Request for Authorization
to offer the existing
Biological Science Major
on the Griffin Campus

Institution: The University of Georgia
Date: August 26, 2004
School: College of Agricultural and Environmental Sciences
Departments: AAEC, CRSS, ENTO, FDST, HORT, PATH
Name of Program: Biological Science
Degree: Bachelor of Science in Agriculture (B.S.A.)
Major: Biological Science
CIP Code:
Starting Date: Fall 2005

Signatures:

Dean of the College

Date

Department Head

10/21/04

Date

Program Abstract

Text for recommendation to Board of Regents by President Adams
Proposal for: Authorization to Offer the Existing Biological Science Major on the Griffin Campus

Curriculum Committee Chair

10/21/04

Date

Mark R. Bloom
Faculty Council Executive Committee Chair

10/21/2004

Date

Amy Broder
Associate Dean for Academic Affairs

10/21/2004

Date
Program description and objectives

The College of Agricultural and Environmental Sciences (CAES) is seeking authorization to offer a program of undergraduate courses on The University of Georgia (UGA) extended campus at Griffin. The undergraduate program will lead to a Bachelor of Science in Agriculture (B.S.A) degree with a major in Biological Science. The program will be offered as a “2+2” program in cooperation with Gordon College. The Bachelor of Science in Agriculture (B.S.A) degree and the Biological Science major are an existing degree and major, and are currently offered in Athens.

The rationale for offering this program on the UGA Griffin Campus is to 1) provide an inter-disciplinary program that will train students in biological science using the most recent developments in agricultural sciences, such as biotechnology, plant genetics and integrated pest management, 2) provide students with educational opportunities to benefit from practical experiences that can be provided by the research environment of the UGA Griffin Campus, and 3) provide the opportunity for students to receive a UGA undergraduate degree in south metro Atlanta and middle Georgia, particularly African-American and Hispanic students.

An additional reason that makes the undergraduate academic program desirable on the Griffin Campus is the ability to capitalize on the exiting infrastructure at both Gordon College and the UGA Griffin Campus. The University of Georgia Griffin Campus was established in 1888 and is now a world renowned research facility. The original 123 acre campus now consists of 80+ buildings that total 378,000 sq. ft., a graduate level library, a unique Envirotron, rain shelter facilities for controlled environmental studies, 1000+ acres of research land, and numerous greenhouses. The 40+ faculty and 280+ support staff are heavily engaged in research, graduate education, and to a lesser extent, undergraduate education with other institutions of higher learning in the region (e.g., Gordon College, Mercer University, and Griffin Technical College). The CAES faculty propose that offering academic courses at the undergraduate level on the Griffin Campus will strengthen the campus and the educational opportunities of the region.

Gordon College is located 20 miles south of the UGA Griffin Campus. It has been a two year college of the University System of Georgia since 1972. Gordon College has an enrollment of 3,500+ students and offers an Associate of Arts degree with a choice of 12 majors and an Associate of Science degree with a choice of 27 majors. Majors offered at Gordon College that are relevant to this proposal and that are eligible for the University System of Georgia transfer program include: Agricultural and Environmental Sciences, Biological Sciences, Forestry, and Horticulture. It is anticipated that the initial enrollment of undergraduate students in the fall of 2005 will be 20 - 30 students. Student interest surveys and anecdotal evidence indicate that the numbers would rise dramatically over time.

The CAES 2003 Strategic Plan specifically identified “the initiation of the undergraduate program at Griffin in conjunction with Gordon College” as a key action item in its new goal to “embrace the state as a classroom.” And, the plan's timeline calls for implementation of the program during 2004-2005. Thus, the priority of this program has been clearly identified. This strategic directive, combined with the University System of
Georgia’s long-standing aspiration to promote “sharing physical, human, information, and other resources in collaboration with other System institutions…”, make the proposed collaboration of The University of Georgia and Gordon College a timely action that can enhance student and faculty diversity and promote the economic and educational opportunities for the citizens of south metro Atlanta and middle Georgia.

**Justification and need for the program**

1. Societal need for graduates

The CAES-Biological Science major provides a flexible program of study that prepares students for graduate and professional study and for careers in business, industry, and government. A biological science major is a perfect fit for students interested in biology, biochemistry, chemistry, molecular biology, genetics, microbiology, cellular biology, and/or ecology. The Griffin Campus program will emphasize biological science as it relates to environmental and urban agricultural issues. According to the Georgia Department of Labor, Workforce Information and Analysis Division, the demand for educated workers in careers related to the biological sciences are expected to increase between 30-50% by 2010. Specifically, the demand for workers educated at the Doctoral degree level as Biological Scientists and Wildlife Biologists are expected to increase 30% by 2010. According to the National Association of Colleges and Employers, beginning salary offers in 2003 averaged $29,456 a year for bachelor’s degree recipients in biological and life sciences: $33,600 for master’s degree recipients and $42,244 for doctoral degree recipients.

2. Student demand for the program in the region served

A survey conducted by Gordon College’s administration showed that a substantial majority of students (97%) intend to pursue a four year degree. About 75% of the students also indicated an interest in pursuing a four year degree on the Gordon Campus if a program in their intended major were available. According to the UGA 2001, 2002 and 2003 Fact Book statistics, Gordon College consistently ranks between 10th and 12th of the 50+ colleges and universities from which undergraduate students transfer to The University of Georgia.

With the assistance of the Gordon College faculty and administration, the CAES Griffin Campus Curriculum Committee conducted a student survey during the spring semester of 2004. The purpose of the CAES survey was to determine the level of interest among Gordon student’s in pursuing an undergraduate degree from the University of Georgia College of Agricultural and Environmental Sciences if the junior and senior years were offered at the Griffin Campus. The survey questions were chosen from the CAES survey that was conducted at Abraham Baldwin Agricultural College (ABAC) in Tifton, as part of the launch of their new undergraduate program in 2002. The Gordon College administration approved the survey questions and suggested that it be distributed with the final exams in the science classes. A survey was returned by each of the 375 students
that completed a final exam. Results of the survey indicate that 72% (270 students) were interested in obtaining an undergraduate degree from the University of Georgia if the junior and senior years were offered at the Griffin Campus. Of the 72% that indicated a positive interest, 49% (133 total individuals) indicated they would be interested in pursuing a Bachelor of Science in Agriculture (B.S.A.) degree with a major in Biological Science. Of the 133 interested students, 19% were interested in the Environmental Resource Sciences. Ninety-one students indicated that they would be interested in enrolling in the proposed 2+2 program for the Fall 2005 semester, (Appendix B).

A similar student interest survey was conducted during the spring semester of 2004 at two of the largest high schools in area surrounding the Griffin Campus. Survey results at Spalding High School indicate that 71% of the 715 students that responded were interested in obtaining an undergraduate degree from the University of Georgia if the junior and senior years were offered at the Griffin Campus and the freshman and sophomore years were offered at Gordon College or another qualified transfer institution. Of the total 715 students surveyed, 36% indicated they would be interested in pursuing a Bachelor of Science in Agriculture (B.S.A.) degree with a major in Biological Science. The most appealing areas of emphasis within the Biological Science major were General Biological Sciences (31%), followed by Environmental Resource Sciences (30%), and Plant Sciences (19%) (Appendix C).

The results of the survey conducted at Griffin High School were very similar. Of the 800 student respondents, 68% indicated they were interested in obtaining an undergraduate degree from the University of Georgia if the junior and senior years were offered at the Griffin Campus and the freshman and sophomore years were offered at Gordon College or another qualified transfer institution. Forty-six percent indicated they would be interested in pursuing a Bachelor of Science in Agriculture (B.S.A.) degree with a major in Biological Science. The most appealing areas of emphasis within the Biological Science major were General Biological Sciences (35%), followed by Environmental Resource Sciences (33%), and Plant Sciences (16%) (Appendix D).

The results of these college-level and high school surveys indicate a remarkably strong demand for The University of Georgia to offer an undergraduate degree on the Griffin Campus in conjunction with Gordon College. The surveys also indicated a significantly large interest in the Bachelor of Science in Agriculture (B.S.A.) degree with a major in Biological Science.

