in STEM disciplines will increase to at least 7,200 ²	4,726 ³	2006
2	2013	Number of baccalaureate degrees in engineering and engineering technology will increase to at least 2,800	1,828	2006
3	2013	Number of baccalaureate degrees with a major in mathematics will increase to at least 400	196	2006
4	2013	Number of baccalaureate degrees with majors in chemistry, geosciences, and physics will increase to at least 420, 80, and 130, respectively	215-Chm 41-Geo 67-Phys	2006
5	2013	Number of middle grades teachers with a concentration in mathematics will increase to at least 480 per year	276	2006
6	2013	Number of middle grades teachers with a concentration in science will increase to at least 350 per year	200	2006
7	2013	Number of high school mathematics teachers will increase to at least 270 per year	135	2006
8	2013	Number of high school science teachers will increase to at least		2006
		160 in Biology	54	
		45 in Chemistry	9	
		15 in Physics	3	
		20 in Earth Sciences	1	
9	2013	Success rates with a grade of C or better in introductory STEM courses will increase to at least 75%	50%-70%	2006
10	2013	Number of high school students taking college preparatory science and mathematics courses will increase by at least 20%	67% or 55,077	2006

Source: www.usg.edu/educator_prep/documents/stemsummary.pdf - 2009-06-29

Currently, no USG programs are in the service area offering the Bachelor of Science in Biology Education. The proposed degree program at Savannah State University could supply additional science teachers in its service area (Chatham, Bryan, and Effingham counties) and the southeastern region of Georgia. Additionally, Savannah State University (SSU) has been the main aperture through which ethnic minorities in Georgia have entered the technical professions. The University offers quality education in science, technology, engineering and mathematics (STEM). Significant challenges to maintaining the quality of academic programs have been to recruit and retain minority students in large numbers and to encourage them to continue their education in graduate schools in these disciplines.

Graduates of the new degree program can continue their education at the graduate level through the campus Minority Access to Graduate Education and Careers in Science, Technology, Engineering and Mathematics (MAGEC-STEM) program. MAGEC-STEM is designed to establish a framework for the production of a continuous stream of highly competent and well qualified minority scientists, technologists, engineers and mathematicians. This goal will be achieved through a vigorous and cost effective implementation of a number of activities, such as faculty development, curriculum review and revision, infrastructure development, student tracking and midstream interventions, career counseling and exploration, experiential training, a pre-freshman/head-start program, and selective recruitment to ensure a perpetual supply of high-ability/high-potential STEM students.

c. Brief explanation of how the program is to be delivered

The program will be delivered through innovative use of technology blended within the context of the traditional classroom and field experience format. This blended format will provide opportunities for flexible hybrid courses (combinations of face-to-face, online and virtual); online courses using Blackboard Class Management Software; and virtual classrooms using Polycom Telepresence Solutions, Wimba Classroom Suite, Skype, WizIQ, etc.) .

d. Prioritization within the institution’s strategic plan

The proposed program supports the institution’s strategic plan:

The university’s strategic plan focuses on “value added” and demonstrates the support of expanding opportunities for the university to meet the needs of community and region. The proposed new Bachelor of Science in Biology Education program encompasses and is integral to the central focus of the strategic plan by providing opportunities for students (traditional and non-traditional) to add value to the community, region and across the state. Once approved and implemented, the new program aligns well with Goals 1 and 2 of the university’s Strategic Plan “Vision 2018”.

Goal 1: Savannah State University will maximize its comparative advantage through academic excellence, applied learning, effective educational support, and community involvement.

Goal 2: Savannah State University will continue to build its institutional capacity through the continuous improvement and expansion of academic programs, student support, infrastructure, technology, and community relations.

Additionally, the proposed new program aligns with the USG’s vision statement, mission, and strategic goals:

Board of Regent’s Vision: “The University System of Georgia will create a more educated Georgia, well prepared for a global, technological society, by providing first-rate undergraduate and graduate education, leading-edge research, and committed public service.”

The mission of the University System of Georgia is to contribute to the educational, cultural, economic, and social advancement of Georgia by ...providing excellent undergraduate general education and first-rate programs leading to associate, baccalaureate, masters, professional, and doctorate degrees.

“The University System of Georgia will create a more educated Georgia, well prepared for a global, technological society, by providing first-rate undergraduate and graduate education...”

Strategic Goal One: Renew excellence in undergraduate education to meet students’ 21st century educational needs.

Strategic Goal Two: Create enrollment capacity to meet the needs of 100,000 additional students by 2020.

2. Description of the program’s fit with the institutional mission and nationally accepted trends in the discipline.

The proposed Bachelor of Science in Biology Education is integral to the nationally accredited program in the liberal arts and sciences described in the mission of the university. The proposed education program fits well within the mission of the university by developing teachers who will be productive members of a global society providing high quality instructions, scholarship, research, and service to the SSU community. The new program will use a variety of technological tools to deliver program content demonstrating strength of the university’s College of Sciences and Technology.

Mission of Savannah State University:

As a unit of the University System of Georgia, Savannah State University offers nationally accredited programs in liberal learning, sciences, fine arts, and the professions. The University is committed to the development of leaders and high quality instruction, supported by scholarship, research, and environmental enrichment with emphasis on the African American heritage and culture and international interaction.

Mission of the new Department of Teacher Education:

The primary mission of the Department of Teacher Education (DOTE) is to prepare professional educators with the knowledge, skills, and dispositions to serve the diverse educational and technological needs of the region. The DOTE emphasizes efficient and successful teaching practices, policies, and procedures based on state and national standards to enhance efficiency of academic achievement of all Pre K-12 students. To fulfill this mission, faculty: design, deliver, and continually improve highly effective programs for pre-professionals through advanced graduate and professional levels; promote and are influenced by the reciprocal relationship between scholarship and practice; collaborate with colleagues across the campus and in other professional and community settings as partners in the mission; and provide leadership in

teaching, learning, assessment, and professional development for diverse community within and outside the University.

National Trends:

The proposed Biology Education program will focus on national trends surrounding STEM.

National-level assessment of U.S. students' knowledge of math and science is a relatively recent phenomenon, and assessments in other countries that provide for international comparisons are even more recent. Yet the limited information available thus far is beginning to reveal results that concern many individuals interested in the U.S. educational system and the economy's future competitiveness. The most recent assessments show improvement in U.S. pupils' knowledge of math and science; however, the large majority still fails to reach adequate levels of proficiency. Moreover, when compared to other nations, the achievement of U.S. students is seen by many as inconsistent with the nation's role as a world leader in scientific innovation.

Source - <http://www.fas.org/sgp/crs/misc/RL33434.pdf>

3. Description of how the program demonstrates demand and a justification of need in the discipline and geographic area and is not unnecessary program duplication.

The U.S. Department of Education (2009) data has listed biology education (7-12) on the critical teacher shortage list for Georgia. A few years after implementation; the proposed new degree program will help in easing the critical shortage of STEM teachers in the geographic area. There are three colleges/universities in the immediate service area of Savannah State University. After reviewing the inventory of academic programs from the USG website, the proposed program will not duplicate existing degree programs at Armstrong Atlantic University, Georgia Southern University or Georgia Coastal College. Regional demographic data show public schools in the service area are offering 6-12 programs related to the proposed program

U.S. Department of Education Office of Postsecondary Education Policy & Budget Development Staff (2009). Teacher shortage areas nationwide listing 1990-91 thru 2009-10. OMB No.: 1840-0595.

4. Brief description of institutional resources that will be used specifically for the program (e.g., personnel, library, equipment, laboratories, supplies & expenses, capital expenditures at program start-up and when the program undergoes its first comprehensive program review.

Personnel – Personnel needs for the proposed degree program are: One administrative position (Director); one methods faculty position (first two years; third year an additional faculty position will be requested), one assessment coordinator, and an administrative assistant. Currently, funds are available to support this position by reallocating budgeted funds and revenues generated from overall university enrollment increases. Advertisements for the methods faculty positions will indicate that applicants need to be qualified for both undergraduate and graduate assignments.

Projected cost for all personnel is discussed in the budget narrative later in this proposal. There are adequate faculty members in the content discipline to begin the program.

Library - The ASA H. Gordon Library resources are currently adequate to support the needs of the program. Gordon Library provides access to an integrated, web-based catalog of all the book collections of the University System of Georgia (over six million volumes - 60% of the titles are unique), a circulation system with self-service options, cataloging, and check-in and control functions. The library, which houses the university archives, is home to an extensive collection of material about African-Americans. As part of the library's participation in GALILEO, Georgia's statewide virtual library, students have access to over 400 full-text journal titles in the subject area of education.

The proposed degree program will need a Curriculum Materials/Media Center (CMC). The CMC will be located in the current library. The DOTE will need \$20,000 to begin the process of building resources to develop a CMC. The CMC will employ modern technology in services offered to increase users' social, intellectual, and global interaction. The CMC will be integral to the library and subscribes to a limited number of CD-ROM databases and print resources from other institutions that may be accessed through interlibrary loan.

Equipment - The program will employ existing classroom technology presently available in the COST. There are no additional needs anticipated when the program undergoes the Comprehensive Program Review. There are additional available classroom spaces properly outfitted with computers, software, and digital projectors that could be used as enrollment expands.

Laboratories - As with the equipment and classroom needs cited above, existing laboratories will be sufficient to support the new program.

Supplies and Expenses – The cost of supplies and expenses will be minimal and can be absorbed in the normal budgeting for COST supplies and expenses.

Capital - All facilities and furnishing needed to support the proposed program are already in place and are sufficient to meet new program accrediting body's requirements.

Facilities – Our current College of Sciences and Technology facilities are adequate and can support the needs of the new degree program.

Start-up Costs - The primary costs for start-up of the program will focus on the purchase of library/learning resources, and marketing and advertising. Other start-up costs will be covered through Education and General (E & G) funds. Approximate start-up costs for the program will be \$13,017 to cover recruitment, accreditation fees, assessment system software, and marketing.

Operating Costs - Operating costs will include consumable supplies, travel for professional development of faculty, and the purchase of additional library/learning resources for the ASA H. Gordon Library center library (see below). Approximate operating costs for the first two years

will be \$7764; fees collected from increased enrollment will defray costs not covered through E & G funds.

5. Curriculum: List the entire course of study required and recommended to complete the degree program. Provide a sample program of study that would be followed by a representative student.

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Course of Study

**Bachelor of Science
Biology - Secondary Education Concentration**

Core Curriculum Grid

All students should complete the sixty hours of core curriculum requirements during their first two years of enrollment and prior to their enrollment in their major classes, exclusive of those specified in Area F (courses appropriate to the program of study) of the core.

In addition to the sixty hours in Areas A, B, C, D, E, and F, students may be required to complete five additional hours of required courses for a maximum total of 65 hours.

“A baccalaureate degree program must require at least 21 semester hours of upper division courses in the major field and at least 39 semester hours of upper division work overall.”

Core Area A-Essential Skills		9 hours
ENGL 1101	Composition I	3 hours
ENGL 1102	Composition II	3 hours
MATH 1111	College Algebra	3 hours
	<i>(for non-science majors)</i>	
MATH 1113	Pre-calculus	3 hours
	<i>(for science majors)</i>	

(Because these are "essential skills," all courses in this area must be completed with a grade of "C" or higher.)

