

Senate Transmission

On December 2, 2003, the Undergraduate Council reviewed and approved the following:

New Course

CHE 295 – Organic Chemistry Workshop (1)

Peer-led team problem solving. Two-hour workshop offered on a pass-fail basis only.
[Enrollment in CHE 230 need not be accompanied by enrollment in CHE 295.]

Prerequisite: Concurrent registration in CHE 230 required.

CHE 297 – Organic Chemistry Workshop II (1)

Peer-led team problem solving. Two-hour workshop offered on a pass-fail basis only.
[Enrollment in CHE 232 need not be accompanied by enrollment in CHE 297.]

Prerequisite: Concurrent registration in CHE 232 required.

B.S./B.A. in Arts and Sciences with a major in Philosophy

Program changed to indicate that Philosophy majors should be able to take PHI 520 and PHI 549 to fulfill the area requirements as specified by Groups A, B, and C. Not having the two courses in the appropriate groups was an oversight which is being corrected by this change.

**UNIVERSITY OF KENTUCKY
APPLICATION FOR NEW COURSE**

1. Submitted by College of Arts and Sciences Date May 5, 2003
Department/Division offering course: Chemistry
2. Proposed designation and Bulletin description of this course:
- (a) Prefix and Number CHE 297 (b) Title* Organic Chemistry Workshop II
*NOTE: If the title is longer than 24 characters (including spaces), write
a sensible title (not exceeding 24 characters) for use in transcripts: Organic Chem Workshop II
- (c) Lecture/Discussion hours per week 0 (d) Laboratory hours per week 2
- (e) Studio hours per week 0 (f) Credits 1
- (g) Course description: **Peer-led team problem solving. Two-hour workshop offered on a pass-fail basis only. [Enrollment in CHE 232 need not be accompanied by enrollment in CHE 297.]**
- (h) Prerequisites (if any): Concurrent registration in CHE 232 required
- (i) May be repeated to a maximum of N/A credits (if applicable)
4. To be cross-listed as: N/A
Prefix & No. Signature, Chairman, cross-listing department
5. Effective Date: Spring 2004 (semester and year)
6. Course to be offered (a) Fall (b) Spring X (c) Summer _____
7. Will the course be offered each year? (a) Yes X (b) No _____
[Explain if not annually):
8. Why is this course needed:

This course is offered Spring 2003 under the temporary course number A&S 101. A permanent Chemistry course number is now required because permanent funding is now in place. The course is modeled after the successful MathExcel program.

The attached syllabus was distributed to students in the course in Fall 2002. Students in the course are divided into small groups (about 8 students per group) with an experienced undergraduate leader. At each session, students work on a set of problems (examples attached), which are related to the lecture material. The problem sets are prepared by a member of the Chemistry faculty, but neither students nor leaders have an answer key. This procedure encourages the group to focus on the process of solving the problems using its own resources. The problem sets are not graded. Course grades depend on attendance and participation. No unexcused absences are allowed and full participation in each session is expected.

These workshops are useful to many students who need more individual attention than is possible in the large lecture sections of CHE 232. In the past year students who have selected this course have demonstrated significantly better performance on CHE 232 examinations than those who have not. However, this course is neither appropriate or required for all students in CHE 232.

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9. (a) By whom will the course be taught? **Undergraduate workshop leaders and faculty supervisors.**
(b) Are facilities for teaching the course now available? (a) Yes X (b) No
If not, what plans have been made for providing them?

**The groups will meet in small rooms with movable chairs, ideally situated around one or several tables.
We will locate suitable rooms.**

10. What enrollment may be reasonably anticipated?

Three sections with a capacity of 16 students per section are planned for Spring 2004. These should fill.

11. Will this course serve students in the Department primarily? (a) Yes (b) No X

Will it be of service to a significant number of students outside the Department?
If so, explain. (a) Yes X (b) No

It will serve the large number of students who require CHE 232 for their majors.