3. Additional reasons that make the program desirable

Offering a University of Georgia Bachelor of Science in Agriculture (B.S.A.) degree with a major in Biological Science on the Griffin campus affords students a unique opportunity to combine classroom, research, and work experiences. In addition to having close proximity to the faculty that are associated with
teaching, the Griffin Campus undergraduate students will have access to faculty from the USDA Plant Genetic Resources Conservation Unit (PGRCU), the Center for Food Safety, the Food Product Innovation and Commercialization Center, and the Georgia Center for Urban Agriculture. Over the past 20+ years hundreds of Gordon College students have been employed as part-time student workers and summer workers in these programs on the Griffin Campus. With the launch of the undergraduate program, priority for employment could be given to students enrolled in the CAES degree program. This opportunity would give the students valuable work experience and a closer association with the faculty. Although only a very small percentage of the faculty are needed to launch the undergraduate academic program, the proximity of the undergraduate students to the other faculty on the Griffin Campus has great potential in the area of student research and mentoring.

To determine the interest in teaching undergraduate courses on the Griffin Campus, a survey was conducted of all persons with faculty rank and any staff that held a Ph.D. (80 surveys were distributed). Seventy-eight percent of the respondents indicated that they would be willing to teach all or part of a course. Thirty-eight percent preferred to teach the entire class and 62% indicated they would prefer to teach part of a course. Fifty-eight percent indicated that they would be willing to advise or mentor an undergraduate student (Appendix E).

Public and private institutions in the state offering similar programs

There are no University System four-year institutions in the area bounded by Clayton College and State University, Columbus State University, State University of West Georgia, and Georgia College and State University. Further, these institutions do not offer the academic opportunities proposed for the Griffin Campus. Thus, a wide area of non-competing opportunities exists for University of Georgia academic programming in this part of the state. The closest post-secondary institution offering junior and senior level courses in the sciences related to agriculture is Fort Valley State University (FVSU). Fort Valley State University, College of Agriculture, Home Economics and Allied Programs is located 75 miles south of the Griffin Campus and offers majors in Agricultural Economics, Agriculture Education, Animal Science, Agricultural Engineering Technology, Ornamental Horticulture, and Plant Science. The proposed UGA program contains aspects that would be complementary to the FVSU program, and the possibility for joint enrollment has been discussed by both the Griffin faculty and the Griffin administration. While the target audience for the Griffin program is primarily within the 50-mile radius of the campus, there may be potential for partnership with FVSU.

**Procedures used to develop the program.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Procedure</th>
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<tr>
<td>Date</td>
<td>Event</td>
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<tr>
<td>June 2002</td>
<td>University of Georgia System Chancellor Thomas Meredith visited the Griffin community and the Griffin Campus and discussed the possibilities for undergraduate teaching. He indicated that he is strongly supportive of partnerships between system institutions.</td>
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<tr>
<td>July 2002</td>
<td>Gordon College President Dr. Larry Weill indicated interest in pursuing a 2+2 undergraduate partnership with CAES, similar to the Tifton Campus model.</td>
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<tr>
<td>November 2002-Present</td>
<td>Dr. Knauft, Associate Dean for CAES Academic Programs, met with Griffin Campus faculty and discussed the procedures and options for launching an undergraduate program.</td>
</tr>
<tr>
<td>June 2003</td>
<td>Dr. Jeff Jordan is identified as faculty coordinator for the Griffin Campus teaching program.</td>
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<tr>
<td>June 2003</td>
<td>Dr. Jordan is appointed to the CAES curriculum committee and chairs the newly formed Griffin Campus Curriculum Committee. The committee has a representative from each academic department.</td>
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<tr>
<td>August 2003-Present</td>
<td>Curriculum committee meets regularly to develop a curriculum that will be relevant to area students and capitalizes on the teaching and research strengths of the faculty.</td>
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<tr>
<td>November 2003</td>
<td>Annie Hunt Burriss (Governor's office) and Tom Daniel (Board of Regents) visit the Griffin Campus and meet with community leaders concerning the “2 + 2” CAES baccalaureate degree program on the Griffin Campus.</td>
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<td>February 2004</td>
<td>Dr. Arkin meets with President of Clayton College and State University Dr. Tom Harden for a briefing on the plans for the Griffin Campus “2 + 2” program. Drs. Arkin, Weill and Harden attend a joint luncheon to discuss plans for the “2+2” program. They agree to meet quarterly or on an as needed basis for continued planning purposes.</td>
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<tr>
<td>May 2004</td>
<td>Student surveys are conducted in area high schools and Gordon College to determine interest in proposed majors and areas of interest. Faculty survey conducted to determine interest in teaching proposed undergraduate courses.</td>
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<tr>
<td>August 2004</td>
<td>Proposal for offering the existing CAES Biological Science major at the Griffin Campus in cooperation with Gordon College is submitted to the CAES and UGA Curriculum Committees. Dr. Jerry W. Johnson is appointed as faculty coordinator for the Griffin Campus teaching program and is appointed to the CAES curriculum committee.</td>
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</table>
Curriculum

BIOLOGICAL SCIENCE (B.S.A.)
Semester Degree Requirements

Entrance Requirements for the Major

Semester Core Curriculum
(Selected with the advice of an academic advisor)

Areas A B C D E 42 hours
Area F 18 hours

Major Requirements 60 hours

College-wide requirements must be satisfied in order to graduate with this major

TOTAL DEGREE HOURS 120

Area A - Essential Skills (9 hours)
Area A is satisfied by students completing nine hours from the following list. Students must take ENGL 1101 and ENGL 1102 and will select a three-hour math course in consultation with an academic advisor.

ENGL 1101
ENGL 1102

Area B - Institutional Options (4-5 hours)
Area B is satisfied by electives selected by the student with approval of an academic advisor.

Area C - Humanities/Fine Arts (6 hours)
PREFERRED COURSE: SPCM 1100 or SPCM 1500 - (take under general electives if not taken in Area C).
Area C is satisfied by completing two of the following courses. Students may select one course from the Fine Arts list and one from the Humanities list, or students may select two courses from different departments in the Humanities list.

Fine Arts

ARHI 2100
ARTS 2000
ARTS 2050

DRAM 2010
DRAM 2000
DRAM 2120

MATH 1113
MUSI 2020
MUSI 2040

MUSI 2060
MUSI 2080

CLAS 1000
CLAS 1010
CLAS 1020
CLAS(LING) 2010
CMLT 2111
CMLT 2210
CMLT 2212
CMLT 2220

CMLT 2500
ENGL 2310
ENGL 2320
ENGL 2400

ITAL 2500
LING 2100
PHIL 2200
RELI 1001

REL 1006
REL 204
REL(AFAM) 2005
SPCM 1100
SPCM 1500

PHIL 1500
PHIL 2400
SPCM 1100
SPCM 1500

ROML 2550
RUSS 2050

REL 1002
Foreign language courses
Area D - Science, Mathematics, and Technology (10-11 hours)
PREFERRED COURSES: BIOL 1107-1107L, (CHEM 1211, CHEM 1211L), and (MATH 2200, MATH 2200L) - (take under general electives if not taken in Area D).

Area D for Science Majors -- ten or eleven hours

- Select two courses from the four-hour science course list.
- Select one course from the mathematics, science, or technology course list.

### Area D -- Four-hour science course with laboratory

<table>
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<tr>
<th>ASTR 1010</th>
<th>CHEM 1211</th>
<th>CSCI 1301-1301L</th>
<th>GEOL 1260-1260L</th>
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<td>ECOL 1000-1000L</td>
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### Area D -- Three or four-hour mathematics, science, or technology courses

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<th>BIOL 1108-1108L</th>
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<td>CSCI 1100-1100L</td>
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<td>CSCI 1210</td>
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### Area E - Social Sciences (12 hours)

Students will select four courses from at least two departments from the list below: (Students who have not met the Georgia and U.S. Constitution requirement by examination should enroll in POLS 1101.)