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Core Area B-Institutional Options		5 hours
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AFRS 1501	African American History	2 hours
HUMN 1201	Critical Thinking & Communication	3 hours
	<i>(effective Spring 2005)</i>	

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Core Area C-Humanities/Fine Arts		6 hours
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Select one of the following:

ENGL 2110	World Literature	3 hours
ENGL 2121	British Literature I	3 hours
ENGL 2122	British Literature II	3 hours
ENGL 2131	American Literature I	3 hours
ENGL 2132	American Literature II	3 hours

ENGL 2222	African American Literature	3 hours
RPHS 2101	Introduction to Philosophy	3 hours
RPHS 2241	Ethics	3 hours

Select one of the following:

ARTS 1101	Intro. to Visual Arts	3 hours
ENGL 2521	Intro. to Film Appreciation	3 hours
HUMN 2011	Humanities	3 hours
MUSC 1101	Intro. to Music	3 hours
THEA 2101	Intro. to Theatre	3 hours

Core Area D-Science, Mathematics and Technology 10 hours

Option I- Non-Science Majors

Select two 3-hour courses from the following:

BIOL 1103	General Biology	3 hours
BIOL 1104	Human Biology	3 hours
CISM 1130	Computer Applications	3 hours
CSCI 1130	Computer Applications	3 hours
ENVS 1140	Environmental Issues	3 hours
ISCI 1101	Integrated Science I	3 hours
PHYS 1001	Intro. to Astronomy	3 hours

Select one 4-hour course or one 3-hour course and lab from the following:

BIOL 1103	General Biology I	3 hours
BIOL 1103L	General Biology I Lab	1 hour
BIOL 1104	Human Biology II	3 hours
BIOL 1104L	Human Biology II Lab	1 hour
CHEM1101K	Intro. to Chemistry	4 hours
ISCI 1111K	Integrated Science II	4 hours
PHSC 1011K	Physical Science I	4 hours
PHYS 1111K	Introductory Physics I	4 hours

Option II- Science Majors 11 hours

Select one- 3 hour course

BIOL 1107	Principles of Biology I	3 hours
CISM 1130	Computer Applications	3 hours
CSCI 1130	Computer Applications	3 hours
CHEM 1211	Principles of Chemistry I	3 hours
ENVS 1140	Environmental Issues	3 hours
PHYS 1001	Intro. to Astronomy	3 hours

Select two- 4 hour courses or two 3-hour courses and lab:

BIOL 1107	Principles of Biology I	3 hours
BIOL 1107L	Principles of Biology I Lab	1 hour
BIOL 1108	Principles of Biology II	3 hours
BIOL 1108L	Principles of Biology II Lab	1 hour
CHEM 1211	Principles of Chemistry I	3 hours
CHEM 1211L	Principles of Chemistry I Lab	1 hour
CHEM 1212	Principles of Chemistry II	3 hours

CHEM 1212L	Principles of Chemistry II Lab	1 hour
PHSC 1011K	Physical Science I	4 hours
PHSC 1012K	Physical Science II	4 hours
PHYS 1111K	Introductory Physics I	4 hours
PHYS 1112K	Introductory Physics II	4 hours
PHYS 2211K	Principles of Physics I	4 hours
PHYS 2212K	Principles of Physics II	4 hours

Area E-Social Sciences **12 hours**

POLS 1101	American Government	3 hours
POLS 2401	Global Issues	3 hours

Choose one of the following:

HIST 2111	U.S. History to the Post-Civil War Period	3 hours
HIST 2112	U.S. History from the Post-Civil War Period- Present	3 hours

Choose one of the following:

AFRS 2000	Intro. to Africana Studies	3 hours
ANTH 1101	Intro. to Anthropology	3 hours
ECON 2105	Principles of Macro-Economics	3 hours
GEOG 1101	Intro. to Human Geography	3 hours
HIST 1111	World Hist. to Early Modern Times	3 hours
HIST 1112	World Hist. Early Modern Times to Present	3 hours
PSYC 1101	Intro. to Psychology	3 hours
PSYC 2103	Human Growth & Development	3 hours
SOCI 1101	Intro. to Sociology	3 hours
SOCI 1160	Social Problems	3 hours

Additional University Requirements **5 hours**

FRES 1101	Freshman Year Experience I	1 hour
FRES 1102	Freshman Year Experience II	1 hour
FRES 1103	Freshman Year Experience (Combined I and II)	2 hours

Choose additional three (3) hours from any of the approved offerings for Additional University Requirements.

Area F- Core Curriculum **18 hours**

BIOL 1107	Principles of Biology I	3 hours
BIOL 1107L	Principles of Biology I Lab	1 hour
BIOL 1108	Principles of Biology II	3 hours
BIOL 1108L	Principles of Biology II Lab	1 hour
BIOL 2515K	Human A&P I	4 hours
BIOL 2516K	Human A&P II	4 hours

Additional math/science computer or approved electives 2 hours within University Core Curriculum, specific to the major course of study.

Upper Division Biology Core for All Biology Majors **24 hours**

BIOL 3101	Botany	3 hours
BIOL 3101L	Botany Lab	1 hour
BIOL 3211	Zoology	3 hours
BIOL 3211L	Zoology Lab	1 hour
BIOL 3301	Genetics	3 hours
BIOL 3301L	Genetics Lab	1 hour
BIOL 3321	Microbiology	3 hours
BIOL 3321L	Microbiology Lab	1 hour
BIOL 3621	Urban Health & Hygiene	3 hours
BIOL Electives		3 hours

Professional Education Courses **36 hours**

EDUC 2110	Investigation Critical/Contemporary Issues	3 hours
EDUC 2120	Exploring Socio-Culture	3 hours
EDUC 2130	Exploring Teaching & Learning	3 hours
EDUC 3030	Exploring-Exceptional Learner	3 hours
EDUC 3200	Curriculum and Assessment	3 hours
BIED 4416	Teaching of Biology	3 hours
BIED 4417	Teaching of Biology Practicum	3 hours
ITED 2000	Instructional Technology (Computers for Teachers)	3 hours
EDUC 4475	Student Teaching & Seminar	12 hours

Total =====> **(120 + 5 = 125)**

Sample Program of Study
BSED – Biology (Secondary Education Concentration)

FRESHMAN YEAR

FIRST SEMESTER	CR	SECOND SEMESTER	CR
ENGL 1101	3	ENGL 1102	3
MATH 1113 Pre-Calculus	3	BIOL 1108 + Lab Prin. Of Biol. II	4
BIOL 1107, + Lab. Prin. of Biol. I	4	ITED 2000 IT Computers for Teachers	3
CHEM 1211 & 1211L Principles of Chemistry I	4	FRES 1102 Freshman Yr. Exp II	1
FRES 1101 Freshman Year Experience	1	CHEM 1212 & 1212L Principles of Chemistry II	4
Health Elective	1	AFRS 1501 African American History	2
TOTAL HOURS	16	TOTAL HOURS	17

SOPHOMORE YEAR

FIRST SEMESTER	CR	SECOND SEMESTER	CR
POLS 1101 American Government	3	POLS 2401 Global Issues	3
BIOL 2515K	4	BIOL 2516K	4
HUMN 1201 Critical Thinking & Communication ISCI	3	EDUC 2130 Teaching and Learning	3
EDUC 2110 Investigating Critical/Contemporary Issues	3	Area F Elective – Computer Course	2
CSIC/CISM – Computer Applications	3	HIST 2111	3
TOTAL HOURS	16	TOTAL HOURS	15

JUNIOR YEAR

FIRST SEMESTER	CR	SECOND SEMESTER	CR
BIOL 3101/3101L – Genetics	4	BIOL 3301/3301L – Genetics	4
BIOL 3211/3211L Zoology	4	PSYC 2103 Human Growth and Development	3
BIOL Elective	3	HUMN 2011 Humanities	3
EDUC 2120 Exploring Socio-Culture	3	RPHS 2101 Introduction to Philosophy	3
BIOL 3321/3321L Microbiology	4	Health Elective	2
TOTAL HOURS	18	TOTAL HOURS	16

SENIOR YEAR

FIRST SEMESTER	CR	SECOND SEMESTER	CR
EDUC 3030 Exploring-Exceptional Learner	3	EDUC 3200 – Curriculum and Assessment (Online Course)	3
BIOL 3621 Urban Health & Hygiene	3	EDUC 4475 Student Teaching	12
BIED 4416 Teaching Biology	3		
BIED 4417 Teaching Practicum	3		
TOTAL HOURS	12	TOTAL HOURS	15

Total Semester Hours = (120 + 5 = 125)

a. Clearly differentiate which courses are existing and which are newly developed courses. Include the course titles as well as acronyms and credit hour requirements associated with each course.

Courses Existing or New

Course Number	Course Name	Hours	Existing or New
AFRS 1501	African American History	2	Existing
AREA F (Electives)	Math/Science Approved Electives	2	Existing
BIED 4416	Teaching Biology	3	New
BIED 4417	Practicum for Teaching Biology	3	New
BIOL 1107	Principles of Biology I	3	Existing
BIOL 1107L	Principles of Biology I (Lab)	1	Existing
BIOL 1108	Principles of Biology II	3	Existing
BIOL 1108L	Principles of Biology II (Lab)	1	Existing
BIOL 2515K	Human A&P I	4	Existing
BIOL 2516K	Human A&P II	4	Existing
BIOL 3101	Botany	3	Existing
BIOL 3101L	Botany Lab	1	Existing
BIOL 3211	Zoology	3	Existing
BIOL 3211L	Zoology Lab	1	
BIOL (Elective)	Approved Biology Elective	3	Existing
BIOL 3211L	Zoology Lab	1	Existing
BIOL 3301	Genetics	3	Existing
BIOL 3301L	Genetics Lab	1	Existing
BIOL 3321	Microbiology	3	Existing
BIOL 3321L	Microbiology Lab	1	Existing
BIOL 3621	Urban Health & Hygiene	3	Existing
CHEM 1211	Principles of Chemistry I	3	Existing
CHEM 1211L	Principles of Chemistry I	1	Existing
CHEM 1212	Principles of Chemistry II	3	Existing
CHEM 1212L	Principles of Chemistry II	1	Existing
CSIC/CISM 1130	Computer Applications	3	Existing
EDUC 2110	Investigation of Critical/Contemporary Issues	3	New
EDUC 2120	Exploring Socio-Culture	3	New
EDUC 2130	Exploring Teaching & Learning	3	New
EDUC 3030	Exploring-Exceptional Learner	3	New
EDUC 3200	Curriculum and Assessment	3	Existing
EDUC 4475	Student Teaching/Internship	12	New
ENGL 1101	Composition I	3	Existing
ENGL 1102	Composition II	3	Existing
FRES (Elective)	Freshman Experiences	2	Existing
HEDU (Elective)	Health Education Elective	3	Existing
HIST 2111	A Survey of U.S. History to the Post-Civil War Period	3	Existing
HUMN 1201	Critical Thinking & Communication	3	Existing

HUMN 2011	Humanities	3	Existing
ITED 2000	Instructional Technology (Computers for Teachers)	3	New
MATH 1113	Pre-Calculus	3	Existing
POLS 1101	American Government	3	Existing
POLS 2401	Global Issues	3	Existing
PSYC 2103	Human Growth and Development	3	Existing
RPHS 2101	Introduction to Philosophy	3	Existing
	TOTAL SEMESTER HOURS =====>	125	

b. Append course descriptions for all courses (existing and new courses).

(See Appendix A)

c. When describing required or elective courses, list all course prerequisites.

(See Appendix A)

d. Provide documentation that all courses in the proposed curriculum have met all institutional requirements for approval.

The proposed new degree curriculum with new and existing courses have been reviewed and discussed at various institutional levels and has been approved for submission to the Board of Regents. Additionally, the new advisory committee for education; composed of faculty, administrators, P-12 principals, and other community leaders was integral to the development of the proposed new degree and supports the proposed new degree's curriculum. Finally, the proposed new degree curriculum has the full support and approval of the Vice President for Academic Affairs and the University President. Copies of meeting agendas and minutes are in appendix.

(See Appendix D)

e. Append materials available from national accrediting agencies or professional organizations as they relate to curriculum standards for the proposed program.

The BSED in Biology will be reviewed by the Georgia Professional Standards Commission and accredited by the National Council for the Accreditation of Teacher Education. In addition to aligning the six NCATE standards and the Georgia Professional Standards, the proposed degree program aligns with the National Science Teachers Association.

(See Appendix B)

f. Indicate ways in which the proposed program is consistent with national standards. All components of the proposed programs must be consistent with both state and national standards.

