

PROCESS A NON-GENERAL EDUCATION - CURRICULUM PROPOSAL

SCC #03-04- 7/12/04

LIBRARY RESOURCE FORM REQUIRED

Deadlines

October 3, 2003 to be implemented Fall 2004 ~ February 13, 2004 to be implemented Spring 2005

PROPOSAL TITLE: Minor change - Unit Operations Laboratory

Sponsor(s): K. Dahm and E-Mail: Dahm@sunysp.edu Ext: 5318

Chemical Engineering, Susquehanna Comm E-Mail: _____ Ext: _____

DEPARTMENT: Chemical Engineering

COLLEGE: Engineering

If Liberal Arts & Sciences CHECK : History/Humanities Math/Sciences Social/Behavioral Sciences

UNDERGRADUATE GRADUATE

THE ATTACHED **NON-GEN-ED** PROPOSAL IS BEST DESCRIBED BY THE ITEM(S) CHECKED

- New non-gen-ed course
- Short-term non-gen-ed course
- Minor curricular changes (fewer than three) to:
 - Existing non-gen-ed course
 - Non-gen-ed degree requirements
 - Major
 - Minor, specialization, concentration, track, certificate program

THE FOLLOWING SIGNATURES REPRESENT APPROVAL

Department Chair: [Signature] Date: 2-9-04

Department Curriculum Chair: [Signature] Date: 2.02.04

Academic Dean: [Signature] Date: 2/4/04

COLLEGE CURRICULUM COMMITTEE

OPEN HEARING Date: 3/4/04 Approved Not Approved

COLLEGE CURRICULUM CHAIR: [Signature]
Senate Curriculum Chair Signature: [Signature] Date: Senate Announcement _____

Comments: _____

EXECUTIVE VICE PRESIDENT/PROVOST Signature: [Signature] Date: 6/16/04

Approved Not Approved

REGISTRAR

Date: 6/28/04 Course Description Received & Approved ~ Hegis Taxonomy & Course #: _____

Registrar Signature: [Signature]

NOTIFICATION FORWARD

- SCC Chair
- Academic Dean
- Department Chair
- Registrar
- IR
- CAP
- VP Student Affairs
- Others

Trans. 7-12-04

Minor Change- Unit Operations Laboratory

1. Details:

- a) **Change:** Remove senior level courses from the prerequisite list for Unit Operations Laboratory I (0906.403).

Current Prerequisites

Chemical Process Component Design (0906.401) and Transport Phenomena (0906.402)

New Prerequisites

Chemical Engineering Thermodynamics (0906.310), Separation Processes (0906.314) and Chemical Reaction Engineering (0906.316)

- b) **Sponsor:** Dr. Kevin Dahm and Chemical Engineering Curriculum Committee
- c) **Credit Hours:** 2 semester hours
- d) **Course Level:** Undergraduate
- e) **Curricular Effect:** Requirement for Chemical Engineering students
- g) **Suggested Time/Scale of Implementation:** Fall 2004
- h) **Resources:** No additional resources will be needed for this minor change.

2. Rationale:

Unit Operations Laboratory (UO Lab) used to be a 3-unit senior level course offered in the spring semester. Last year, curriculum proposals to split the UO Lab into a pair of 2-unit courses was approved. This additional unit provides more class time to integrate emerging technologies into the UO Lab without the need to remove coverage of traditional core unit operations such as distillation, absorption and chemical reactors. Traditional unit operations are now covered during the fall in UO Lab I and emerging technologies are covered in UO Lab II.

However, the current prerequisites are senior level courses offered in the fall, which in the new model are taken concurrently with UO Lab I, and are no longer appropriate prerequisites. The new prerequisites are second semester junior level courses that are directly relevant in the operation and analysis of the traditional unit operations covered in the first UO Lab course under the new model.

3. *Results of Consultations:*

This change will not impact any other engineering program or science program.

Campbell Library
Library Resource Form

College: College of Engineering

Proposed by: Dr. Kevin Dahm

Course Title: Unit Operations Laboratory (minor changes)

Anticipated Date for Course/Program Offering: In Progress

Part B: Resources that should be acquired

No additional resources are needed at this time.

Part C: Resources available in Campbell Library

To enhance our holdings in engineering and the sciences, the library subscribes to approval plans to capture new titles, both from general academic publishers (trade/technical) and university presses. On average, these plans provide approximately 2,100 titles yearly, at a total annual cost of \$132,578 (not every title in the university press plan is related to science and technology).

Part D: List key periodical resources

Campbell Library is fortunate to have access to online journal databases in a large number of disciplines, including engineering and the sciences. Specific examples include:

- Academic Search Premier (EBSCO)
- American Society of Civil Engineers
- American Society of Mechanical Engineers
- Applied Science and Technology Abstracts
- Elsevier (ScienceDirect)
- Engineering Village (Compendex)
- General Science Fulltext
- Institute of Physics Fulltext Publications

Other online databases not listed also provide access to journals, many fulltext, in biology, chemistry, and electrical engineering.

Part E: Librarian remarks

Given the library's commitment to the two approval plans described above, as well as to several of the major online journal databases, the library supports this proposal.

G.P. 2/05/04