(A passing grade on an examination on the history of the United States and Georgia is required to satisfy the United States and Georgia History Requirement for all persons receiving a baccalaureate degree from the University, unless exempted by one of the following courses: HIST 2111, HIST 2112. Examinations are given to freshmen during orientation and twice each semester by the History Department. Reexamination is permitted. Examination dates are announced in the Schedule of Classes.)
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<td>SOCI 1101</td>
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</table>

**Area F - Courses Related to Major** (18 hours)

- BIOL 1108-1108L
- CHEM 1212
- CHEM 1212L
- CHEM 2211
- CHEM 2211L
- CHEM 2212
- CHEM 2212L
- PHYS 1111-1111L

**Entrance Requirements**

Completion of Core Areas A-E.

**Major Requirements**

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.

**Required Courses** - 22-26 hours

- BCMB(BIOL)(CHEM) 3100
- GENE(BIOL) 3200 or PGEN 3580
- MIBO 3500

Select six to seven hours from the following:

- BIOL 3700
- CBIO(BIOL) 3300
- CBIO(BIOL) 3400
- CBIO(BIOL) 3800
- CBIO(MIBO) 4100/6100
- CBIO 4730/6730
- CRSS 4040
- ENTO (BCMB) 4200
- GENE (BIOL) 3500
- MIBO 4700/6700
- VPHY 3100
Select six to eight hours from the following:

**ADSC 3300**  
**ADSC 3310-3310L**  
**ADSC 3400-3400L**  
**Biol 3110L**  
**CBIO 3000-3000L**  
**CBIO(BIOL) 3410L**  
**ECOL 3260-3260L**  
**ECOL(BIOL) 3500-3500L**  
**ECOL(BIOL) 3510**  
**ENTO 3740-3740L**  
**MARS 3450-3450L**  
**MIBO 3510L**  
**PATH 3530-3530L**  
**POUL 3750**  
**POUL 3800-3800L**  
**POUL 4060/6060**  
**POUL 4330/6330**

**Major Electives** - 19 hours  
**PHYS 1112-1112L**

Fifteen hours of upper division courses in the College of Agricultural and Environmental Sciences

**General Electives** - 15-19 hours  
Upper division (0-2 hours)  
Any level (0-19 hours)

**Total hours required**  
120

**CAES Upper Division Courses available via distance learning or on the Griffin Campus**

**AAEC 3040** – Agribusiness Marketing (3h)  
**AAEC 3060** – Principles of Resource Economics (3h)**  
**AAEC 3100** – Food and Fiber Marketing (3h)  
**AAEC 3300** – Agribusiness Accounting  
**AAEC 3400** – Introduction to Agricultural Policy (3h)  
**AAEC 3610** – Applied Econometrics (3h)  
**AAEC 3690-3690L** – Agribusiness Finance (4h)  
**AAEC 3980** – Introduction to Agribusiness Management (3h)*  
**AAEC 4650** – Environmental Economics (3h)  
**AAEC 4800/6800** – Water Resource Economics (3h)*

**AESC 4950** – Special Problems in Agricultural and Environmental Sciences (1-3h)  
**AESC 4960** – Undergraduate Research in Agricultural and Environmental Sciences (2-6h)

**CRSS 3060-3060L** – Soils and Hydrology (4h)  
**CRSS 3270-3270L** – Principles of Turfgrass Management (3h)*  
**CRSS (ENTO)(PATH) 3500** – Turfgrass Pest Management (3h)*  
**CRSS 4040/6040** – Plant Breeding (3h)  
**CRSS 4090** – Advanced Turfgrass Science (3h)*
CRSS 4170-6170(and L) – Hydrology, Geology and Soils in Georgia (3h)
CRSS 4340 – Weed Science (3h)*

EHSC (FDST)(MIBO) 4310/6310-4310L/6310L – Environmental Microbiology (3h)

ENTO 3740-3740L – Insect Pest Management (4h)
ENTO 4000-4000L – General Entomology (3h)
ENTO (BCMB) (BTEC) 4200 – Biotechnology (3h)
ENTO 4250-4250L – Pesticide Management and Utilization (3h)
ENTO (PATH) 4360 – Ornamental Pest Management (3h)
ENTO (4400/6400) – Insect Behavior (3h)
ENTO 4500-4500L – Biological Control of Pests (3h)
ENTO (CRSS)(PATH) 4740/6740-4740L/6740L – Integrated Pest Management (3h)

HORT 4090 - Landscape Management (3h)*
HORT 4440/6440-4440L/6440L – Environmental Physiology in Horticulture (3h)
HORT 4990-4990D – Environmental Issues in Horticulture (1h)

PATH 3530-3530L- Introduction to Plant Pathology (3h)
PGEN 3580 – Plant Genetics (3h)

* Available via independent and distance learning
** Satisfies the CAES Cultural Diversity Requirement
### Gordon College 2-year Curriculum

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<th>Fall Semester, Year 1</th>
<th>Spring Semester, Year 1</th>
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<td>ENGL 1101</td>
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* Or other Area E elective

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### UGA, Griffin Campus

#### Biological Sciences Major

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<tr>
<th>Fall Semester, Year 3</th>
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<tr>
<td>Intro. Biochemistry &amp; Molecular Biology</td>
<td>Principles of Genetics</td>
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<tr>
<td>BCMB 3100</td>
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Inventory of Griffin faculty directly involved the Biological Science major.

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<tr>
<th>Dept.</th>
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<td>Wojciech Florkowski</td>
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<td>AAEC 3300-Agribusiness Accounting</td>
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<td>AAEC 3690-3690L-Agribusiness Finance</td>
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<td>AAEC</td>
<td>Jeff Jordan</td>
<td>Prof.</td>
<td>AAEC 3060-Principles of Resource Economics</td>
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<td>AAEC 4650-Environmental Economics</td>
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<td>CRSS.</td>
<td>Jerry Johnson</td>
<td>Prof.</td>
<td>PGEN 3580-Principles of Genetics (Team with Jenkins)</td>
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<tr>
<td>CRSS</td>
<td>Gil Landry</td>
<td>Prof.</td>
<td>CRSS 3270-3270-L Turfgrass Management</td>
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<td>CRSS</td>
<td>Tim Murphy</td>
<td>Prof.</td>
<td>CRSS (ENTO) (PATH) 3500-Turfgrass Pest Management</td>
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<td>CRSS</td>
<td>Paul Raymer</td>
<td>Prof.</td>
<td>CRSS 4040-Plant Breeding</td>
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<td>CRSS</td>
<td>Larry Shuman</td>
<td>Prof.</td>
<td>CRSS 3060-3060L-Soils and Hydrology</td>
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<td>CRSS 4170/6170-4170L/6170L-Hydrology, Geology and Soils in Georgia</td>
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<td>ENTO</td>
<td>Kris Braman</td>
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<td>ENTO 3820-3820L-Forest Protection Entomology</td>
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<td>ENTO 4360-Ornamental Pest Management</td>
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<td>ENTO 4500-4500L-Biological Control of Pest</td>
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<td>ENTO</td>
<td>David Buntin</td>
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<td>ENTO 3740 -3740 Insect Pest Management</td>
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<td>ENTO</td>
<td>Wayne Gardner</td>
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<td>Tracy Jenkins</td>
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<td>Ron Oetting</td>
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<td>ENTO 4250-4250L-Pesticide Management and Utilization</td>
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<td>Jinru Chen</td>
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<td>MIBO 3500-Introductory Microbiology</td>
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<td>Marilyn Erickson</td>
<td>Assoc. Prof.</td>
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<td>FDST</td>
<td>Robert Phillips</td>
<td>Prof.</td>
<td>BCMB 3100-Introductory Biochemistry and Molecular Biology (Team with Erickson)</td>
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<tr>
<td>HORT</td>
<td>Orville Lindstrom</td>
<td>Prof.</td>
<td>HORT 4440/6440-4440L/6440L-Environmental Physiology in Horticulture</td>
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<td>HORT 4990-4990D-Environmental Issues in Horticulture</td>
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<td>PATH</td>
<td>James Buck</td>
<td>Asst. Prof.</td>
<td>PATH 3530-3530L-Introductory Plant Pathology</td>
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<td>Gordon</td>
<td>Allen Gahr</td>
<td>Assoc. Prof.</td>
<td>Gordon College Faculty</td>
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<tr>
<td>Gordon</td>
<td>Mark Salata</td>
<td>Asst. Prof.</td>
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</tr>
<tr>
<td>Gordon</td>
<td>Theresa Stanley</td>
<td>Assoc. Prof</td>
<td>Gordon College Faculty</td>
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</tbody>
</table>