Program goals, objectives and student learning outcomes are consistent and based upon the standards set forth by the National Science Teachers Association/NCATE accreditation standards

(NSTA, 2003). All courses have stated goals and objectives that are listed on the course syllabus.

All courses in the new program are designed to meet the professional NSTA/NCATE, and state standards identified in Appendix B. The Professional Standards Commission has adapted the *Professional Standards for the Accreditation of Schools, Colleges, and Departments of Education* published by the National Council for the Accreditation of Teacher Education (NCATE) for use in the Georgia professional education unit and preparation program approval process.

(See Appendix B)

g. If internships or field experiences are required as part of the program, provide information documenting internship availability as well as how students will be assigned and supervised.

Candidates will be required to observe and work with 6-12 students and teachers throughout the teacher education program with field experiences and student teaching internship. The field experiences for this proposed program will allow the teacher candidate to apply content and theory. Teacher candidates will observe, practice and implement effective teaching strategies for 6-12 students. As a part of their field work, candidates will reflect on their experiences through electronic portfolios and other work samples. Cooperating teachers, DOTE supervisors, and teacher candidates will evaluate their performances in assigned field experiences and internship. In addition, teacher candidates will be observed and evaluated by supervisors and faculty in each of the methods courses.

The Department of Teacher Education will appoint a Field Experience Coordinator to monitor all students' field experiences. Educational leaders in the service areas have agreed to partner with the DOTE and provide master teachers where students can complete required field experiences and internships.

h. Indicate the adequacy of core offerings to support the new program.

The current frequency of offerings for courses in the core of this proposed curriculum is adequate for the anticipated enrollment in this program. Currently there are several sections of core courses to support the new program. These courses are offered multiple times every year in Engineering Technology, Natural Sciences and Mathematics, and Liberal Arts. Initially, it is anticipated that only one or two sections of the core courses will be required for new program students.

6. Admissions criteria. Please include required minimal scores on appropriate standardized tests and grade point average requirements.

Freshman Applicant/Regular Admission:

Acceptance to the University is determined on the basis of a Freshman Index, which is calculated by using a numerical formula (See Freshmen Index below). The required Freshmen Index for Fall 2002 is 1940. The high school curriculum, ACT or SAT scores, and the high school college preparation grade point average are used to determine admissions. Applicants must be a graduate of an accredited high school (regional accrediting association or a public school regulated by a school system and state department of education) with a diploma (a certificate of attendance is not acceptable). The University requires the students' final high school transcripts before they are allowed to attend classes. Applicants graduating from high school less than 5 years or earlier, must complete requirements of the College Preparatory Curriculum (CPC) of the Board of Regents (see College Preparatory Curriculum).

Regular Admissions Requirements:

- Freshman Index of 1940
- SAT Critical Reading score of 430 SAT Math score of 400
- Or ACT English 17, ACT Math 17, and ACT Composite 17
- 2.2 GPA
- 16 CPC Units

Admissions Procedures:

- **Application form.** Applicants seeking admission must file an application for admission prior to the specified deadline as indicated in the academic calendar. An application may be obtained from the Office of Admissions or on-line at <http://www.savannahstate.edu/em/admissions/apply.htm>.
- **Certificate of immunization.** All applicants must submit a University System of Georgia Certificate of Immunization as a condition of enrollment. **This form must be on file before registration.**
- **Application fee.** A non-refundable processing fee of \$20.00 is required with all applications.
- **Official transcript(s) of courses completed.** All documents must be on file in the Office of Admissions prior to the specified document **deadline**. Freshmen applicants should request their high school guidance department to send an official copy of their transcript. Non-traditional adult candidates must submit an official high school transcript and official college transcript(s), if applicable. Transfer candidates with fewer than 45 transferable quarter hours, or 30 transferable semester hours (students in this category must have completed two college level English courses and one college level math course) should submit official transcripts from their high schools and from all colleges previously attended.
- **Copies of test scores.** The Scholastic Aptitude Test (SAT I) or The American College Testing Program (ACT) tests are required for all freshmen applicants and transfer students not meeting transfer requirements. Transfer candidates who have attempted fewer than 45 transferable core quarter hours or 30 transferable semester hours must also submit SAT I or ACT scores and submit an official copy of their high school transcript.

- ***Other requirements.*** The University may require applicants to appear for a personal interview and to take any achievement, aptitude, and psychological tests it deems appropriate in order to make a decision regarding the qualification for admission to the University. Once admitted, all students are required to take a Writing Assessment. Some students may also be required to take placement tests in English, reading, and/or mathematics.

Department of Teacher Education Admission:

During the first three semesters, students interested in Secondary Education should take EDUC 2110 – Investigating Critical/Contemporary Issues in Education, EDUC 2120 – Exploring Socio-Cultural Diversity, and EDUC 2130 - Exploring Teaching & Learning. Students should also fill as many General Education requirements as possible. PSYC 1101 is a prerequisite for the Secondary Education Program and will also count as a Social Science in Core Area E requirements.

Secondary Education majors are available in the following areas of teacher certification: Biology, Mathematics, and Technology Education. A specific list of subject matter requirements for each teaching certification in Secondary Education grades 6-12 is available from the Department of Teacher Education. All prospective Secondary Education students should apply to the Department of Teacher Education during the semester that they attain 42 credits.

Applicants must have a minimum cumulative G.P.A. of 2.7, as well as a G.P.A. of 2.7 in education and the area of certification. A test of academic skills prior to admission is required. Candidates admitted into initial preparation programs at the post baccalaureate level have attained appropriate depth and breadth in both general and content studies, with a minimum of a bachelor’s degree from a GAPSC accepted accredited institution.

7. Availability of assistantships (if applicable). (Not Applicable)

8. Student learning outcomes and other associated outcomes of the proposed program.

Teacher candidates who graduate from the proposed program will develop the knowledge, skills and dispositions to teach in grades 6-12. In order to achieve this goal, the program will focus on the following outcomes that coincide with the National and Professional Standards for professionals in the field. General Student learning outcomes from the Georgia Professional Standards Commission are:

- *Identification and education of children with special needs*

Candidates in all teaching fields must complete three or more semester hours, or the equivalent, in the identification and education of children who have special educational needs.

- *Use, application, and integration of instructional technology*

Candidates have demonstrated proficiency in the use, application, and integration of instructional technology, either by attaining an acceptable score on a PSC-approved test of computer skill competency or by completing a PSC-approved training course or equivalent.

- Georgia P-12 curriculum

Candidates are prepared to implement the appropriate sections of any Georgia mandated curriculum (e.g. Georgia Performance Standards, GPS, Quality Core Curriculum, QCC) in each relevant content area.

- Professional ethical standards and requirements for certification and employment

Candidates are provided with information about professional ethical standards, criminal background check, and clearance for certification and employment.

(See Appendix B for NSTA candidate/student outcomes Science Teachers.)

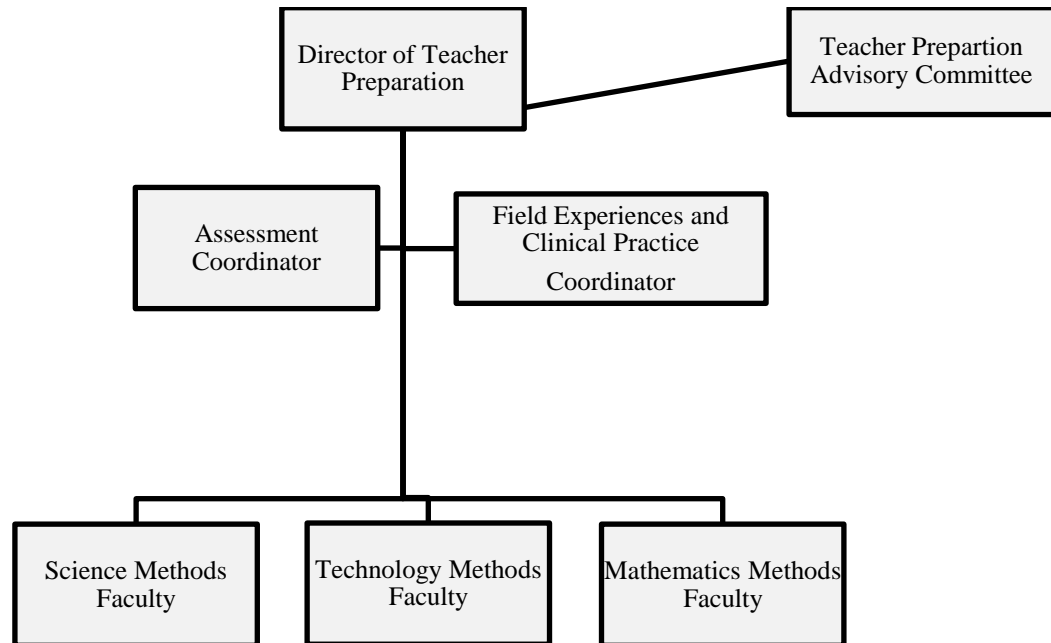
9. Administration of the program:

- a. Indicate where the program will be housed within the academic units of the institution.
- b. Describe the administration of the program inclusive of coordination and responsibility.

The program will be housed in the College of Sciences and Technology's new Department of Teacher Education. The college currently is comprised of three departments. The new Department will be led by a director who reports directly to the Vice President for Academic Affairs. The director of the Department of Teacher Education is the unit head and is responsible for the academic management of the department. The director's major responsibility is to ensure that all programs in the department are managed in accordance to college, university, state, and national standards. An Assessment Coordinator will manage the unit's Assessment System to track all outcome performance data. A Field and Clinical Experiences Coordinator will be assigned to advise students and monitor field, clinical/internship experiences. Additionally, there will be a methods faculty assigned. Other faculty responsibilities will be managed by faculty part-time to the DOTE but full-time to the content area in another university department. Oversight for this and all programs in the department is ultimately the responsibility of the Director of the Department of Teacher Education. The chart that follows, illustrates the department's organization with all proposed programs represented.

The Department of Teacher Education

Organizational Chart



10. Waiver to Degree-Credit Hour (if applicable): If the program exceeds the maximum credit hour requirement at a specific degree level, then provide an explanation supporting the increase in hours (Note: The maximum for bachelor's degrees is 120-semester credit hours and the maximum for master's degrees is 36-semester credit hours).

None

11. Accreditation: Describe disciplinary accreditation requirements associated with the program (if applicable).

The program is required to be accredited by National Council for the Accreditation of Teacher Education (NCATE) and to be nationally recognized by its specialized professional association SPA.

The Georgia Professional Standards Commission has adapted the *Professional Standards for the Accreditation of Schools, Colleges, and Departments of Education* published by the National Council for the Accreditation of Teacher Education (NCATE) for use in the Georgia professional education unit and preparation program approval process. The adapted standards

include all six of the NCATE standards, as well as two additional standards that address Georgia-specific requirements. The adapted standards, the *Georgia Standards for the Approval of Professional Education Units and Preparation Programs* (effective 09/1/08) apply to all professional education units and preparation programs in Georgia.

In addition to the GaPSC and NCATE standards, the program must meet all standards to be recognized nationally by the National Science Teachers Association. The NSTA is the national (SPA) for science teachers.

12. Projected enrollment for the program especially during the first three years of implementation. Please indicate whether enrollments will be cohort-based.

Projected Enrollment for the Program

It is projected that approximately 15 to 20 students will initially enroll in the program. As the program develops and grows, it is anticipated that an average of 15-25 students will continue to enroll and participate as the program becomes known.

ENROLLMENT PROJECTIONS	First Year FY 2012	Second Year FY 2013	Third Year FY 2014
New	15	20	20
Existing	0	15	23
Attrition (Retention Rate = .75)	0	-4	-8
Total Majors	15	31	53

The enrollment projections are not cohort-based.

These projections are based on survey results which indicate that approximately 25 students will enter the program in the first two years of the program, and informal surveys of current students show that at least 15 currently-enrolled students desire to transfer in the program. As such, the projection of 25 new students per year is conservative.

