

**Library Resource Form Required for New Non-Gen-Ed**

**Submission Deadlines: Fall - October 11, 2005 Spring - February 14, 2006**

**TITLE** Philosophy of Science Requirement for Chemistry Majors

Sponsor(s) Robert Newland e-mail: newland@rowan.edu

e-mail:

e-mail:

**DEPARTMENT** Chemistry & Biochemistry

**College** CLAS

If **LAS-check:** \_\_\_\_\_ History/Humanities \_\_\_\_\_ Social/Behavioral Sciences

XXXX Math/Science

XXXX UNDERGRADUATE GRADUATE

\_\_\_\_\_ New non gen-ed

\_\_\_\_\_ Short-Term non g

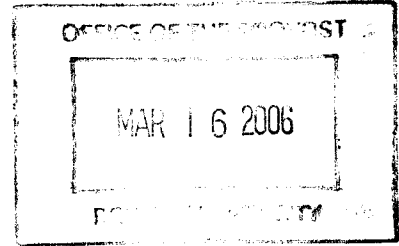
XXXX Minor curricular c

\_\_\_\_\_ Existing non gen-

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\_\_\_\_\_ Major

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Newland  
Harrold

: program

**Signatures Required: representing approval before submission to Office of the Senate**

Department Chair:

*Robert Newland*

Date: 10/3/05

Department CURRICULUM Chair:

*Robert Newland*

Date: 10/3/05

Academic DEAN:

*[Signature]*

Date: 10-5-05

COLLEGE CURRICULUM COMMITTEE:

Open Hearing Date:

11/10/2005

Approved

Not Approved

Signature: College Curriculum Chair

*[Signature]*

Signature: SENATE CURRICULUM CHAIR

Date: 10/3/05

Comments:

Signature: Executive Vice President/Provost:

*[Signature]*

Date: 3/16/06

Approved: ✓

Not Approved:

Signature: REGISTRAR

*[Signature]*

Date: 3/21/06

Course Description Received & Approved  
Hegis Taxonomy & Course

#

Notification Forward:

- SCC CHAIR
- IR
- CAP
- Registrar

- Academic Dean
- Department Chair
- VP/Student Affairs
- Other-

Trans. 3/29/06

## **Minor Curricular Change Proposal**

### **Philosophy of Science for Chemistry Majors**

Department of Chemistry and Biochemistry

#### 1. Details

a. Change requested:

Replace a free choice in the History, Humanities, Languages general education requirement to specify the Philosophy of Science course (1509.369).

b. Sponsors:

Robert Newland, Department of Chemistry and Biochemistry.

#### 2. Rationale

a. Need:

The chemistry curriculum was designed following the recommendations of the American Chemical Society Committee on Professional Training that supplies our BS in Chemistry its National Approval. In these recommendations there is no mention of the goal of a broad understanding of the interaction of science and society. However, chemistry and the technology it generates profoundly influence society and societal understanding of chemistry can equally affect the field's accomplishments. The one course that could ensure students have a fundamental understanding of these important relationships is the Philosophy of Science. Students are already strongly advised to enroll in this course but many miss this opportunity.

In addition there is no Writing Intensive course specified by the curriculum and requiring this course would deal with this omission.

b. Statement of Curricular effect:

The largest effect will be felt by the Department of Philosophy and Religion. However, since we already recommend this course the additional student count should require only one extra section each year at most. We expect students to enroll in this course in their junior year so the initial effect will not occur until the class of 2010 reaches their junior year in 2009.

#### 3. Results of consultation:

A letter from the Chair of the Department of Philosophy and Religion is attached.

September 28, 2005

Professor Robert Newland  
Chair, Department of Chemistry  
Rowan University

Dear Bob,

Our department has considered your decision to require Philosophy of Science of all of your majors. We are unanimously agreed that this would be a good thing for our department and our students as well as for your students. We understand that adding this requirement will generate a demand for at least 15 additional seats in the class every year. It will mean adding a section. Matt Lund, who teaches the course for us, is eager to have more scientists in the class, and is willing to teach two sections of it in one semester.

I trust that as demand for this course grows, we will have your support in the future in seeking an additional hire to meet the demand.

Sincerely,

David Clowney  
Chair, Department of Philosophy and Religion

**Rowan University**  
Campbell Library

Library Resources Form

**Department/School:** College of Liberal Arts & Sciences/ Dept. of Philosophy & Religion

**Proposed by:** Dr. Robert Newland, Dept. of Chemistry & Biochemistry

**Program Title:** Requiring course 1509.369 "Philosophy of Science – WI" as part of both the Chemistry and Biochemistry curricula (previously only recommended)

**Anticipated Date for Course/Program Offering:** Fall 2009

**Resources that should be acquired**

No additional resources are needed at this time.

**Resources available in the Campbell Library**

The library has 339 books under the subject heading "Science Philosophy", of which 33 were published within the last 5 years.

**List key periodical resources**

Campbell Library subscribes to the online journal database JStor, which includes archival (back issues up to about 5 years ago) full-text access to 9 key journals in the field of history and philosophy of science: British Journal for the Philosophy of Science; Isis (the journal of the History of Science Society); Notes and Records of the Royal Society of London; Osiris; Philosophy of Science; Proceedings of the Biennial Meeting of the Philosophy of Science Association; Science and Technology Studies; Science, Technology and Human Values; and Social Studies of Science. Current access to Isis, Osiris, and Philosophy of Science is available through Academic Search Premier.

Campbell Library also has online access to Humanities Full-Text from Wilson, which includes current access to philosophical journals such as The Humanist, Diogenes, and the Journal of Medicine and Philosophy.

**Librarian remarks**

Given the library's current book holdings and online journal access, the plan to make this course required for Chemistry and Biochemistry majors can be supported.

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Denise A. Brush  
Library Liaison  
9/20/05



February 21, 2006

To Whom It May Concern:

This office supports the curriculum proposals SCC-05-06-806, *Philosophy of Science Requirement for Biochemistry Majors*, SCC-05-06-807, *Philosophy of Science Requirement for Chemistry Majors* and SCC-05-06-821, *Revision of the Introductory Biology Curriculum and Biology Major*, which also includes the addition of Philosophy of Science as a requirement.

With respect to staffing in the department of Philosophy and Religion a new line has been and will remain a high priority until it is filled. However, no guarantee can be made at this time.

Sincerely,

J.A. Harper  
Dean

JAH/jds

Office of the Dean

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