**Outstanding programs of this nature at other institutions**

1. **The UGA-Tifton Campus program - [http://www.dogsgonesouth.org/](http://www.dogsgonesouth.org/)**

The University of Georgia, College of Agricultural and Environmental Sciences launched a new major at the Tifton Campus in fall of 2003, and became the second site in the state to offer a UGA undergraduate program off the Athens campus. The Tifton Program is offered as a “2+2” program in cooperation with Abraham Baldwin College. The objectives of the Tifton program are to 1) offer a unique, cross-disciplinary program to train students in the most recent developments in agricultural sciences, such as biotechnology, precision agriculture, integrated pest management, and computer/digital applications to agricultural problems, 2) provide students with educational opportunities to benefit from practical experiences that can be provided by the research and extension environment of The University of Georgia Tifton Campus, and by the real-life situations available in southern Georgia, and 3) provide the opportunity
for students to receive a UGA undergraduate degree in the southern part of the state of Georgia.

2. University of Florida satellite campuses-Ft. Lauderdale, Ft. Pierce, Milton, and Apopka. [Donn Shilling, formerly with Mid-Florida Research & Education Center, Binion Rd., Apopka, Fl 32703-8504]

The College of Agricultural and Life Sciences at the University of Florida offers undergraduate and graduate degrees in agricultural majors at four satellite locations around the state. These programs are perhaps the most closely related to ours, in terms of cooperation between the main campus and two-year institutions, and involvement of off-campus faculty in teaching. Students at the University of Florida can receive degrees at satellite campuses in five areas: Turfgrass, Natural Resource Conservation, Nursery Management and Ornamental Horticulture, Agricultural Business Management, and Urban Entomology, without relocating to the main campus in Gainesville. Currently, there are 400 students enrolled in their satellite programs. The curricula involve both face-to-face and distance education formats, and complement course offerings from nearby two-year institutions. Student demographics are similar between the satellite and main campuses, with slightly more non-traditional, “place bound” students at the satellite locations. The satellite programs offer the College of Agricultural and Life Sciences room for expansion despite the current cap on enrollment imposed at UF-Gainesville.

3. The UGA-Gwinnett Center program – http://www.gactr.uga.edu/gwinnett/

In 2000, The University of Georgia expanded to its first off-campus, degree awarding institution, the Gwinnett Center. This is a joint program between Georgia Perimeter College and UGA that currently offers a number of graduate degree programs, including the CAES-based Masters of Food Technology. Thus, the proposed Griffin program would not be the first UGA degree offered outside of Athens, but is a logical progression of UGA’s desire to build on existing strengths at all UGA facilities. The Gwinnett Center should provide the model for many of the logistical considerations for delivering UGA degree programs outside of Athens, in conjunction with other systems institutions.

4. Joint Animal Science programs between Washington State University and University of Idaho. [John Froseth or Chris Holstetler, WSU Swine Center, PO Box 646351, Pullman, WA 99164-6351]

The campuses of Washington State University and University of Idaho are approximately eight miles apart. For years, they have collaborated in several areas, and currently cross-list about 800 courses. In particular, WSU provides a complete swine education and research program that it shares with Idaho, and likewise, Idaho provides shared research and education programs for sheep. The content of our program differs, but the collaborative effort between the two institutions is somewhat similar to the relationship between Gordon and UGA in the Griffin program. In the WSU-UI example, students do not change institutions
mid-way through their program as in our program, but rather commute back and forth during their 4-year program. This program provides an excellent model for the institutional framework associated with joint programs.

5. Montana State University program in Agricultural Operations Technology. [Clay Marlow, Assoc. Dean, College of Agriculture, Montana State University, Bozeman, MT 59717]

In 1998, MSU announced that it would be offering a joint 4-year Bachelor of Science degree in Agricultural Operations Technology between MSU-Bozeman and MSU-Northern. The program integrates applied and scientific course content in agricultural technology from two institutions in the state. The program is designed so that course offerings at the two campuses “complement rather than compete with each other.” However, their program utilizes distance learning technology to handle much of the collaboration, thus lacks the predominantly face-to-face, hands-on instruction of our program. Enrollment in MSU’s Agricultural Operations Technology major fluctuates between 30-40.

Inventory of pertinent library resources

The CAES Griffin Campus Library, a branch of The University of Georgia Libraries, houses a representative collection of books and journals to support graduate-level research in the areas of agricultural and applied economics, biological and agricultural engineering, crop and soil science, entomology, food science and technology, horticulture, and plant genetic resources conservation. The library is located on the first floor of the Stuckey Building. The library contains over 300 subscriptions to periodicals, over 10,000 catalogued books, on-line access to all Elsevier, Kluwer, Blackwell and Wiley Journals, the GIL on-line catalog, the GALILEO on-line databases, and document delivery service. Publications from the UGA Cooperative Extension Service and Experiment Stations are also available and are free to the public. Two staff members provide assistance and five computers, four printers, a copier and fax machine are available for students.

The Gordon College Library provides material to supplement students’ work in the classroom and the laboratory. The library also provides material for recreational reading and for the pursuit of special interests. The library is an open-shelf library with the books arranged according to the Library of Congress classification system. Students are encouraged to browse, to read while in the library, and to check out books. The library provides access to the collection through an on-line catalog, Voyager System, which is used by all of the University System schools.

Currently, the regular collection includes approximately 80,000 books. In addition to this collection, students have access to a variety of valuable reference tools. The library subscribes to more than 125 periodicals, with the back issues of many of these bound or on microfilm. Current coverage of local, state, regional, national, and international events.
is provided by a number of newspapers in the library and by NEWSBANK, and
electronic database. Galileo (Georgia Library Learning Online), another electronic
resource, provides access to full-text journal and magazine database, the Internet, and
many online catalogs.

As a member of the regional group of cooperating libraries, the Gordon College library
makes its facilities and collection available to other academic institutions. In return,
Gordon College students have access to the resources of many other colleges,
special, and public libraries. As the learning resources center for Gordon College, the
library combines traditional library services with modern educational technology. In
addition to books and periodicals, the library houses a growing collection or
audiovisual materials, films, video-tapes, record, slides, and maps that are available
for student use in the Library. Record players, cassette players and recorders,
microfilm and microfiche reader-printers, film projectors, computers, and CD-ROM
reference materials are also available in the library.

Gordon students may use self-service, coin-operated photocopiers and microfilm
copiers located in the library. Computer-generated articles from GALILEO and the
Internet and word processed papers may be printed on a laser printer for a nominal
charge.

Qualifications of the students who will be recruited and admitted to the proposed
program.

Transfer students from Gordon College, as well as other System and non–System
institutions, must meet The University of Georgia, CAES admissions
requirements in order to participate in the program. Students seeking to take
courses offered at the Griffin Campus as transient students must meet The
University of Georgia’s established rules and regulations regarding transient
students.

Facilities

Classroom, laboratory, and library facilities are available at both the Griffin
Campus and the Gordon College. The primary teaching facility at the UGA Griffin
Campus is the Stuckey Conference Center. There are five classrooms that can
accommodate class sizes of 12 to 44 students. A 300-seat auditorium can be
used for classes of up to 120 students. A conference room with GSAMS
capability can seat 24 students. There is nearly 1,100 sq. ft. of unused space in
the Stuckey Building. Also available is a conference room in the Flynt Building to
seat between 14 and 38 people and an outdoor pavilion for various activities. The
following is a description of their facilities:

1. Stuckey Conference Center, Room 199 (approximately 314 sq. ft. of space);
   12 as a conference setup; 12-16 as a classroom setup; 20 as a theater setup.
2. Stuckey Conference Center, Room 143 (approximately 264 sq. ft. of space); 12 as a conference setup; 12 as a classroom setup; 16 as a theater setup.