13. Faculty

- a. Provide an inventory of faculty directly involved with the administration of the program. For each faculty member, provide the following information:

(See Appendix C - Table for Faculty Directly Involved with Program)

Total Number of Faculty: 1- FTE first two years; an additional faculty will be requested for year three; see Enrollment Projections Narrative.)

- b. **If it will be necessary to add faculty in order to begin the program, give the desired qualifications of the persons to be added, with a timetable for adding new faculty and plan for funding new positions.**

Faculty Title	Qualifications	Timetable	Plan for Funding
Assistant Professor Biology Education (6-12) Methods	Terminal degree (Ed.D. or Ph.D.) in the content area (Biology Education) from an accredited institution. (Tenure-Tracked position)	One new faculty first two years. Third year of implementation, we will request an additional full-time faculty.	Funds from reallocation of existing positions, increased university enrollment resources, and from program generated funds.

14. Fiscal, Facilities, Enrollment Impact, and Estimated Budget

Provide a narrative that explains how current institutional resources will be expended specifically for this program. Provide a narrative that explains how the institution will fiscally support the establishment of the new program through the redirection of existing resources and acquisition of new resources. Indicate whether the institution will submit a request for new funds as part of its budget request. The narrative also needs to explain the basis of the institution’s projections with regard to anticipated EFT, head count, student enrollment, estimated expenditures, and projected revenues.

The proposed bachelor degree program will be implemented combining existing resources, resources developed from budget redirection, and from funds due to the increased student enrollment at Savannah State University. During the third and fourth year, the program becomes more self-supporting and will reduce the need for special university funding. The following narratives explain anticipated EFT, head count, student enrollment, estimated expenditures, and projected revenues.

I. ENROLLMENT PROJECTIONS NARRATIVE YEAR 1

15 new students will enroll in Freshman Courses

Course Sections Satisfying Program Requirements

2 **NEW** courses are needed each semester

1 Sections of **EACH COURSE** is needed each semester (15 students per section)

4 Sections will be offered in Year 1

Credit Hours Generated by Those Courses

15 Students taking 4 courses per year =60 headcount/15 students/ courses =4

60x3 credit/hours = **90** credit/hours

II. EXPENDITURES

4 Course Sections in Year 1

Faculty load =12

Reassigned Position –

(One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + \$7,750 Fringe benefits (31%) = **\$32,750**

New Faculty

One full-time faculty @ \$45,000 (average faculty salary) =\$45,000

Administrator (Director) = \$25,334

Assessment Coordinator =\$13,334

Administrative Assistant = \$ 8,334

Fringe benefits calculated at 31% x (\$45,000 +\$25,334 +\$13,334 + 8,334) = \$ 28,521

*Total Personnel Expenditures: **\$120,523.00***

Start-up Costs (one-time expenses)

Library Resources (CMC in the Library) = \$6667

Assessment System (One Time Fee) = \$5,000

(NCATE Visit Fee) = \$1,350

*Total Start-up Cost = **\$13,017.00***

Operating Costs (recurring costs -base budget)

Supplies/Expenses: \$3000 +\$1264 (NCATE/AACTE Annual Fee) = \$4264

Travel: for one faculty to attend NCATE/AACTE Conference = \$1,500

*Total Recurring Costs=**\$7,764***

GRAND TOTAL COSTS: = \$174,054.00

III. REVENUE SOURCES

Reallocation of existing funds (One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + Fringe Benefits \$7750) = **\$32,750**

New Tuition:

15 students taking 4 courses per year =60 headcount

60 x 3 credit/hours = 180 credit/hours

180 credit/hours x \$130 /semester (\$260) = **\$ 46,800**

Student Fees

\$102 Student Institutional Fees + \$50 Technology Fee = \$152

15 students take course each semester = 30 fees of \$152 = **\$4660.00**
Other (Funds from new enrollment increases for the University) = **\$89,844**

GRAND TOTAL REVENUES: \$174,054.00

I. ENROLLMENT PROJECTIONS NARRATIVE - YEAR 2

11 - Students will return after Year 1 (current SSU retention rate .75) ($15 \times .75 = 11.25$)
20 – **New** students will enroll in Freshman Courses

Course Sections Satisfying Program Requirements

4 Sections of Existing Courses will be offered in Year 2

Credit Hours Generated by Those Courses

31 students taking 4 courses per year = 124 headcount
 124×3 credit/hours = 372 credit/hours

II. EXPENDITURES

4 Course Sections in Year 2

Reassigned Position –

(One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + \$7,750 Fringe benefits (31%) = **\$32,750**

New Faculty

One full-time faculty @ \$45,000 (average faculty salary) = \$45,000

Administrator (Director) = \$25,334

Assessment Coordinator = \$13,334

Administrative Assistant = \$ 8,334

Fringe benefits calculated at 31% x (\$45,000 + \$25,334 + \$13,334 + 8,334) = \$ 28,521

Total Personnel Expenditures: \$120,523.00

Start-up Costs (one-time expenses)

Library Resources (CMC in the Library) = 0

Assessment System (One Time Fee) = 0

(NCATE Visit Fee) = 0

Total Start-up Cost = 0

Operating Costs (recurring costs -base budget)

Supplies/Expenses: \$3000 + \$1264 (NCATE/AACTE Annual Fee) = \$4264

Travel: for one faculty to attend NCATE/AACTE Conference = \$1,500

Total Recurring Costs = \$7,764

GRAND TOTAL COSTS: = \$161,037.00

III. REVENUE SOURCES

Reallocation of existing funds (One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + Fringe Benefits \$7750) = **\$32,750.00**

New Tuition:

31 students taking 4 courses per year = 124 headcount

124×3 credit/hours = 372 credit/hours

372 credit/hours x \$130 /semester (\$260) = **\$96,720**

Student Fees

\$102 Student Institutional Fees + \$50 Technology Fee = \$152

31 students take course each semester = 62 fees of \$152 = **\$9,424**

Other (Funds from new enrollment increases for the University) = **\$22,143.00**

GRAND TOTAL REVENUES: \$161,037.00

I. ENROLLMENT PROJECTIONS NARRATIVE - YEAR 3

23 Students will return after Year 2 (current SSU retention rate .75) ($31 \times .75 = 23.25$)

20 new students will enroll in Freshman Courses

43 Students are projected

43 students x 4 classes = 172 headcount

Credit Hours Generated by Courses

43 students taking 4 courses per year = 172 headcount

172 x 3 credit/hours = 516 credit/hours

II. EXPENDITURES

4 Course Sections in Year 3

Faculty load = 12

Reassigned Position –

(One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + \$7,750 Fringe benefits (31%) = **\$32,750**

New Faculty

One full-time faculty @ \$45,000 (average faculty salary) = \$45,000

Request one (1) new full-time faculty position = \$45,000

Administrator (Director) = \$25,334

Assessment Coordinator = \$13,334

Administrative Assistant = \$ 8,334

Fringe benefits calculated at 31% x (\$45,000 + \$45,000 + \$25,334 + \$13,334 + 8,334) = \$ 42471

Total Personnel Expenditures: \$179,473.00

Start-up Costs (one-time expenses)

Library Resources (CMC in the Library) = 0

Assessment System (One Time Fee) = 0

(NCATE Visit Fee) = 0

Total Start-up Cost = 0

Operating Costs (recurring costs -base budget)

Supplies/Expenses: \$3000 + \$1264 (NCATE/AACTE Annual Fee) = \$4264

Travel: for one faculty to attend NCATE/AACTE Conference = \$1,500

Total Recurring Costs = \$7,764

GRAND TOTAL COSTS: = \$219,987.00

III. REVENUE SOURCES

Reallocation of existing funds (One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + Fringe Benefits \$7750) = **\$32,750.00**

New Tuition:

43 students taking 4 courses per year = 172 headcount

172 x 3 credit/hours = credit/hours

516 credit/hours x \$130 /semester (\$260) = **\$ 134,160.00**

Student Fees

\$102 Student Institutional Fees + \$50 Technology Fee = \$152

43 students take course each semester = 86 fees of \$152 = **\$ 13,072**

Other (Funds from new enrollment increases for the University) = **\$40,005.00**

GRAND TOTAL REVENUES: \$ 219,987.00

I. ENROLLMENT PROJECTIONS NARRATIVE - YEAR 4

32 Students will return after Year 2 (current SSU retention rate .75) ($31 \times .75 = 23.25$)
20 New students will enroll in Freshman Courses
52 Students are projected

Course Sections Satisfying Program Requirements

52 Students x 4 classes=208 headcount

Credit Hours Generated by Those Courses

52 Students taking 4 courses per year = 208 headcount
208 x 3 credit/hours = 624 credit/hours
Degrees Awarded (45% of Returning Students -- $32 \times .45$) = 14

II. EXPENDITURES

Reassigned Position –
(One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + \$7,750 Fringe benefits (31%) = **\$32,750**

New Faculty

One full-time faculty @ \$45,000 (average faculty salary) = \$45,000
Request one (1) new full-time faculty position = \$45,000
Administrator (Director) = \$25,334
Assessment Coordinator = \$13,334
Administrative Assistant = \$ 8,334
Fringe benefits calculated at 31% x (\$45,000 + \$45,000 + \$25,334 + \$13,334 + 8,334) = \$ 42471
Total Personnel Expenditures: \$179,473.00

Start-up Costs (one-time expenses)

Library Resources (CMC in the Library) = 0
Assessment System (One Time Fee) = 0
(NCATE Visit Fee) = 0
Total Start-up Cost = 0

Operating Costs (recurring costs -base budget)

Supplies/Expenses: \$3000 + \$1264 (NCATE/AACTE Annual Fee) = \$4264
Travel: for one faculty to attend NCATE/AACTE Conference = \$1,500
Total Recurring Costs=\$7,764

GRAND TOTAL COSTS: = \$219,987.00

III. REVENUE SOURCES

Reallocation of existing funds (One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + Fringe Benefits \$7750) = **\$32,750.00**

New Tuition:

52 students taking 4 courses per year = 208 headcount
208 x 3 credit/hours = 624 credit/hours
624 credit/hours x \$130 /semester (\$260) = **\$162,240.00**
Student Fees
\$102 Student Institutional Fees + \$50 Technology Fee = \$152
52 students take course each semester = 104 fees of \$152 = **\$15,808**

Other (Funds from new enrollment increases for the University) = **\$9,189.00**

GRAND TOTAL REVENUES: \$219,987.00

	First Year FY	Second Year FY	Third Year FY	Fourth Year FY
I. ENROLLMENT PROJECTIONS				
Student Majors				
Shifted from other programs				
New to the institution	15	20	20	20
Continuing Majors	0	15	31	43
Attrition	0	-4	-8	-11
Transfers				
Total Majors	15	31	43	52
Course Sections Satisfying Program Requirements				
Previously existing	0	4	8	12
New	4	4	4	4
Total Program Course Sections	4	8	12	16
Credit Hours Generated by Those Courses				
Existing enrollments	0	88	828	1536
New enrollments	90	160	720	960
Total Credit Hours	90	744	1548	2496
DEGREES AWARDED (Graduation Rate= 35%)	0	0	10	14
II. EXPENDITURES				
	EFT Dollars	EFT Dollars	EFT Dollars	EFT Dollars
Personnel – reassigned or existing positions				
Faculty (One Existing Faculty @ \$50,000) 50% of Time = \$25,000	\$25,000.00	25,000.00	\$25,000.00	\$25,000.00
Part-time Faculty	0	0	0	0
Graduate Assistants	0	0	0	0
Administrators	0	0	0	0
Support Staff	0	0	0	0
Fringe Benefits	7,750.00	0	7,750.00	7,750.00
Other Personnel Costs	0	0	0	0
Total Existing Personnel Costs	\$32,750.00	\$32,750 0	\$32,750.00	\$32,750.00
EXPENDITURES (Continued)				
Personnel – new positions				
Faculty (Average Full-time Faculty Salary= \$45,000)	\$45000.00	45,000.00	\$90,000.00	\$90,000.00
Part-time Faculty	0	0	0	0
Graduate Assistants	0	0	0	0
Administrators	25,334.00	25,334.00	25,334.00	25,334.00
Support Staff	8,334.00	8,334.00	8,334.00	8,334.00
Fringe Benefits	28,521.00	28521.00	42,471.00	42,471.00
Other personnel costs (Assessment Coordinator)	13,334.00	13,334.00	13,334.00	13,334.00
Total New Personnel Costs	\$120,523.00	\$120,523.00	\$179,473.00	\$179,473.00

