

1907.470
(2)

Glassboro State College Senate Curriculum Committee

Approval Form

Proposal Title: Title Change: From: Organic Qualitative Analysis
To: Organic Spectroscopic Analysis

Sponsor(s) Dr. Robert J. Newland Dept.: Physical Sciences Ext. 6337

Check one: Course Specialization Concentration Minor Achievement Certificate
 Certification Program Major Program Minor Change Credit Hour: From: 3 To: 4
(please name deletion or credit/title/catalog change)

Undergraduate Graduate 4 Credit Hours

<p>Step 1 (Department)</p> <p><input checked="" type="checkbox"/> Approved _____ Date</p> <p><input type="checkbox"/> Not Approved</p> <p><u>C.W. Schultz</u> Dept. CC Chairperson</p> <p><input checked="" type="checkbox"/> Reviewed <u>10-8-91</u> Date</p> <p><u>C.W. Schultz</u> Dept. Chairperson</p>	<p>Step 2 (Receipt)</p> <p><input type="checkbox"/> SCC# <u>41-1034</u></p> <p>Proposal Received _____ Date</p> <p>_____</p> <p>SCC Chairperson</p>	<p>Step 3 (School CC)</p> <p>Reviewed <u>Nov. 7, 1991</u></p> <p><input checked="" type="checkbox"/> Approved <input type="checkbox"/> Not Approved</p> <p>Comments: <u>Minor</u> <u>Suggestions made to</u> <u>Dr. Newland re: number</u> <u>of students effort and</u> <u>number of credits needed to</u> <u>graduate.</u></p> <p><u>[Signature]</u> School Curr. Comm. Chairperson</p>
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Step 4 (Academic Dean)

Recommend
 Not Recommend
 Conditionally Recommend (see comments)

Reviewed 11/1/91 Date

Comments: _____

_____ Signature, Dean of School

Step 5 (SCC)

Open Hearing 12/13/91 Date Approved by Senate Curriculum Committee 12/13/91 Date

Returned to sponsor(s) for the following reasons:

Step 6 (Senate)

Presented to Senate 12/13/91 Date Approved Not Approved

Notification to Executive Vice-President/Provost 1/20/92 Date [Signature] Signature SCC Chairperson

Step 7 (Executive V.P./Provost)

Received _____

Date

If no, reasons are as follows:

Approved Yes No

Student credit hours _____

Faculty load hours _____

Equalized credit hours _____

Official copy and approval sheet filed _____
Date

[Faint signature and illegible text]

Signature, Executive Vice-President/Provost

Registrar

Approved course description received 27 Feb '92
Date

Hegis Taxonomy and Course Number assigned 3 to 4 credits name chg.

B.F. Kelsey for DB
Signature, Registrar

Date

Notification forwarded:

- Senate Curriculum Committee Chairperson
- Department Chairperson(s)
- Academic Dean(s)
- Registrar
- Sponsor(s)

MINOR CURRICULAR CHANGE

1. Details (course # 1907.470)

a. Changes requested

Title change:

From: Organic Qualitative Analysis

To: Organic Spectroscopic Analysis

Credit Hour change:

From: 3

To: 4

Catalog Description change:

From: This is a laboratory course with class discussion on the separation and identification of organic compounds. It uses both classical and instrumental techniques in compound structure determination. Lectures emphasize IR, NMR and mass spectra. This course is generally offered in spring semesters of odd-numbered years.

To: This is a laboratory course with class discussion on the separation and identification of organic compounds. Emphasis is upon modern instrumental methods of separation and analysis such as GC, LC, IR, NMR, UV-Vis and GC/MS.

b. Sponsor Dr. Robert J. Newland

2. Rationale

a. Need for the changes:

Chemical analysis has gradually changed over the decades to include more instruments and fewer wet-chemical methods. Sample sizes have decreased substantially and detectable limits have dropped. Costs for analysis have risen substantially as well. The American Chemical Society (ACS) Committee on Education has recommended that course work reflect these changes. To do so we have over the past six years purchased many new instruments and the Chemistry Program now rivals the best equipped undergraduate programs in the nation. These new instruments provide new experimental possibilities and require additional time to discuss the techniques. Thus one additional credit is needed for the course to fulfill its purpose of introducing these modern instrumental techniques to our students. The name and catalog description changes simply make each more accurate.

b. Curricular effect

The course was previously an advanced elective for BS Chemistry Majors and BS Physical Science Majors. It will remain so. Each semester the Department offers two advanced courses for our students. This is in accord with ACS recommendations. Organic Spectroscopic Analysis will be offered every other year as part of this general plan replacing the old course. The additional credit will have little effect on our overall BS degree requirements since the course is an optional elective.

3. Results of consultation

No other parties needed to be consulted since the changes affect only our majors when they are juniors or seniors.