3. Stuckey Conference Center, Room 201 (approximately 741 sq. ft. of space and GSAMS technology); 18 as a conference setup; 48 with perimeter seating; 36 as a classroom setup; 48 as a theater setup.

4. Stuckey Conference Center, Room 202 (approximately 853 sq. ft. of space); 44 as a classroom setup; 54 as a theater setup. If this room is divided into two rooms:
   a. Stuckey Conference Center, Room 202 A (approximately 400 sq. ft. of space); 16 as a conference setup; 20 as a classroom setup; 30 as a theater setup.
   b. Stuckey Conference Center, Room 202 B (approximately 468 sq. ft. of space); 20 as a conference setup; 24 as a classroom setup; 34 as a theater setup.

5. Stuckey Conference Center Auditorium (approximately 3,440 sq. ft. of space); 50 as a conference setup; 120 as a classroom setup; 300 as a theater setup; 300 as a banquet setup.

6. Flynt Conference Building, Conference Room (approximately 485 sq. ft. of space); 14 as a conference setup; 38 with perimeter seating.

7. Stuckey Conference Center, Room 130-132, formerly the Business Office (approximately 1,088 sq. ft of space); currently office space, bookstore space, vault space. This space is not being used as classroom space at this time.

8. Chapman-Woodruff Pavilion (approximately 4,594 sq. ft. of total space; 1,804 sq. ft. of “center” space); 84 in dining space using round tables; 84-150 in dining space using round and 6; rectangular tables; 150 as a theater set-up.

Laboratory Space

With some minor renovations, existing laboratories in the Redding Building can be used as teaching laboratories. Each laboratory is about 20 ft. wide and ranges from about 21 to 25 ft. long. The laboratories have side benches and center benches and would accommodate 10 to 12 students each. They also have air, vacuum and gas lines, sinks, and fume hoods. They have safety equipment including eye washes, emergency showers, and spill packs. In addition, there is a post-harvest systems laboratory with space for new laboratories. Students will also have access to space in the Instructional Complex at Gordon College. The Instructional Complex houses the entire Mathematics and Natural Sciences Division, includes computer services, 30 multimedia classrooms, four computer classrooms, two lecture halls, a computer center or student use, and laboratories
for the Natural Sciences. The first floor contains two lecture halls, four computer classrooms, four multimedia classrooms, and the computer center for student use. The second floor contains 10 multimedia classrooms and a Physics/Astronomy lab. The third floor contains eight multimedia classrooms and four biology labs. The fourth floor contains eight multimedia classrooms and four chemistry labs.

Technology

The existing Griffin Campus technological resources for instruction include:

Microcomputer Laboratory – Flynt Building, room 121
- Eight microcomputer mini-tower systems
- Microsoft Windows XP operating system
- Microsoft Office XP
- All systems are behind an active hardware firewall for security

Georgia Statewide Academic & Medical System (GSAMS) – Stuckey Building, Rm. 201
- Direct-linked video-conferencing (VTC) system to over 100+ existing systems Statewide
- VTC system is bridge-linked to points beyond State of Georgia boundaries via Georgia Technology Authority facilities in Atlanta ($75/hour)

Satellite downlink – Stuckey Building, room 201
- Wire-mesh, 8-foot diameter dish, roof mounted
- Analog signal for both C and Ku/H bands
- Digital signals (only when weather is appropriate)

Wiring for Continuing Education facilities – Stuckey Building
- All conferencing rooms (Auditorium, rooms 119, 114, 201, 200/202) are category-5 wired for computer data drops
- Auditorium and room 200/202 can receive satellite downlink
- Full wiring (multiple data drops) for rooms 114 and 200/202
- Fiber optic cabling available in Naomi Chapman-Woodruff Pavilion for use as data connection

Additional Needs required for Instructional programs
- ‘Solid’ satellite dish for better digital reception
- Larger pool of microcomputers for classroom instruction
- DHCP (providing Dynamic IP) addressing Campus-wide
- Wireless access within Stuckey Conference Center
- Additional data LCD display systems, permanently mounted
- Adherence to recent UGA policies on computer access for persons with disabilities
- ½ EFT employee to handle instructional computer support
Administration

Program Administration
The CAES Biological Science major will be administered through the Associate Dean for Academic Affairs, as are all other undergraduate majors in CAES. Local administration will be under the direction of the Assistant Dean of the Griffin Campus. The major will have an undergraduate faculty coordinator on campus that will provide day-to-day management of the program, and the support of an academic Program Specialist, who will report to the Assistant Dean. The undergraduate coordinator will be based in an academic department within CAES, but will have liaison responsibilities to all department heads with faculty in the program.

Program Support
The UGA Office of Instructional Support and Development will provide Griffin-based faculty with intensive workshops in course development and classroom instruction prior to the implementation of the major. Interactions will continue after the program has begun.

Assessment
Individual course offerings will be assessed with standardized end-of-term evaluations by students, peer-review of teaching, and student interviews. Student evaluations will be obtained each semester, while peer-review and student interviews will be obtained on a periodic basis.

Accreditation
No additional requirements necessary

Affirmative Action impact
It is fully expected that offering academic programs at the Griffin Campus will attract minorities, particularly African-American and Hispanic students. The partnership with Gordon College is expected to dramatically enhance the minority enrollment of CAES. The minority enrollment of freshmen at Gordon College was 25+% in Fall 2002.

Degree inscription
Bachelor of Science in Agriculture (B.S.A.)
Fiscal and enrollment impact, and estimated annual budget

Budget for offering the B.S.E.S. in Environmental Resource Science and the B.S.A. in Biological Science on the Griffin campus:

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<td>Positions (*salary and benefits)</td>
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<tr>
<td>3.0 instruction EFT distributed among teaching faculty*</td>
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<td>Stipends for adjunct and retired faculty</td>
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<td>Administrative Assistant*</td>
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<tr>
<td>½-time laboratory teaching assistant*</td>
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Estimated expenditures

Recurring operating costs

- Operating for laboratory, field and greenhouse courses: $42,000
- Students services: $20,000
- Office supplies and equipment: $12,000
- Travel: $12,000
- Computer support and equipment: $24,000

Projected revenues:

- Year 1 (25 students * $3,738/year) $93,450
- Year 2 (50 students * $3,738/year) $186,900
- Year 3 (75 students * $3,738/year) $280,350

* assume 100% in-state tuition

Total recurring costs are $560,000

In addition to the salaries and stipends for the teaching faculty, two staff support positions and one ½-time laboratory assistant will be required for the program. The academic program coordinator will be responsible for the day-to-day arrangements that link the students at Gordon to the UGA Griffin, including admission applications, registration for classes, arrangements for financial aid, and other fees. An administrative assistant will be needed to provide overall secretarial support for the faculty teaching in the program and the academic program coordinator. The ½-time laboratory teaching assistant will be needed to support the faculty that are instructing laboratory/greenhouse based courses.
List of Appendices

Appendix A
Letters of Support from:
  Dr. Larry Weill, President, Gordon College
  Dr. J. Puett, Department Head of Biochemistry, UGA
  Dr. Duncan C. Krause, Department Head of Microbiology, UGA
  Spalding County Board of Commissioners
  Griffin Spalding Chamber of Commerce
  Griffin-Spalding Partners in Education
  Griffin Spalding County School System

Appendix B
Gordon College Student Survey and Results

Appendix C
Spalding High School Student Survey and Results

Appendix D
Griffin High School Student Survey and Results

Appendix E
Griffin Faculty Survey and Results

Appendix F
Course Descriptions

Appendix G
Faculty Vitas on CD
OFFICE OF THE PRESIDENT
August 30, 2004

Dr. Gerald Arkin, Assistant Dean
The University of Georgia
College of Agricultural and Environmental Sciences
1109 Experiment Street
Griffin, GA 30223

Dear Dr. Arkin:

It is my pleasure to send to you this letter of support for your proposal to begin offering junior and senior level classes in the School of Agriculture at the University of Georgia on the Griffin campus. Gordon College is pleased to offer the highest quality instruction for freshman and sophomore students in support of all of our sister institutions in the University System of Georgia.