Start-up Costs (one-time expenses)				
Library/learning resources	0	0	0	0
Equipment	0	0	0	0
Other (NCATE Program Evaluation Visit Fee)	1350.00	0	0	0
Assessment Software	5000.00	0	0	0
Media/Print Resources to establish a Curriculum Media Center (CMC) in the Library	6667.00			
Physical Facilities: construction or major renovation	0	0	0	0
Total One-time Costs	\$13,017.00	0	0	0
	0	0	0	0
Operating Costs (recurring costs – base budget)				
Supplies/Expenses	4,264.00	4264	4264	4264
Travel	1,500.00	1500	1500	1500
Equipment	0	0	0	0
Library/learning resources	2000.00	2000	2000	2000
Other	0	0	0	0
Total Recurring Costs	\$7,764.00	\$7,764.00	\$7,764.00	\$7,764.00
GRAND TOTAL COSTS	\$174,054.00	\$161,037.00	\$219,987.00	\$219,987.00
III. REVENUE SOURCES				
Source of Funds				
Reallocation of existing funds (One Existing Faculty @ \$50,000) 50% of Time = \$25,000 + Fringe Benefits \$7750)	\$32,750.00	\$32,750.00	\$32,750.00	\$32,750.00
New student workload			0	0
New Tuition (See narrative note)	\$46,800.00	\$ 96,720.00	\$134,160.00	\$162,240.00
Federal funds	0	0	0	0
Other grants	0	0	0	0
Student fees (Institutional Fee \$102.00 + Technology Fee \$50) = \$152.00	4,660.00	9,424.00	13,072.00	15808.00
Other (Funds from new enrollment increases)	89,844.00	22,143.00	40,005.00	9,189.00
New state allocation requested for budget hearing	0	0	0	0
	0	0	0	0
Nature of Funds	0	0	0	0
Base budget	0	0	0	0
One-time funds	0	0	0	0
	0	0	0	0
GRAND TOTAL REVENUES	\$174,054.00	\$161,037.00	\$219,987.00	\$219,987.00

Facilities Information for New Academic Programs

Proposed Location for the Program: College of Sciences and Technology

Floor area required for the program (gross and net square feet): 1350 square feet; 1050 s.f. for one classroom, 300 s.f. for two faculty offices.

Type of spaces required:

■ Number of classrooms	<u>1</u>
■ Number of labs	<u>0</u>
■ Number of offices	<u>2</u>
■ Other spaces	<u> </u>

Place an "X" beside the appropriate selection:

 X Existing facility will be used as is (area square footage):

 Existing facility will require modification (area square footage):

Projected renovation cost:

Estimated relocation cost:

Total funding required:

Source of Funding:

 Construction of new facilities will be required (area square footage):

Estimated construction cost:

Estimated total project cost:

Proposed source of funding:

List any infrastructure impacts that the program will have (i.e., parking, power, HVAC, etc.) and indicated estimated cost and source of funding.

Other comments:

Note: A system office Facilities Project Manager (through the Office of Facilities) may contact you with further questions separate from the review of the new academic program.

Appendixes

Appendix A: Course Description and Prerequisites

Appendix B: Accreditation Standards

Appendix C: Table of Faculty Directly Involved with Program

Appendix D: Endorsement Documents

Appendix A: Course Descriptions

Course Number	Course Name	Course Description	Credit	Prerequisites	Existing or New
AFRS 1501	African American History	A survey and understanding of the cultural, economic, political, psychological and social development of African Americans and an analysis of their contemporary status.	2		Existing
AREA F (Elective)	Choose a approved math/science or computer course	Area F – Elective	3		Existing
BIED 4416	Teaching of Biology (6-12)	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. Includes a secondary school field experience in mathematics teaching and seminars. Emphasizes those practices suggested by research in mathematics education and encouraged by the NSTA . Proof of professional liability insurance is required prior to receiving a school placement.	3	Prerequisite: EDUC 2130, EDUC3030, and admission to Teacher Education.	New
BIED 4417	Teaching Biology Practicum	Practicum component of BIED 4416	3	Taking concurrently with BIED 4416	New
BIOL 1107	Principles of Biology I	Introduction to broad themes in biology, with emphasis on chemistry and origin and evolution of life, metabolic diversity and regulation, cell structure and function, classical genetics, macromolecular synthesis (including proteins), recombinant DNA, and biotechnology.	3	Prerequisites: CHEM 1211 (For biology, marine science and environmental science majors)	Existing

BIOL 1107L	Principles of Biology I Lab	Lab taken concurrently with BIOL 1107.	1		Existing
BIOL 1108	Principles of Biology II	Introduction to organismal and developmental biology; structure and physiology of plants and animals relative to their evolution and adaptation to different environments, classification, comparative and diverse adaptations in the biological kingdoms, neural and endocrine control processes, and immunology.	3	Prerequisites: CHEM 1212 and BIOL 1107	Existing
BIOL 1108L	Principles of Biology II Lab	Lab taken concurrently with BIOL 1108.	1		Existing
BIOL 3101	Botany	An introduction to general principles of plant life with special emphasis given to cellular organization, anatomy, physiology, inheritance, taxonomy, and modern aspects of plant science, such as plant biotechnology and genetic engineering.	3	Prerequisite: BIOL 1108	Existing
BIOL 3101L	Botany Lab	Lab taken concurrently with BIOL 3101.	1		Existing
BIOL 3211	Zoology	A study of major phyla of invertebrate animals, morphology, physiology, life histories, and taxonomic relationships of selected representatives of groups and an intense survey of the morphology, taxonomy, physiology,	3	Prerequisite: BIOL 1108	Existing

		behavior, and ecology of the chordates, with attention given to basic principles and theories.			
BIOL 3211L	Zoology Lab	Lab taken concurrently with BIOL 3211.	1		
BIOL 3301	Genetics	The principles of genetic analysis and the nature of genes. Discussion of the chromosomal and the molecular basis of transmission, replication, mutation, and expression of heritable characteristics. Includes modern developments in genetics, such as the physical nature and fine structure of the gene, its relationship to proteins, protein synthesis, growth, and differentiation and regulation of gene function.	3	Prerequisite: BIOL 1108	Existing
BIOL 3301L	Genetics Lab	Lab taken concurrently with BIOL 3301.	1		Existing
BIOL 3321	Microbiology	Introduction to origin, diversity, anatomy, and physiology of microorganisms; principles of immunology; environmental and applied microbiology.	3	Prerequisite: BIOL 1108	Existing
BIOL Elective	Biology Approved Elective		3		Existing
BIOL 3321L	Microbiology Lab	Lab taken concurrently with BIOL 3321.	1		Existing
BIOL 3621	Urban Health & Hygiene	An introduction to a variety of environmental and occupational health hazards of an urbanized society. Covers biological and health effects of environmental pollutants, disease	3	Prerequisite: Junior standing	Existing

		vectors, food and housing sanitation, and principles of industrial hygiene. Social and psychological stresses environmental health planning and management are also discussed.			
BIOL 3801	Physiology	A study of vertebrate systemic physiological processes. Topics covered are bioenergetics, temperature regulation, endocrine control mechanisms; digestive, urinary, cardiac, respiratory, excretory, and reproductive systems; membranes; and neurophysiology.	3	Prerequisite: BIOL 3201	Existing
BIOL 3801L	Physiology Lab	Lab may be taken concurrently with BIOL 3801.	1		Existing
BIOL 4270	Mycology	Ecology, physiology systematics, development of microfungi and organisms of general, industrial, and economic importance.	3		Existing
BIOL 4270L	Mycology Lab	Lab taken concurrently with BIOL 4270.	1		Existing
CHEM 1211	Principles of Chemistry I	First course in a two-semester sequence covering the fundamental principles and applications of chemistry. This course covers composition of matter, stoichiometry, periodic relations, and nomenclature. (3-0-3)	3	Prerequisite: All students are required to take a Chemistry Placement Test	
CHEM 1211L	Principles of Chemistry I Lab	Laboratory exercises to supplement the lecture material of CHEM 1211	1		
CHEM 1212	Principles of Chemistry II	Second course in a two-semester sequence covering the fundamental principles and applications of chemistry.	3	Prerequisite: CHEM 1211	

CHEM 1212L	Principles of Chemistry II	Laboratory exercises to supplement the lecture material of CHEM 1212	1		
EDUC 2110	Investigation of Critical/Contemporary Issues	This course engages potential education candidates in observations and interactions in schools, and analyses of critical and contemporary educational issues. Candidates investigate issues influencing the social and political contexts of educational settings in Georgia and the United States. Candidates actively examine the teaching profession from multiple vantage points both within and outside the school. Against this backdrop, candidates reflect on and interpret the meaning of education and schooling in a diverse culture. Includes the use of current technologies which are directly related to effective teaching and 15 hours of observation and participation in an appropriate school setting elementary/early childhood, middle grades, secondary or P-12 environments. Verification of professional liability insurance and a criminal background check are required prior to receiving a school placement.	3		New
EDUC 2120	Socio-cultural Influences on Teaching and Learning	This course introduces teachers to fundamental knowledge of culture essential for effective teaching in increasingly diverse classrooms. Designed as a foundation course for subsequent courses focused on the preparation of culturally responsive teachers, this course examines 1) the nature and function of culture; 2) the development of individual and group cultural identity; 3) definition and implications of diversity. Includes 15 hours of observation and participation in an appropriate school setting- elementary/early childhood, middle grades, secondary or P-12 environments. Verification of professional liability insurance and a criminal background check are required prior to receiving a school placement.	3		New

EDUC 2130	Exploring Teaching & Learning	This course explores key aspects of learning and teaching through examining your own learning processes and those of others, with the goal of applying your knowledge to enhance the learning of all students in a variety of educational settings and contexts. Includes 10 of observation and interaction with a learner in a naturalistic setting. Current use of technology will be integrated as communication and instructional tools. Verification of professional liability insurance is required.	3	Prerequisite: EDUC 2110	New
EDUC 3030	Exploring-Exceptional Learner	Prepares candidates to work collaboratively with families and school personnel to have a positive impact on the educational, social and behavioral development of all students, including those with a full range of disabilities, in a diverse society. The course focuses on knowledge of legislative mandates for serving exceptional students, characteristics of exceptionality, best practice in facilitating teaching and learning, and accountability through assessment of outcomes. This course requires an observational experience in an assigned school placement. Verification of professional liability insurance is required prior to placement in the field experience. Fulfills Georgia HB 671 requirement.	3	Prerequisite: Admission to Teacher Education	New
EDUC 3200	Curriculum and Assessment	An introduction to constructing, evaluating, and interpreting tests; descriptive and inferential statistics; state competency testing; and guidelines for state program evaluations.	3	Prerequisite: Admission to Teacher Education	New
EDUC4475	Student Teaching & Seminar	Full-time teaching experience in mathematics under the supervision of a public school cooperating teacher and a specialist in mathematics education. Includes a regularly scheduled seminar. Proof of professional liability insurance is required prior to receiving a school placement.	12	Prerequisite: Admitted to Teacher Education; BIED 4416/4417	New

