



93 84-57  
✓

State of New Jersey  
GLASSBORO STATE COLLEGE  
GLASSBORO, NEW JERSEY 08028

OFFICE OF THE PRESIDENT  
(609) 863-5202

December 20, 1985

Lawrence Marcus  
Director of the Office of State Colleges  
Department of Higher Education  
225 West State Street  
Trenton, New Jersey 08625

Dear Larry:

The attached nomenclature change in Biological Sciences was approved by our Board of Trustees on April 10 but inadvertently was not forwarded to BHE for approval at that time. In the transition to our new Vice President, the matter was set aside. Adrian Tinsley has now brought it to my attention.

This change parallels the one recently approved by the Board of Higher Education for our Physical Science degree. Like the B.S. in Physical Science, the B.S. in Biological Sciences both responds and conforms to DHE standards for Baccalaureate education.

Sincerely,

Herman D. James  
President

HDJ:ev  
cc: Adrian Tinsley  
Betty Taylor

Attachment

Proposal Title: BIOLOGICAL SCIENCES DEGREE NOMENCLATURE CHANGE

Sponsor(s): LIFE SCIENCE DEPT. Dept.: LIFE SCIENCE

Check one:  Course  Specialization  Concentration  Achievement Certificate

DEGREE NOMENCLATURE CHANGE Minor Change  Major Program  
(please name: deletion or credit/title/catalog change)

Certification Program  Undergraduate  Graduate  Credit Ex

Step 1 (Department)

Approved 11/13/83  
date  
 Not Approved

Nell Hornstein  
Dept. CC Chairperson

Reviewed 1/17/84  
date

[Signature]  
Chairperson, Dept.

Step 2 (Receipt)

SCC# 83-84-57

Proposal Received 3/15/84  
date

Shirley G. O'Day  
Chairperson, SCC

Step 3 (Division CC)

Reviewed 3/1/84  
date

Approved

Not Approved

Comments:

[Signature]  
Chairperson, Div. Curr. Comm

Step 4 (Academic Dean)

Reviewed 3/6/84  
date

Comments:

[Signature]  
Signature, Dean of Division

Step 5 (SCC)

Open Hearing Date: 4/6/84  Approved by Senate Curriculum Committee 4/12/84 (date)

Returned to sponsor(s) for the following reasons:  
8 additional hours - with approval of the advisor  
Done

Step 6 (Faculty Senate)

Presented to Faculty Senate (date): 4/27/84  Approved  Not Approved

Notification to Vice-President Academic Affairs (date): 4/30/84

[Signature]  
Signature: SCC Chairperson

## BIOLOGICAL SCIENCES DEGREE NOMENCLATURE CHANGE

### I. DETAILS:

- A. Change Requested: Nomenclature change from B.A. in Biological Sciences to B.S. in Biological Sciences
- B. Sponsor: Department of Life Sciences

### II. RATIONALE:

#### A. Statement of "Need" for Such a Change:

The General Education Proposal dated March 31, 1982 (and subsequently approved by the College), presents a framework for program differentiation. Within that context this proposal is submitted.

The Biological Sciences Degree at Glassboro State College is designed for students who want a background in Physics, Chemistry and Mathematics plus a specialization in Biology. This degree provides for those students who plan to do graduate work, attend professional school or enter the teaching profession as well as those who intend to work in industry or government. The free electives are necessary to build additional expertise or for professional education courses for those desiring to teach.

The Bachelor of Science degree is an appropriate and accepted undergraduate degree in Biological Sciences. The present Biological Sciences Program at Glassboro State College has requirements which are consistent with those of other B.S. granting institutions (Table 1). It is important for our recruitment of students and their job placement after graduation that our program lead to a B.S. degree in Biological Sciences.

#### B. Statement of Curricular Effect:

The present degree requirements would not be changed. The distribution of courses within the new degree model is attached (Table 2).

III. RESULTS OF CONSULTATION:

Since the proposed degree nomenclature change does not affect other departments, consultation was limited to the faculty of the Department of Life Sciences, the Dean of Liberal Arts and Sciences, and the Office of Admissions. The faculty of the Department of Life Sciences unanimously approved the proposed change. A letter of support from John Davies, Director of Admissions, is attached.



State of New Jersey  
GLASSBORO STATE COLLEGE  
GLASSBORO, NEW JERSEY 08028

OFFICE OF ADMISSIONS

February 8, 1984

Dr. Andrew Prieto  
Chairperson, Life Sciences Department  
Glassboro State College  
Glassboro, NJ 08028


Dear Dr. Prieto:

I wish to add the Office of Admissions' support to your department's proposal for the Bachelor of Science degree in Biology. The Admission's staff support is based on feedback from prospective students with whom we come in contact.