Will the course serve as a University Studies Program course? (a) Yes (b) No X

If yes, under what Area? _____

12. Check the category most applicable to this course:

traditional; offered in corresponding departments elsewhere;

 X relatively new, now being widely established

not yet to be found in many (or any) other universities

13. Is this course applicable to the requirements for at least one degree or certificate
at the University of Kentucky? (a) Yes (b) No X

14. Is this course part of a proposed new program? (a) Yes (b) No X
If yes, which?

15. Will adding this course change the degree requirements in one or more programs?*(a) Yes (b) No X
If yes, explain the change(s) below:

16. Attach a list of the major teaching objectives of the proposed course, outline and/or reference list to be used.

17. If the course is a 100-200 level course, please submit evidence (e.g., correspondence) that the Community College
System has been consulted.

18. Within the Department, who should be contacted for further information about the proposed course?

Name/e-mail: Robert D. Guthrie Phone Extension: 7-7078

*NOTE: Approval of this course will constitute approval of the program change unless other program modifications are proposed.

UNIVERSITY OF KENTUCKY
APPLICATION FOR NEW COURSE

Signatures of Approval:

Boyd E. Haley

Department Chair

David Leep

Dean of the College

Rebecca Huggs

*Undergraduate Council

*University Studies

*Graduate Council

*Academic Council for the Medical Center

*Senate Council (Chair)

5/5/03

Date

OCT 21 2003

Date

AUG 15 2003

Date of Notice to the Faculty

12-03-2003

Date

Date

Date

Date

Date of Notice to Univ. Senate

*If applicable, as provided by the Rules of the University Senate

ACTION OTHER THAN APPROVAL:

CHE 295 and 297: Organic Workshop

Fall 2003 and Spring 2004

Teaching Objectives for Courses:

These courses are for students who want to improve performance in CHE-230 and CHE-232 respectively. Problem sets will be handed out and each week a small (approximately 8 students) group will meet with an experienced undergraduate leader. The objective will be to make students think about problems in organic chemistry which are representative of the type of problems they will encounter on examinations in CHE-230 and CHE-232. The group leaders are expected to be neither teachers nor expert chemists, and they will not be provided with answers to the problems. The emphasis will be on developing methods of problem solution. The best way to learn a subject is to teach it to someone else.

Student Learning Outcome:

This system was tried as A and S 101 in Fall 2002 and Spring 2003. The success rate in CHE-230 and CHE-232 was better for students enrolled in A and S 101 than for those who were not enrolled. The successful students didn't get better grades because they were smarter, and it's not because they were spending extra time working problems. We believe they learned chemistry better in their small support groups because they were learning from their peers and because they were teaching their fellow students.

Grading:

Organic Workshop will meet once a week for two hours. It is a one-credit, pass-fail graded course. Students who participate fully in all sessions will receive a grade of P (Pass). Full participation means coming to all class sessions prepared to work the assigned problems and working them with the group during the two-hour meeting. The problems will not be graded. Students who have one or more unexcused absences or who do not participate fully will receive a grade of F (Fail).

Preparation and Outside Work:

Students are expected to attend lectures in CHE-230 or CHE-232, to read the textbook, and to work problems in the textbook. Organic Workshop sessions are not a substitute for outside work in CHE-230 or CHE-232.

Instructors:

The undergraduates who lead these sections will be selected because they have done outstanding work in their chemistry courses and because of their perceived leadership ability. The weekly problem sets will be supplied by the faculty member in charge.

To: smcare0@uky.edu, Carolyn.O'Daniel@kctcs.edu
From: Joyce Cambron <chm116@uky.edu>
Subject: Two New Courses
Cc:
Bcc:
Attached: C:\Data\Courses\New Courses\CHE 295-CRS_NEW.pdf; C:\Data\Courses\New Courses\CHE 297-CRS_NEW.pdf;

The UK Chemistry Department is proposing two new courses:

CHE 295

CHE 297

The pdf files are attached.

Thanks.

Joyce Cambron
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