We will continue to seek ways to partner with the University of Georgia Griffin campus. We look forward to working with you in this program.

If you have any questions please do not hesitate to contact me.

Sincerely,

Lawrence V. Weill
President

LVW:bw

cc:  Dr. Michael Adams, President UGA
     Dr. Gale Buchanan, Agricultural Dean and Director UGA
August 24, 2004

Professor Jerry Johnson  
Georgia Station  
University of Georgia  
Griffin, GA 30223-1197

RE: BCMB 3100

Dear Professor Johnson:

On behalf of the Department of Biochemistry & Molecular Biology at the University of Georgia Athens campus, I am writing to affirm our recent discussions regarding the offering of a section of BCMB 3100 on the UGA-Griffin campus. The instructors in my department will cooperate with your two faculty members holding Ph.D. degrees in Biochemistry to offer a section that can include a combination of distance learning using some lectures from the Athens campus and some from the Griffin campus. Such cooperation will ensure uniformity in all sections being given on both campuses and, in time, it may be desirable for your faculty to assume the full teaching load.

I look forward to working with you and your faculty members in this important course as part of the BSA Biological Science major on your campus.

Sincerely,

[Signature]

J. David Puettt, Ph.D.  
Regents Professor & Head

JDP/rhh
August 19, 2004

Dr. Jeffrey Jordan
Department of Agriculture and Applied Economics
College of Agriculture and Environmental Sciences
University of Georgia
Griffin Station
Griffin, GA 30223-1197

Dear Dr. Jordan:

The Department of Microbiology is pleased to endorse your request to offer Introductory Microbiology (MIBO3500) at the Griffin campus as part of a proposed degree in Biological Sciences within the College of Agriculture and Environmental Sciences. It is our understanding and expectation that MIBO3500 will be taught by qualified faculty on the Griffin campus, with the same prerequisites and comparable course content and rigor as MIBO3500 taught by the Department of Microbiology on the Athens campus. To this end we are pleased to provide any assistance or information you may require in offering this course. Finally, we wish you success in your Biological Sciences initiative and applaud your decision to include microbiology as an important element of the curriculum.

Sincerely yours,

Sincerely,  
Duncan C. Krause  
Professor and Head
STATE OF GEORGIA

SPALDING COUNTY

RESOLUTION SUPPORTING THE PROPOSAL TO OFFER ACADEMIC CREDIT COURSES AT THE UNIVERSITY OF GEORGIA, GRIFFIN CAMPUS

WHEREAS, The Spalding County Board of Commissioners has been informed that The University of Georgia, College of Agricultural and Environmental Sciences, is considering offering academic credit courses at the Griffin Campus that would lead to an undergraduate degree from The University of Georgia.

WHEREAS, The University of Georgia, College of Agricultural and Environmental Sciences, faculty and administration, are exploring suitable curricula course offerings and the faculty and resources necessary for launching a for-credit degree granting teach program at The University of Georgia, Griffin Campus.

WHEREAS, The University of Georgia, College of Agricultural and Environmental Sciences, Griffin Campus, is engaged in a planning activity with Gordon College to consider a 2 + 2 program that will allow students to take their freshman-sophomore year at Gordon College and the junior-senior year at The University of Georgia, Griffin Campus.

BE IT RESOLVED, by the Spalding County Board of Commissioners that the Commission unanimously supports the proposal to offer academic credit courses at the campus leading to an undergraduate degree from the University of Georgia.

THEREFORE, BE IT FURTHER RESOLVED, that the Spalding County Board of Commissioners offers its aid and assistance to the University of Georgia in making this proposal a reality.

ADOPTED, this the 17th day of March 2003.

SPALDING COUNTY

By: [Signature]
Dick Morrow, Chairman

Attest: [Signature]
Phyllis P. Doane
County Clerk

RECEIVED
MAR 28 2003
ASSISTANT DEAN
GRIFFIN CAMPUS
RESOLUTION

GRiffin-SPALDING CHAMBER OF COMMERCE

WHEREAS, The Griffin-Spalding Chamber of Commerce Board of Directors representing 863 members has been informed that The University of Georgia, College of Agricultural and Environmental Sciences, is considering offering academic credit courses at the Griffin Campus that would lead to an undergraduate degree from The University of Georgia, and

WHEREAS, the Griffin-Spalding Chamber of Commerce has maintained as one of their priority issues throughout the years support for quality and advanced educational opportunities wherever possible, and

WHEREAS, The University of Georgia, College of Agricultural and Environmental Sciences, faculty and administration, are exploring suitable curricula course offerings and the faculty and resources necessary for implementing a for-credit degree granting teaching program at the Griffin Campus, and

WHEREAS, The University of Georgia, College of Agricultural and Environmental Sciences, Griffin Campus, is actively engaged with Gordon College in Barnesville, Ga. to consider a 2 + 2 program that will allow students to take their freshmen and sophomore year at Gordon College and the junior and senior year at The University of Georgia, Griffin Campus.

BE IT THEREFORE RESOLVED, that the Griffin-Spalding Chamber of Commerce Board of Directors unanimously supports and offers assistance to a proposal to offer academic credit courses at The University of Georgia, College of Agricultural and Environmental Sciences, Griffin Campus leading to an undergraduate degree from the University of Georgia.

ADOPTED, this 13th day of March, 2003

Griffin-Spalding Chamber of Commerce

[Signature]
Chairman 2003 Board of Directors
June 30, 2003

Dr. Gerald Arkin
University of Georgia Experiment Station
1109 Experiment Street
Griffin, Georgia 30223

Dear Dr. Arkin:

On behalf of the Partners in Education Board of Directors, I would like to take this opportunity to offer our support as you develop a program that would allow students to earn a Baccalaureate Degree from the University of Georgia here in the Spalding County area. As our county and the surrounding areas continue to grow, offering more educational opportunities is vital to maintain and strengthen our workforce, our economy and our community at large.

The purpose of the Griffin-Spalding Partners in Education is to improve the quality of education for all students in the Griffin-Spalding County School System. Adding additional post-secondary opportunities in degree programs would certainly be an asset.

As you move forward with this project, please know that you have our support.

Sincerely,

[Signature]

Teresa Betkowski, chair
Griffin-Spalding Partners in Education
September 5, 2003

Dr. Gerald Arkin
University of Georgia Experiment Station
1109 Experiment Street
Griffin, Georgia 30223

Dear Dr. Arkin:

At the September 2, 2003, Griffin-Spalding County Board of Education meeting, the board approved the enclosed resolution to support the University of Georgia, Griffin Campus, and Gordon College as you develop a program that would allow students to earn a Baccalaureate Degree from the University of Georgia, Griffin Campus. The board and our staff in the Griffin-Spalding County School System want our students to be lifelong learners and positive contributors to our community. As our county and the surrounding areas continue to grow, offering more educational opportunities is vital to maintain and strengthen our workforce, our economy and our community at large.

We are constantly seeking to improve the quality of education for all students in the Griffin-Spalding County School System. Adding additional post-secondary opportunities in degree programs would certainly be an asset.

As you move forward with this project, please know that you have our support.

Sincerely,

Jesse E. Bradley, Jr., Ed.D.
Superintendent
RESOLUTION

University of Georgia, Griffin Campus,
College of Agricultural and Environmental Sciences

WHEREAS, The 2+2 program would allow students to earn a Baccalaureate Degree from the University of Georgia by studying at Gordon College and the University of Georgia, Griffin Campus, College of Agricultural and Environmental Sciences; and

WHEREAS, offering more educational opportunities is vital to maintain and strengthen the workforce, economy and community at large as our county and the surrounding areas continue to grow; and

WHEREAS, the Griffin-Spalding County School System is committed to developing lifelong learners and encourages students to pursue higher education; and

WHEREAS, The University of Georgia, Griffin Campus, College of Agricultural and Environmental Sciences and Gordon College are Partners in Education with the Griffin-Spalding County School System to help students obtain high levels of formal education;

NOW THEREFORE, BE IT RESOLVED that the Griffin-Spalding County Board of Education expresses its deep appreciation and support for the efforts of Dr. Jerry Arkin, the University of Georgia, Griffin Campus, College of Agricultural and Environmental Sciences and Gordon College as they work to implement the 2+2 program.