ENGL 1101	Composition I	A course designed to develop college-level reading and writing skills. Focuses on vocabulary, analysis of readings, grammar, mechanics, and the steps of the writing process. Introduces documented research and various patterns of organization and development. Minimum passing grade is "C."	3	Prerequisites: Regular admission or exit from ENGL 0099 or ENG 098 and READ 0099 or RDG 098	Existing
ENGL 1102	Composition II	A course designed to further develop college-level reading and writing skills. Includes analysis of literary texts and specialized application of the research and writing skills learned in ENGL 1101. Minimum passing grade is "C."	3	Prerequisite: ENGL 1101	Existing
FRES 1101	Freshman Experience I	Additional University Requirements	1		
FRES 1102	Freshman Experience II	Additional University Requirements	1		
HEDU (Electives)	Health Electives	Additional University Requirements	3		
HIST 2111	U.S. History to the Post-Civil War Period	An introductory survey of the formative years of the history of the United States.	3		Existing
HUMN 1201	Critical Thinking & Communication	This course is designed to assist in the development of skills in critical reading, critical thinking, and interpersonal communication in the context of contemporary issues. This course focuses not only on improving reading comprehension and analytical skills, but also on identifying problems with logic found in one's own communication and in that of others, on developing an awareness of techniques commonly used in advertising and political language, on understanding principles of interpersonal communication and public	3		Existing

		speaking, and on organizing, developing, and presenting audience-centered material.			
HUMN 2011	Humanities	Designed as a multicultural, cross-disciplinary course to enable students to discover, interpret, and assess critically the intellectual and aesthetic expressions of cultures of America, Europe, Asia, and Africa	3	Prerequisite: ENGL 1102 or ENG 109	Existing
BIOL 2515K	Human A&P	Gross anatomy, histology and physiology of human organ systems (Not for biology majors; Non-majors course intended for health profession students).	3	Prerequisite: BIOL 1103 or BIOL 1104 or CHEM 1211 or consent of instructor	Existing
BIOL 2516K	Human A&P	A comprehensive study of the structure, location and functions of the organs and systems of the human body. Gross anatomy, histology, micro and macroscopic study of organs especially nervous, musculo-skeletal, endocrine and reproductive systems.	4	Prerequisite: BIOL 2515K	Existing
ITED	Instructional Technology (Computers for Teachers)	The computer and its educational applications for preservice teachers. Computer-based education in the areas of instruction, text and data processing, multimedia, and telecommunications. Emphasis on integrating computer tools into class instruction.	3		New
MATH 1113	Pre-Calculus	A course designed to prepare students for a successful study of calculus. Topics include functions and their graphs, inverse functions, exponential and logarithmic functions, trigonometric functions and their inverses,	3	Prerequisite: MATH 1111 or a minimum score of 475 on the SAT-MAT	Existing

		analytic trigonometry, application of trigonometric functions, fundamentals of analytic geometry, and polar coordinates			
MATH 2101	Calculus I	An integrated approach to differential calculus and an introduction to integral calculus. Topics include functions, graphs, the derivative, applications of the derivative, maxima and minima, velocity and acceleration, rates of change, antidifferentiation, the fundamental theorem of calculus, and basic integration techniques.	4	<i>Prerequisite:</i> MATH 1113	Existing
POLS 1101	American Government	A comprehensive study of the origins, principles, structures, processes, and practices of American government, emphasis on various perspectives on democratic theory and practice of governmental institutions	3		Existing
POLS 2401	Global Issues	An interdisciplinary approach to selected topics in contemporary societies, using the sociological, economic, geographic, and political perspectives; an opportunity to equip students to understand and meet the challenges of a rapidly changing world community.	3		Existing
PSYC 2102	Human Growth and Development	This introductory survey course explores the scientific study of human nature, behavior, and cognitive processes. The major areas of psychological study will be reviewed including history, biology, memory, learning, development, personality, abnormal and social psychology. Emphasis will be placed on applying psychological principles and data to life experiences.	3		Existing
RPHS 2101	Introduction to Philosophy	The basic survey course of the field of philosophy. An introduction to logic, ethics, ontology, and religion, etc., as a basis for	3		Existing

		additional study in philosophy. Required for minors.			
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Appendix B: Accreditation Standards

GEORGIA STANDARDS FOR THE APPROVAL OF PROFESSIONAL EDUCATION UNITS AND EDUCATOR PREPARATION PROGRAMS

(Effective 9/1/08)

The Professional Standards Commission has adapted the Professional Standards for the Accreditation of Schools, Colleges, and Departments of Education published by the National Council for the Accreditation of Teacher Education (NCATE) for use in the Georgia professional education unit and preparation program approval process. The adapted standards include all six of the NCATE standards, as well as two additional standards that address Georgia-specific requirements. The adapted standards, the Georgia Standards for the Approval of Professional Education Units and Preparation Programs (Effective 09/1/08) apply to all professional education units and preparation programs in Georgia.

I. CANDIDATE PERFORMANCE

Standard 1: Candidate Knowledge, Skills, and Dispositions

Candidates preparing to work in schools as teachers or other school professionals know and demonstrate the content knowledge, pedagogical content knowledge and skills, pedagogical and professional knowledge and skills and professional dispositions necessary to help all students learn. Assessments indicate that candidates meet professional, state, and institution/agency standards.

Standard 2: Assessment System and Unit Evaluation

The professional education unit has an assessment system that collects and analyzes data on applicant qualifications, candidate and graduate performance, and professional education unit operations to evaluate and improve the performance of candidates, the professional education unit and its preparation programs.

II. PROFESSIONAL EDUCATION UNIT CAPACITY

Standard 3: Field Experiences and Clinical Practice

The professional education unit and its school partners design, implement, and evaluate field experiences and clinical practice so that teacher candidates and other school professionals develop and demonstrate the knowledge, skills, and professional dispositions necessary to help all students learn.

Standard 4: Diversity

The professional education unit designs, implements, and evaluates curriculum and provides experiences for candidates to acquire and demonstrate the knowledge, skills, and professional dispositions necessary to help all students learn. Assessments indicate that candidates can demonstrate and apply proficiencies related to diversity. Experiences provided for candidates include working with diverse populations, including higher education and P-12 school faculty, candidates, and students in P-12 schools.

Standard 5: Faculty Qualifications, Performance, and Development

Faculty are qualified and model best professional practices in scholarship, service, and teaching, including the assessment of their own effectiveness as related to candidate performance; they also collaborate with colleagues in the disciplines and schools. The professional education unit systematically evaluates faculty performance and facilitates professional development.

Standard 6: Professional Education Unit Governance and Resources

The professional education unit has the leadership, authority, budget, personnel, facilities, and resources, including information technology resources, for the preparation of candidates to meet professional, state, and institution/agency standards.

III. GEORGIA SPECIFIC REQUIREMENTS FOR PROFESSIONAL EDUCATION UNITS AND PREPARATION PROGRAMS

Standard 7: Requirements and Standards Specified in Rule 505-3-.01

The professional education unit ensures that all preparation programs meet all applicable requirements of Rule **505-3-.01, REQUIREMENTS AND STANDARDS FOR APPROVING PROFESSIONAL EDUCATION UNITS AND EDUCATOR PREPARATION PROGRAMS**, Education Personnel Preparation Rules and Procedures.

Elements of Standard 7

7a. ADMISSIONS REQUIREMENTS

Candidates admitted to initial preparation programs at the baccalaureate level have a minimum grade point average of 2.5 on a 4.0 scale. Candidates admitted into initial preparation programs at the post baccalaureate level have attained appropriate depth and breadth in both general and content studies, with a minimum of a bachelor's degree from a PSC accepted accredited institution. (A 2.5 is not required for entry into a post baccalaureate program.)

7b. READING METHODS

Candidates in programs in Early Childhood, Middle Grades, and the special education fields of General Curriculum, Adapted Curriculum, and General Curriculum/Early Childhood Education (P-5) are required to demonstrate competence in the knowledge of methods of teaching reading.

7c. IDENTIFICATION AND EDUCATION OF CHILDREN WITH SPECIAL NEEDS

Candidates in all teaching fields, the field of educational leadership, and/or the service fields of Media Specialist and School Counseling have completed five or more quarter hours or three or more semester hours, or the equivalent, in the identification and education of children who have special educational needs or equivalent, through a Georgia-approved professional learning program.

7d. USE, APPLICATION, AND INTEGRATION OF INSTRUCTIONAL TECHNOLOGY

Candidates have demonstrated proficiency in computer and other technology application and skills and satisfactory proficiency in integrating instructional technology into student learning. This requirement may be met through content embedded in courses and experiences throughout the preparation program or by attaining an acceptable score on a PSC-approved computer skill competency assessment.

7e. GEORGIA P-12 CURRICULUM

Candidates are prepared to implement the appropriate sections of any Georgia mandated curriculum (e.g. Georgia Performance Standards, GPS) in each relevant content area.

7f. PROFESSIONAL ETHICAL STANDARDS AND REQUIREMENTS FOR CERTIFICATION AND EMPLOYMENT

Candidates are provided with information about professional ethical standards, the Georgia Code of Ethics for Educators, criminal background check, and clearance for certification and employment.

Georgia Standards for the Approval Professional Education Units Page 32 of 33 and Educator Preparation Programs (Effective 9/1/08)

NSTA Standards for Science Teacher Preparation

National Science Teachers Association
Revised 2003

Standard 1: Content

Teachers of science understand and can articulate the knowledge and practices of contemporary science. They can interrelate and interpret important concepts, ideas, and applications in their fields of licensure; and can conduct scientific investigations. To show that they are prepared in content, teachers of science must demonstrate that they:

- a. Understand and can successfully convey to students the major concepts, principles, theories, laws, and interrelationships of their fields of licensure and supporting fields as recommended by the National Science Teachers Association.
- b. Understand and can successfully convey to students the unifying concepts of science delineated by the National Science Education Standards.
- c. Understand and can successfully convey to students important personal and technological applications of science in their fields of licensure.

- d. Understand research and can successfully design, conduct, report and evaluate investigations in science.
- e. Understand and can successfully use mathematics to process and report data, and solve problems, in their field(s) of licensure.

Standard 2: Nature of Science

Teachers of science engage students effectively in studies of the history, philosophy, and practice of science. They enable students to distinguish science from nonscience, understand the evolution and practice of science as a human endeavor, and critically analyze assertions made in the name of science. To show they are prepared to teach the nature of science, teachers of science must demonstrate that they:

- a. Understand the historical and cultural development of science and the evolution of knowledge in their discipline.
- b. Understand the philosophical tenets, assumptions, goals, and values that distinguish science from technology and from other ways of knowing the world.
- c. Engage students successfully in studies of the nature of science including, when possible, the critical analysis of false or doubtful assertions made in the name of science.

Standard 3: Inquiry

Teachers of science engage students both in studies of various methods of scientific inquiry and in active learning through scientific inquiry. They encourage students, individually and collaboratively, to observe, ask questions, design inquiries, and collect and interpret data in order to develop concepts and relationships from empirical experiences. To show that they are prepared to teach through inquiry, teachers of science must demonstrate that they:

- a. Understand the processes, tenets, and assumptions of multiple methods of inquiry leading to scientific knowledge.
- b. Engage students successfully in developmentally appropriate inquiries that require them to develop concepts and relationships from their observations, data, and inferences in a scientific manner.

Standard 4: Issues

Teachers of science recognize that informed citizens must be prepared to make decisions and take action on contemporary science- and technology-related issues of interest to the general society. They require students to conduct inquiries into the factual basis of such issues and to assess possible actions and outcomes based upon their goals and values. To show that they are prepared to engage students in studies of issues related to science, teachers of science must demonstrate that they:

- a. Understand socially important issues related to science and technology in their field of licensure, as well as processes used to analyze and make decisions on such issues.

- b. Engage students successfully in the analysis of problems, including considerations of risks, costs, and benefits of alternative solutions; relating these to the knowledge, goals and values of the students.

Standard 5: General Skills of Teaching

Teachers of science create a community of diverse learners who construct meaning from their science experiences and possess a disposition for further exploration and learning. They use, and can justify, a variety of classroom arrangements, groupings, actions, strategies, and methodologies. To show that they are prepared to create a community of diverse learners, teachers of science must demonstrate that they:

- a. Vary their teaching actions, strategies, and methods to promote the development of multiple student skills and levels of understanding.
- b. Successfully promote the learning of science by students with different abilities, needs, interests, and backgrounds.
- c. Successfully organize and engage students in collaborative learning using different student group learning strategies.
- d. Successfully use technological tools, including but not limited to computer technology, to access resources, collect and process data, and facilitate the learning of science.
- e. Understand and build effectively upon the prior beliefs, knowledge, experiences, and interests of students.
- f. Create and maintain a psychologically and socially safe and supportive learning environment.