The serious prospective Biology major wants the demanding requirements of a B.S. program and the recognition earning a B.S. degree gives one. Whether preparing oneself for graduate or professional school or to move directly into a career in the field, the demanding nature and quality of a B.S. in Biology is widely recognized. Students want this recognition.

We feel the change will improve our efforts to recruit Biology students. Please let me know if I can provide additional support to your proposal.

Sincerely yours,

  
John G. Davies  
Director of Admissions

JGD/jb

BIOLOGY DEGREE NOMENCLATURE CHANGE FROM  
B.A. IN BIOLOGY TO B.S. IN BIOLOGY

Rationale:

The Bachelor of Science degree is the accepted and appropriate undergraduate degree in Biology. Data have been obtained which prove this fact. The present Biology program at Glassboro State College has requirements which are consistent with those of other B.S. granting institutions. It is very important for our recruitment of students and their job placement after graduation that our program lead to a Bachelor of Science degree in Biology.

Impact on Program/Department Curriculum:

The present Biology major requirements for graduation would not be changed. The present strong General Education requirements of Glassboro State College would be followed. The total number of Biology-related sciences and mathematics courses required in different B.S. programs is very similar. This results from these institutions following the rather specific recommendations of the American Institute of Biological Sciences.

GLASSBORO STATE COLLEGE REQUIREMENTS FOR BIOLOGY DEGREE

Biology Courses Required: 38 s.h.

Biology I	4
Biology II	4
Laboratory Courses	<u>30</u>
	38

Mathematics Required: 4 s.h.

Calculus I	4
------------	---

Physics Required: 8 s.h.

Physics I	4
Physics II	<u>4</u>
	8

Chemistry Required: 16 s.h.

Inorganic Chemistry I	4
Inorganic Chemistry II	4
Organic Chemistry I	4
Organic Chemistry II	<u>4</u>
	16

TOTAL SEMESTER HOURS REQUIRED: 66 s.h.

TABLE 1

B.S. IN BIOLOGICAL SCIENCES PROGRAMS AT SELECTED INSTITUTIONS

<u>Institution</u>	<u>Degree</u>	<u>Major Requirements</u>
Glassboro State College	*B.S. in Biological Sciences	8 s.h. General Biology 8 s.h. Physics 8 s.h. Inorganic Chemistry 8 s.h. Organic Chemistry 5 s.h. Calculus 30 s.h. Biology  plus 14-19 s.h. to complete a specialization in either chemistry, physics or earth science  TOTAL: 67-70 s.h.
Fairleigh Dickinson University	B.S. in Science	8 s.h. Chemistry 8 s.h. Physics 8 s.h. Biology 8 s.h. Calculus 4 s.h. Computer Science  plus 16 upper division courses in a single concentration area of science  plus 12 upper division courses in any area of science  TOTAL: 64 s.h.
Monmouth College	B.S. in Biological Science	8 s.h. Chemistry 8 s.h. Physics 8 s.h. Biology 8 s.h. Calculus and Analytical Geometry  plus 14 s.h. in upper level Biology  TOTAL: 46 s.h.
Millersville State College	B.S. in Biology	8 s.h. Physics 12 s.h. Mathematics 34 s.h. Biology  TOTAL: 54 s.h.

<u>Institution</u>	<u>Degree</u>	<u>Major Requirements</u>
Kings College	B.S. in Biological Sciences	60 Total Hours in science and mathematics including one year of biology, chemistry, mathematics and physics with 40 s.h. distributed in a major sequence either Biology/Physics or Biology/Chemistry

TABLE 2

PROPOSED B.S. IN BIOLOGICAL SCIENCES AT GLASSBORO STATE COLLEGE

Physical Education: 3 s.h.

General Education: 48 s.h.

Communications (6)

Science and Mathematics (15)

Required: Inorganic Chemistry I and II  
Physics I

Social and Behavioral Sciences (12)

History, Humanities and Language (12)

Arts (3)

Major Requirements: 62 s.h.

Common Core: (24)

Organic Chemistry I and II

Physics II

Biology I and II

Calculus I

30 s.h. in Biology

8 additional s.h. in Biological, Physical and/or  
Mathematical Sciences.

Free Electives: (15)

TOTAL: 128 s.h.

## REFERENCES

1. Undergraduate Studies Bulletin, 1982-83, Fairleigh Dickinson University
2. 1982-84 Undergraduate and Graduate Catalog, Monmouth College
3. 1982-84 Programs and Policies, Millersville State College
4. 1982-83 College Bulletin, Kings College