Adopted September 2, 2003

Mr. Raymond Ray, Chair

Jesse E. Bradley, Jr., Ed.D., Superintendent
Appendix B

Gordon College Student Results

Student Survey
Evaluating the Potential of a Degree Program
between
Gordon College and The University of Georgia,
College of Agricultural and Environmental Sciences,
Griffin Campus
Spring 2004

1. Would you be interested in obtaining an undergraduate degree from The University of Georgia if the junior and senior years were offered on the Griffin Campus and the freshman and sophomore years were offered at Gordon College?
   a. Yes 268
   b. No 107

2. Would you be interested in an undergraduate degree leading to a Bachelor of Science in Agriculture (B.S.A.), in Biological Sciences if it were offered by The University of Georgia on the Griffin Campus?
   a. Yes 133
   b. No 135

3. Which of the following areas in the Biological Sciences appeal to you?
   a. Environmental Resource Sciences 24
   b. General Biological Sciences 75
   c. Entomology 8
   d. Plant Sciences 5
   e. Turfgrass Management 4

4. In which semester would you be interested in enrolling in a proposed program at the Griffin Campus?
   a. Fall 2005 91
   b. Spring 2006 11
   c. Summer 2006 7
   d. Fall 2006 16
1. Would you be interested in obtaining an undergraduate degree from The University of Georgia if the junior and senior years were offered on the Griffin Campus and the freshman and sophomore years were offered at Gordon College or another qualified transfer institution?
   a. Yes  510
   b. No  205

2. Would you be interested in an undergraduate degree leading to a Bachelor of Science in Agriculture (B.S.A.), in Biological Sciences if it were offered by The University of Georgia on the Griffin Campus?
   a. Yes  252
   b. No  450

3. Which of the following areas in the Biological Sciences appeal to you?
   a. Environmental Resource Sciences  211
   b. General Biological Sciences  224
   c. Entomology  63
   d. Plant Sciences  136
   e. Turfgrass Management  83

4. When do you expect to graduate from High School?
   a. Spring 2004  115
   b. Spring 2005  210
   c. Spring 2006  88
   d. Spring 2007  165

5. Your comments about the proposed undergraduate program.
Appendix D

Griffin High School Results

High School Student Survey
Evaluating the Potential of a Degree Program
at The University of Georgia,
College of Agricultural and Environmental Sciences,
Griffin Campus
May 2004

4. Would you be interested in obtaining an undergraduate degree from The University of Georgia if the junior and senior years were offered on the Griffin Campus and the freshman and sophomore years were offered at Gordon College or another qualified transfer institution?
   a. Yes  543
   b. No   257

5. Would you be interested in an undergraduate degree leading to a Bachelor of Science in Agriculture (B.S.A.), in Biological Sciences if it were offered by The University of Georgia on the Griffin Campus?
   a. Yes  367
   b. No   438

6. Which of the following areas in the Biological Sciences appeal to you?
   a. Environmental Resource Sciences  260
   b. General Biological Sciences          280
   c. Entomology                          64
   d. Plant Sciences                      127
   e. Turfgrass Management                59

4. When do you expect to graduate from High School?
   e. Spring 2004                       43
   f. Spring 2005                       223
   g. Spring 2006                       248
   h. Spring 2007                       318

5. Your comments about the proposed undergraduate program.
Appendix E

Griffin Campus
Potential Teaching Faculty Survey
May 2004

1. Would you be willing to teach or co-teach a course in the Griffin Campus based CAES- Biological Sciences Major? (Attached is the tentative list of courses for the Environmental Resource Sciences area of emphasis. Other existing courses within your department could be taught as electives.)

   A. Yes  21
   B. No   6

2. Would you prefer to teach all or only part of a course?

   A. All   8
   B. Part 13

3. Would your course have a laboratory?

   A. Yes  13
   B. No   7

4. What resources other than a classroom space (or laboratory) would be required to teach the course? (check all that apply)

   Teaching Assistant  5
   Computer/overhead projection system  17
   Library resources beyond those currently available  6
   Distance Education facilities (e.g. GSAMS, WebCT)  6
   Computer Lab for students  7
   Vehicle for field trips  8
   Greenhouse or farm space  2
   Annual supply budget, including lab supplies
     Specify $ / course/ semester _____
   Specialized equipment _______________________
   Other (please list)

5. How much preparation time would be required prior to teaching the course?

   A. <4 months  6
   B. 4-8 months 11
   C. 8-12 months 3
   D. >12 months 1
Appendix E continued

6. Which semester or time of year would be best for teaching given the demands of the course and your other responsibilities? (Dates are for the 2005 and 2006 academic years, they may vary approximate, +/- 1 week in future years. They represent class time only, not final exams or registration periods.)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Dates</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>(18 Aug - 9 Dec)</td>
<td>16</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>(10 Jan - 2 May)</td>
<td>10</td>
</tr>
<tr>
<td>Maymester</td>
<td>(17 May - 7 June)</td>
<td>6</td>
</tr>
<tr>
<td>Summer Semester “thru term”</td>
<td>(9 June - 2 Aug)</td>
<td>6</td>
</tr>
<tr>
<td>Summer, Short Session I</td>
<td>(9 June - 6 July)</td>
<td>7</td>
</tr>
<tr>
<td>Summer, Short Session II</td>
<td>(8 July - 2 Aug)</td>
<td>6</td>
</tr>
<tr>
<td>Anytime</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

7. Would you prefer to develop a new course?
   A. Yes 6
   B. No 15

8. If you have a specific idea for a course, please provide a title and a one-sentence description of the content.

   see originals

9. Would you be willing to mentor and/or advise students in the program?
   A. Yes 15
   B. No 11

10. What is the name of your department or unit? (Optional)

11. What is your faculty/staff position type? (Optional)
   Faculty
   Professor
   Assoc. Professor
   Assist. Professor