Standard 6: Curriculum

Teachers of science plan and implement an active, coherent, and effective curriculum that is consistent with the goals and recommendations of the National Science Education Standards. They begin with the end in mind and effectively incorporate contemporary practices and resources into their planning and teaching. To show that they are prepared to plan and implement an effective science curriculum, teachers of science must demonstrate that they:

- a. Understand the curricular recommendations of the National Science Education Standards, and can identify, access, and/or create resources and activities for science education that are consistent with the standards.
- b. Plan and implement internally consistent units of study that address the diverse goals of the National Science Education Standards and the needs and abilities of students.

Standards 7: Science in the Community

Teachers of science relate their discipline to their local and regional communities, involving stakeholders and using the individual, institutional, and natural resources of the community in their teaching. They actively engage students in science-related studies or activities related to locally important issues. To show that they are prepared to relate science to the community, teachers of science must demonstrate that they:

- a. Identify ways to relate science to the community, involve stakeholders, and use community resources to promote the learning of science.
- b. Involve students successfully in activities that relate science to resources and stakeholders in the community or to the resolution of issues important to the community.

Standards 8: Assessment

Teachers of science construct and use effective assessment strategies to determine the backgrounds and achievements of learners and facilitate their intellectual, social, and personal development. They assess students fairly and equitably, and require that students engage in ongoing self-assessment. To show that they are prepared to use assessment effectively, teachers of science must demonstrate that they:

- a. Use multiple assessment tools and strategies to achieve important goals for instruction that are aligned with methods of instruction and the needs of students.
- b. Use the results of multiple assessments to guide and modify instruction, the classroom environment, or the assessment process.
- c. Use the results of assessments as vehicles for students to analyze their own learning, engaging students in reflective self-analysis of their own work.

Standard 9: Safety and Welfare

Teachers of science organize safe and effective learning environments that promote the success of students and the welfare of all living things. They require and promote knowledge and respect for safety, and oversee the welfare of all living things used in the classroom or found in the field. To show that they are prepared, teachers of science must demonstrate that they:

- a. Understand the legal and ethical responsibilities of science teachers for the welfare of their students, the proper treatment of animals, and the maintenance and disposal of materials.
- b. Know and practice safe and proper techniques for the preparation, storage, dispensing, supervision, and disposal of all materials used in science instruction.
- c. Know and follow emergency procedures, maintain safety equipment, and ensure safety procedures appropriate for the activities and the abilities of students.
- d. Treat all living organisms used in the classroom or found in the field in a safe, humane, and ethical manner and respect legal restrictions on their collection, keeping, and use.

Standard 10: Professional Growth

Teachers of science strive continuously to grow and change, personally and professionally, to meet the diverse needs of their students, school, community, and profession. They have a desire and disposition for growth and betterment. To show their disposition for growth, teachers of science must demonstrate that they:

- a. Engage actively and continuously in opportunities for professional learning and leadership that reach beyond minimum job requirements.
- b. Reflect constantly upon their teaching and identify ways and means through which they may grow professionally.
- c. Use information from students, supervisors, colleagues and others to improve their teaching and facilitate their professional growth.
- d. Interact effectively with colleagues, parents, and students; mentor new colleagues; and foster positive relationships with the community.

Appendix C: Faculty Directly Involved With the New Degree Program

Faculty Name	Rank	Highest Degree	Degrees Earned	Academic Discipline	Current Workload
Jonathan Lambright	Associate Professor	Ph.D. of Philosophy Mechanical Engineering	B.S. Mechanical Engineering, M.S. Mechanical Engineering	Civil/Mechanical Engineering	12 hours
Asad Yousuf	Professor	EdD. Occupational Studies	B.S. Electronics Engineering M.S. Electrical Engineering	Electronics Engineering Technology	12 hours
Hetty B. Jones	Professor	Ph.D. Zoology	B.S. Biology, Secondary Education M. Ed. Math and Science	General Biology	12 hours
Johnny Johnson	Assistant Professor	Ph.D. of Philosophy Physiology & Biophysics Plan	B.S. Biology	Biology	12 hours
Sujin Kim	Assistant Professor	Ph.D. Applied Mathematics	B.S. Mathematics M.S. Mathematics	Mathematics	12 hours

Current faculty load and recently tenured faculty reduces the need for any increase in workload for existing faculty and will allow for additional required and elective courses to be offered in the new degree program,. As the program grows in the next several years, it is anticipated that the need will arise for additional part-time and full-time faculty.

Expected responsibilities in the program: Existing full-time tenured and tenure-track faculty will provide instructions in the core content for the program. All current faculty members are qualified to teach related content except teaching methods and education foundation courses required of the major.

Appendix D: Endorsement Documents



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OFFICE OF ACADEMIC AFFAIRS

March 26, 2010

Dr. Earl G. Yarbrough, Sr., President
Savannah State University
3219 College Street
Hill Hall, Office of the President
Savannah, GA 31404

Dear President Yarbrough:

It is with great humility that I write this letter in support of establishing a Teacher Education Program at Savannah State University. As a former teacher educator, I have a full appreciation for the teaching profession. The opportunity to join forces with other institutions in the University System of Georgia to prepare teachers will play a major role in creating a more educated Georgia. This I consider a privilege. There continues to be a need for a talented teacher workforce prepared to educate our children. I view teaching as the most important profession of all. As a major force in preparing teachers, Savannah State University will make a greater impact on the Savannah-Chatham County area. These teachers will add value to the lives of the students they touch. It is crucial that our teachers are prepared with the skills, attitudes and knowledge desired to prepare our children to be society ready and able to compete with the great minds in our global, technological and ever changing world.

I support this initiative and will work diligently to provide and seek the resources necessary to offer a quality program that is NCATE accredited and PSC approved. The approval of Teacher Education at Savannah State University will do much to aid in meeting the teaching needs in Georgia and it will open up the door for increased career opportunities for our students. Contact me if I can be of further assistance. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Mary C. Wyatt".

Mary C. Wyatt, P.D., CFCS
Vice President for Academic Affairs



DEPARTMENT OF SOCIAL AND BEHAVIORAL SCIENCES

University System of Georgia
3219 College Street
Box 20389
Savannah, GA 31404
P: (912) 356 - 2151
F: (912) 692 - 4558

March 12, 2010

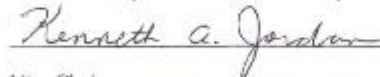
Dr. Mary Wyatt
Vice President for Academic Affairs
Savannah State University
Savannah, GA 31404

Dear Dr. Wyatt:

The Executive Committee of The Faculty Senate wishes to express its full support of the proposed degree programs in educations in the areas of Technology, English and History. It is our conviction that the proposed degree program is long overdue. The degree program will close the gap between the minority student and minority teacher ratio in the Savannah Chatham County School System, as well as surrounding areas in the low country of Southeastern Georgia, including Effingham County and coastal South Carolina.

The Executive Committee of the Faculty Senate enjoins the Savannah State University National Alumni Association, Faculty, Staff and Students in bringing this innovative curriculum based educational program to fruition. This will allow Savannah State University to play a pivotal role and to have a significant impact in adhering to the Chancellor's initiative of an educated Georgia.

I implore your support in the endorsement of this cutting edge program. We, along with the university and community look forward to the implementation of this instructional strategy with great anticipation.



Vice Chair



Parliamentarian

Annette K. Brock
3114 Whatley Avenue
Savannah, Georgia 31404
(912) 354-4650 brockotis@aol.com

March 12, 2010

Dr. Mary C. Wyatt
Vice President for Academic Affairs
Savannah State University
3219 College Street
Suite 221
Box 30411
Savannah, Georgia 31404

Dear Dr. Wyatt:

The opportunity for Savannah State University to propose and hopefully implement a Teacher Education Program is not only fortuitous for the university but for the immediate City of Savannah and State of Georgia. It also addresses the larger national issue of the dearth of teachers, especially minority teachers. Never has the need for teachers who are fully prepared to deliver integrative instruction, which addresses the multifaceted issues of a global, technological world and changing social paradigms, been so critical. The attainment of post secondary education by more of the nation's citizens will, in my view, be more transformative than any other single initiative in addressing societal ills. I am strongly supportive of this effort.

The recent passage by Chatham County of the Educational Local Option Sales Tax (E-SPLOST) with ongoing implementation is producing the construction of new schools and redrawing school district lines to accommodate an increase in the school age population in the county. This excellent opportunity must be met by concomitant educational initiatives to assure that a high quality education will be available. Savannah State is to be commended for preparing the proposal to provide Teacher Preparation. It augurs well for our community and beyond.

As an alumnus of Savannah State University's (College) teacher education program, I developed a lifelong appreciation for the value a teacher adds to the strong growth and development of youth. To this day I believe teaching to be a noble profession. I not only support Savannah State University's proposal for Teacher Preparation, I support it unequivocally and urge its approval.

Sincerely,


Annette K. Brock, Ph.D.
Professor Emeritus
Savannah State University



Savannah-Chatham County Public School System
208 Bull Street / Savannah, Georgia 31401 / 912.201.5600

March 12, 2010

Dr. Mary C. Wyatt, Ph.D.
Vice President for Academic Affairs
Savannah State University
3219 College Street, Suite 221
Savannah, GA 31404

RE: Savannah State University Teacher Education Program Proposal

Dear Dr. Wyatt:

On behalf of the Savannah Chatham County Public School System (SCCPSS), I wish to express my full support for Savannah State University's (SSU) proposal for the Teacher Education Program. The Teacher Education Program will enable SSU to train students through innovative and alternative methods. This program will recruit and develop pipeline programs and inform students of the benefits and opportunities for professional advancement through teaching careers.

The Teacher Education Program will develop enrichment and teaching/pedagogy training for its students in order to develop and strengthen their teaching competencies, including hands-on, in-the-classroom teaching experiences. This program will also provide immediate teaching employment for qualified BA/BS graduates.

We are excited about this program which will directly meet our needs and will provide incentives and support for more SCCPSS students.

We hope the Teacher Education Program proposal will meet with your favorable consideration. If you have any questions, please do not hesitate to contact me.

Thank you.

Sincerely,

Thomas B. Lockamy, Jr., Ed.D.
Superintendent of Schools

IBL/cw

Mission - To ignite a passion for learning and teaching at high levels
Vision - From school to the world, ALL students prepared for productive futures
"AN EQUAL OPPORTUNITY EMPLOYER"

Virginia A. Edwards
15 Purple Martin Lane
Savannah, Georgia 31419
virginiaedw@msu.com
(912) 925-0068

March 12, 2010

Dr. Mary C. Wyatt, Ph.D., CFCS
Vice President for Academic Affairs
Savannah State University
3219 College Street
Suite 221
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Savannah, Georgia 31404

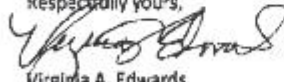
Dear Dr. Wyatt:

It is my very great pleasure to offer this letter in support of the reinstatement of the Teacher Education Program at Savannah State University. As a former teacher, school administrator, district director of middle and high schools and superintendent of schools, I observed and experienced situations that clearly indicate the need to restore the school of teacher education at Savannah State University. I believe Savannah State can resume its historical place in this community as one of the premier schools for teacher preparation and in particular serve as a definitive road map to increasing a well qualified core of minority teachers.

I strongly recommend the restoration of the program as well as the necessary funding to ensure full implementation and programmatic sustenance. The approval of this request is critical given the current demand to provide qualified teachers to serve the children in school districts across the nation.

I fully support without reservation your efforts to restore with full funding the Teacher Education Program at Savannah State University.