12. Comments about the program.
   see originals
### Course Descriptions

**Note:** All courses are existing UGA course offerings

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEC 3040 Agribusiness Marketing</td>
<td>3</td>
<td>AAEC 2580 or ECON 2106</td>
<td>Agribusiness marketing for farm products describing and analyzing agribusiness marketing functions to have a comprehensive understanding of the principles of agribusiness marketing.</td>
</tr>
<tr>
<td>AAEC 3060 Principles of Resource Economics</td>
<td>3</td>
<td>AAEC 2580 or ECON 2106</td>
<td>Basic theoretical concepts and analytical tools necessary to evaluate resource use, allocation, and policy. Emphasis is placed upon theoretical applications to natural, rural, and agricultural resources which impact both public sector and private sector economic activities.</td>
</tr>
<tr>
<td>AAEC 3100 Food and Fiber Marketing</td>
<td>3</td>
<td>AAEC 2580 or ECON 2106</td>
<td>Basic concepts of marketing food and fiber and related services and for making essential marketing decisions; approaches food and fiber product marketing as being individual and organization activities aimed at facilitating and expediting exchanges within a set of dynamic environmental factors.</td>
</tr>
<tr>
<td>AAEC 3300 Agribusiness Accounting</td>
<td>3</td>
<td>None</td>
<td>Accounting for agribusiness firms with emphasis on financial statement preparation and analysis of accounting information for managerial purposes. Special emphasis is given to problems of income measurement and asset valuation for agribusiness firms.</td>
</tr>
<tr>
<td>AAEC 3400 Introduction to Agricultural Policy</td>
<td>3</td>
<td>AAEC 2580 or ECON 2106</td>
<td>Domestic and international government policies affecting agriculture, agribusinesses, and rural economies. Policy alternatives aimed at solving economic and environmental problems of the food and agricultural sector are identified and evaluated.</td>
</tr>
<tr>
<td>AAEC 3610-3610L Applied Econometrics</td>
<td>4</td>
<td>AAEC 3580-3580L</td>
<td>Basic applied econometric analysis, including simple regression analysis, hypothesis testing, model selection, and data collection techniques. Applications are an integral part of the course, with students using computers to solve problems common in agricultural and environmental sciences.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>AAEC 3690-3690L</td>
<td>Agribusiness Finance</td>
<td>4</td>
<td>(AAEC 2580 or ECON 2106) and (AAEC 2110 or ACCT 2101)</td>
</tr>
<tr>
<td>AAEC 3980</td>
<td>Introduction to Agribusiness Management</td>
<td>3</td>
<td>AAEC 2580 or ECON 2106</td>
</tr>
<tr>
<td>AAEC 4650</td>
<td>Environmental Economics</td>
<td>3</td>
<td>AAEC 2580 or ECON 2106</td>
</tr>
<tr>
<td>AAEC 4800/6800 - 4800L/6800L</td>
<td>Water Resource Economics</td>
<td>3</td>
<td>AAEC 2580 or ECON 2106</td>
</tr>
<tr>
<td>AESC 4950</td>
<td>Special Problems in Agricultural and Environmental Sciences</td>
<td>1-3</td>
<td>Permission of department</td>
</tr>
<tr>
<td>AESC 4960</td>
<td>Undergraduate Research</td>
<td>2-6</td>
<td>Junior or Senior standing</td>
</tr>
<tr>
<td>BCMB(BIOL)(CHEM) 3100</td>
<td>Intro. Biochemistry &amp; Molecular Biology</td>
<td>4</td>
<td>(CHEM 2211-2211L) or (CHEM 2311H-2311L) or (CHEM 2411-2411L)</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Corequisites</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
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<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CRSS 2830</td>
<td>1</td>
<td>None</td>
<td>Turfgrasses and their management. Emphasis will be placed on how turfgrasses are used in society. Guest speakers from the turfgrass industry (golf course, sports fields, lawn care, etc.) who will discuss management systems and career opportunities.</td>
</tr>
<tr>
<td>CRSS 3060-3060L</td>
<td>4</td>
<td>CHEM 1211-1211L</td>
<td>Soil formation and morphology, physical and chemical properties, soil-water interactions, hydrologic processes and water balance in the landscape, and soil and water quality. Emphasis on landscape management of soil and water resources for both productivity and environmental quality.</td>
</tr>
<tr>
<td>CRSS 3270-3270L</td>
<td>3</td>
<td>None</td>
<td>Turfgrass management practices and systems. Species selection, establishment, irrigation, mowing, fertilization, cultivation, as well as weed, insect, and disease control. Discussions will include the benefits of turfgrass to society and various environmental issues impacting the turfgrass industry.</td>
</tr>
<tr>
<td>CRSS (ENTO) (PATH) 3500</td>
<td>3</td>
<td>CRSS 2830 or CRSS 3270-3270L</td>
<td>Identification and control of turfgrass weeds, insects, and diseases. Emphasis will be placed on management strategies that include both chemical and non-chemical approaches to the prevention and control of common turfgrass pests.</td>
</tr>
<tr>
<td>CRSS 4040/6040</td>
<td>3</td>
<td>PGEN 3580-3580L or permission of major</td>
<td>Fundamental principles and theories utilized in the science of plant breeding and cultivar development and the role breeding plays in crop improvement.</td>
</tr>
<tr>
<td>CRSS 4090</td>
<td>3</td>
<td>CRSS 2830 or CRSS 3270-3270L or permission of major</td>
<td>The effects of the environment on turfgrass growth and quality management strategies for overcoming high and low temperature stress, as well as light and water deficits. Other topics include soil modification, golf green construction, developing fertilization programs, and discussions of various pesticide/environmental issues.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
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</tr>
<tr>
<td>CRSS (ECOL) (ENGR)(FORS) (GEOG)(GEOL) 4170L-6170L</td>
<td>Hydrology, Geology and Soil in Georgia</td>
<td>3</td>
<td>Permission of school</td>
</tr>
<tr>
<td>CRSS 4340/6340</td>
<td>Weed Science</td>
<td>3</td>
<td>CHEM 1211 and CHEM 1211L</td>
</tr>
<tr>
<td>ENTO 3740-3740L</td>
<td>Insect Pest Management</td>
<td>4</td>
<td>BTNY 1220-1220L or BIOL 1104-1104L or BIOL 1108-1108L</td>
</tr>
<tr>
<td>ENTO 3820-3820L</td>
<td>Forest Protection Entomology</td>
<td>2</td>
<td>BIOL 1104-1104L or 1108-1108L</td>
</tr>
<tr>
<td>ENTO 4000-4000L</td>
<td>General Entomology</td>
<td>3</td>
<td>BIOL 1107-1107L and 1108-1108L</td>
</tr>
<tr>
<td>ENTO (BCMB) (BTEC) 4200/6200 Biotechnology</td>
<td>3</td>
<td>BCMB 3100 and GENE 3200, MIBO 3500 or CIBO 3400</td>
<td>Applied aspects of biochemistry and molecular biology in various fields, with emphasis on the use of recombinant DNA methods and protein engineering.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Prerequisites</td>
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</tr>
<tr>
<td>ENTO 4250-4250L</td>
<td>Pesticide Management and Utilization</td>
<td>3</td>
<td>CHEM 1212-1212L</td>
</tr>
<tr>
<td>ENTO 4360</td>
<td>Ornamental Pest Management</td>
<td>3</td>
<td>PATH 3530-3530L and ENTO 4000/6000-4000L/6000L</td>
</tr>
<tr>
<td>ENTO 4400/6400</td>
<td>Insect Behavior</td>
<td>3</td>
<td>ENTO 4000/6000-4000L/6000L</td>
</tr>
<tr>
<td>ENTO 4500-4500L</td>
<td>Biological Control of Pest</td>
<td>3</td>
<td>(BIOL 1107-1107L and 1108-1108L) or (BTNY 1210 and 1220)</td>
</tr>
<tr>
<td>ENTO(CRSS)(PATH)4740</td>
<td>Integrated Pest Management</td>
<td>3</td>
<td>ENTO 3740-3740L or PATH 3530-3530L or CRSS 4340/6340</td>
</tr>
<tr>
<td>FDST 4310/6310</td>
<td>Environmental Microbiology</td>
<td>3</td>
<td>MIBO 3000-3000L or MIBO 3500</td>
</tr>
<tr>
<td>HORT 2000</td>
<td>None</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Prerequisites</td>
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<tr>
<td>-------------</td>
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</tr>
<tr>
<td>HORT 4090</td>
<td>Landscape Management</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>HORT 4440/6440L/6440L Environmental Physiology in Horticulture</td>
<td>3</td>
<td>BIOL 1103-1103L and 1104-1104L or BIOL 1107-1107L and 1108-1108L or PBIO 1210-1210L and 1220-1220L</td>
<td>Effects of environmental factors on growth and physiology of horticultural plants and modification of the plant’s environment to improve crop production.</td>
</tr>
<tr>
<td>MIBO 3500</td>
<td>Intro. to Microbiology</td>
<td>3</td>
<td>BCMB 3100 or BCMB 4020/6020</td>
</tr>
<tr>
<td>PATH 3530-3530L Intro. to Plant Pathology</td>
<td>3</td>
<td>(PBIO 1210-1210L, 1220-1220L) or (BIOL 1103-1103L, 1104-1104L) or (BIOL 1107-1107L and 1108-1108L)</td>
<td>Principles and concepts of plant pathology, including disease development, environmental interactions, microbial biology and life cycles, and disease control strategies. Broad concepts rater than diagnosis and control of specific diseases.</td>
</tr>
<tr>
<td>PGEN 3580</td>
<td>Principles of Genetics</td>
<td>3</td>
<td>(PBIO 1210-1210L and 1220-1220L) or (BIOL 1103-1103L and 1104-104L)or (BIOL 1107-1107L and 1108-1108L)</td>
</tr>
</tbody>
</table>