Respectfully yours,



Virginia A. Edwards



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OFFICE OF THE DEAN
COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

March 10, 2010

Dr. Mary C. Wyatt, Ph.D., CFCS
Vice President for Academic Affairs
Savannah State University
3219 College Street, Suite 221, Box 20411
Savannah, GA 31404

Dear Dr. Wyatt

American education is this nation's greatest strength and most powerful force for advancing the common good. A major challenge in transforming our educational system lies in erasing disparities in educational attainment among low-income students and underrepresented minorities. Just 26 percent of African Americans, 18 percent of Latino and Hispanic Americans, and 24 percent of Native Americans and Pacific Islanders have at least an associate degree. To compete in a demanding, global, knowledge-based economy, and to succeed we must provide educational training beyond high school and associate degree to a significantly greater proportion of Americans than ever before. This demand increases the need for teachers. The National Center for Educational Statistics predicted the need for public school teachers needed by 2008-2009 ranges from 1.7 million to 2.7 million.

The need for teachers in Georgia is well documented, and is addressed by several USG initiatives, most notably, the 20,000 by 2020 Initiative to meet 80% of the state's need for K-12 teachers by the year 2020. Savannah State University is strongly committed to achieving the 20,000 by 2020 Initiative. On behalf of the College of Liberal Arts and Social Sciences, I am pleased to write in support of the proposed Teacher Education Program at Savannah State University. This proposed program will meet national, state and local needs to increase the number of qualified teachers in the state of Georgia and beyond.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jane McBride Gates".

Jane McBride Gates, Ph.D.
Dean and Professor

A unit of the University System of Georgia - www.sas.uconn.edu/officeoftheDean/

Meeting Agendas and Minutes

Agenda

New Programs and Curriculum Committee
March 25, 2010

Call Meeting to Order

Review minutes from March 11, 2010

Request for new agenda items

Teacher Education Program ✕

COST

1. Bachelor of Science in Marine Science (program change)
2. Bachelor of Environmental Science (program change)
3. Introduction to Genomics (new course)
4. Molecular Evolution (new course)
5. FYE (Freshman Year Experience) (new course)
6. Forensic Science class (new course)

CLASS

1. Master of Social Work (GRE) (program change)
2. Master of Urban Studies and Planning (program change)
3. Bachelor of Social Work (program change)
4. Addition of language in Area C (program change)
5. Bachelor of Arts in English (major/minor) (program change)
6. The Bible as Literature (course change)
7. Philosophy and Psychology of Love (course change)
8. Forensic Photography (new course)
9. Master of Arts in Mass Communications (new degree program)
10. Master of Science in Community Policing Administration (new degree program)

Announcements and comments

Adjourn

Thursday, February 18, 2010 at 10:00 am
Hill Hall, Seminar Room

Dr. Elazer Barnette - Presenter

In attendance: Dr. Mary Wyatt, Dr. Larry Stokes, Dr. Yonpae Park, Dr. Dorothy Gardner-Martin, Mrs. Hope Cranford, Dr. Asad Yousuf, Dr. Virginia Edwards, Dr. Cecil Jones, Ms. Lauren Kirkland, Ms. Bernadette Ball-Oliver, Dr. Jane Gates, Dr. Mostafa Sarhan, Ms. Gloria Dukes

Handouts given:

- Student Survey Form
- University System of Georgia Baccalaureate and Master's Degree Procedures: Criteria and Procedures for New Programs

Proposed Bachelor of Science in Education Degree Requirements (handouts):

- Biology
 - Mathematics
 - English
 - Technology Education
 - Family and Consumer Science
 - Business Education
-
- Introduction and biographical information given by Dr. Elazer Barnette, who has a background in Technology Education;
 - Brief introduction and background information given by attendees;
 - Board of Regents will not allow a degree program to be brought on board if it is being offered at a nearby institution;
 - Six degree tracks were chosen based on programs being offered at other local institutions, programs that would be successful and programs that would be approved by the BOR based on areas of need;
 - Presentation entitled: Planning Proposal for New Baccalaureate Degree in Education presented by Dr. Barnette (see copy of slides)
 - Student Survey Form passed out to all attendees; purpose of the form is to survey students to see how many would change their major or be interested in an education program if it was available at Savannah State?
 - Regional demographics are needed to determine the need for the selected degree programs. For example, if SSU graduates ten (10) Technology Education majors, how many can be placed in the surrounding area due to a need for Technology Education teachers?
 - What type of structure will SSU have or implement, a Dean of Education, a director, a department head? Decision needs to be made early on to set up the structure of the program so questions and problems can be addressed on an immediate basis. NCATE will also be looking at the faculty structure of the proposed program.
 - Some states require that you be licensed in the content area in which you are teaching. SSU needs to look into whether or not you are required to be licensed to teach a particular content area within the state of Georgia?
 - Several of the degree curriculums being presented already have endorsements from persons

in the local community. Letters of endorsement have been written and more will be forthcoming.

- Team members present were charged with reviewing the six degree programs to make sure courses listed will cover what a student needs to graduate with a solid education degree. Recommendations are welcomed from those present as well as information shared by colleagues within departments and the local school system.
- Dr. Barnette also said to look at programs/universities that you know are strong and pull ideas from their programs that may be incorporated into Savannah State's program. Deadline set for next Wednesday to return feedback.

Questions presented to Dr. Barnette:

Q1. What is the rationale behind moving forward baccalaureate degree proposals as opposed to the model of the MAT when in fact it seems as if, nationally, when looking across Georgia, for example Georgia College and others, you have that and already moving toward a graduate degree that is inclusive of that baccalaureate degree?

A1. That path could have been chosen, but you need to have an inventory of the faculty SSU has now because in order to move forward an MAT program, you need to have enough faculty that are identified as graduate level faculty. Dr. Barnette stated that he prefers a traditional capacity over MAT models and once SSU gets a program on board, then SSU can move forward with that model, but his recommendation as the consultant is to stay with the model that SSU has now because there is a future need for those particular areas.

Dr. Barnette called the Board of Education and spoke with the consultants for Technology Education and Family and Consumer Science and found that there was a great need for Technology Education, Family and Consumer Science and Business Education programs. The consultants are more than willing to lend a helping hand to SSU to get those programs onboard.

Basically, Dr. Barnette is choosing to start off on an avenue where SSU can get the programs approved versus some of the other models that can be seen in the University System of Georgia.

Q2. An education program is already established in this city at Armstrong Atlantic State University, so how do you perceive in the future, in our city, that we compete with them in recruitment or enrollment?

A2. You have had a relationship with Armstrong in the past, but right now there is no relationship, so you are really starting new and the programs we have on the list, Armstrong is not looking at that population of students. Right now Dr. Barnette is looking at what they are approved to offer and he has chosen programs that AASU is not offering. Students that would have normally have chosen Armstrong, will now choose SSU. So the important thing is to look at the quality of the programs. You want the students to come out saying they were ready when they started their first job.

Q3. Participant did not see anything listed as a part of orientation to teaching. She would like to think that teacher preparation candidates would need to know something about the population they are being prepared to serve and they are not looking at one race of students and those who come out unprepared, they may be prepared to teach their particular discipline but they are not prepared to present and interact with the population of students who are waiting for their skill.

A3. Everything is gender neutral and race neutral to allow for passing of NCATE approval standard four which deals with diversity. When students exit SSU as new teachers, they will be prepared to teach students in Savannah, in China or wherever they may go. Proper field placements are important to properly prepare teachers for real world scenarios once they graduate. Orientation is a built-in part of many courses, orienting the students to deal with a diverse group is very important. The second part is orienting future teachers so that they may be introduced to technology so new technology can be brought to their students.

Q4. One thing that we see from many of our new teachers the school system is lack of classroom management even after taking classroom management courses, especially in secondary education where the environment is very challenging, how do you propose to deal with that?

A4. Again, placements are very important. You cannot take the easy route; you must place students in a variety of situations so they get exposed to all sorts of environments by the time they reach senior year. You want them to be exposed to numerous situations so they know how to deal with a wide range of situations when they graduate and enter the classroom.

Q5. We have a degree program in behavior analysis, and when we talk to people in the community, particularly educators in different counties one thing they said was that they didn't have the tools even after completing the courses, it would be a good idea if we were to use the existing behavior analysis tools we have to manage the behavior in the classroom, that is one of the reasons we moved forward the behavior analysis degree.

A5. Since we know this upfront, as we begin to infuse things in to the program, we need to try and insure that classroom management courses are high priority. Make sure classroom management courses are structured to deal with secondary as well as elementary school age children.

Q6. What is the correct number of student teaching hours? In some institutions it is 9 and others 12.

A6. Dr. Barnette stated that he is awaiting an answer from the Board of Regents. He has also found that at different institutions throughout Georgia, that the requirements are different at each institution.

Q7. There seems to be a mention of competition between Savannah State and Armstrong. How will we compete with Armstrong with the program we are proposing to offer?

A7. There are ways that Savannah State can set itself apart by choosing different methods of delivery, like perhaps offering weekend classes, or offering online classes. You have to think about delivery and innovative ways that your peers have not thought of offering. You also have to prepare your faculty to be enthusiastic about new delivery methods, such as blackboard and online classes.

Q8. Out of curiosity, I saw the education courses that are listed and we have a large number of young teachers that are entering the profession and are professionalism and professional etiquette embedded in these courses?

A8. Professional disposition is the name of such courses, but they are not listed. Each institution has a conceptual framework and integral to that framework are courses like diversity, professionalism and ethics.

**Savannah State University
Office of the Vice Chancellor for Academic Affairs**

**The Proposed New Bachelor of Science in Education Degree (BSED)
with a Concentration In Secondary Education
(Biology Education, Business Education, English Education, Family and Consumer Science
Education, Mathematics Education, or Technology Education)**

The secondary education curriculum leads to the Bachelor of Science degree that develops effectiveness in communication, leadership, and other skills necessary for teaching at the high school level, community college/technical colleges, management trainer in industry, and other teaching related careers.

Survey Form

Survey Key:

5= Strongly Agree; 4= Agree; 3=Undecided; 2=Disagree; 1=Strongly Disagree

Check the survey number of each question that *best reflects* your opinion.

	Survey Numbers				
1. I support the development of the BSED Degree with a concentration in Biology Education, Business Education, English Education, Family and Consumer Science Education, Mathematics Education, or Technology Education	5	4	3	2	1
2. I would consider adding a BSED in Secondary Education degree concentration to my current major.	5	4	3	2	1
3. I would change my current major to the Bachelor of Science in Secondary Education.	5	4	3	2	1
4. As an undecided major, I would choose the BSED Degree with a Concentration in Secondary Education.	5	4	3	2	1

5. If you checked you would consider
The BS in Secondary Education Degree,
Choose your preferred concentration area.

a. Biology Education	5	4	3	2	1
b. Business Education	5	4	3	2	1
c. English Education	5	4	3	2	1
d. Family & Consumer Sciences Education	5	4	3	2	1
e. Mathematics Education	5	4	3	2	1
f. Technology Education	5	4	3	2	1

Savannah State University
Office Of the Vice Chancellor for Academic Affairs
Savannah, Georgia 31404
Education Program Survey Results

		Occurrence of Each Number				
		5	4	3	2	1
1	I support the development of the BSED Degree with a concentration in Biology Education, Business Education, English Education, Family and Consumer Science Education, Mathematics Education, or Technology Education.	243	96	50	9	3
2	I would consider adding BSED in Secondary Education degree concentration to my current major	108	114	82	39	41
3	I would change my current major to the Bachelor of Science in Secondary Education	66	48	94	68	122
4	As an undecided major, I would choose the BSED degree with a Concentration in Secondary Education.	96	83	94	46	87
5	Choose your preferred concentration area.					
a.	Biology Education	69	59	62	42	78
b.	Business Education	116	93	41	25	43
c.	English Education	55	69	59	58	62
d.	Family and Consumer Science Education	62	82	68	36	52
e.	Mathematics Education	114	58	57	33	57
f.	Technology Education	123	89	38	19	46