

CURRICULUM PROPOSAL FORM 2001-2002

NON-GENERAL EDUCATION PROCESS A

*DEADLINES: Deadline dates for 2001/2002 submissions: Regular proposals: October 19, 2001 to be implemented in Fall 2002; Short-Term proposals: December 7, 2001 to be implemented in Fall, 2002; Regular proposals February 15, 2002 to be implemented in Spring, 2003; March 22, 2002 for short-term courses to be implemented in Spring 2003.

PROPOSAL TITLE: Advanced Environmental Treatment Process Principles (0908.512)

SPONSOR(S): Kauser Jahan x5323

name change

DEPARTMENT: Civil and Environmental Engineering

COLLEGE: Engineering

IF LAS CHECK ONE: History/Humanities Math/Sciences Social/Behavioral Sciences

Check one: 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

DEPARTMENT

(Signature indicates approval)

Douglas A. Gray 3/15/02

Dept. Curriculum Chair / Date

Kauser Jahan 2/15/02

Dept. Chairperson / Date

ACADEMIC DEAN

Approved

Not Approved

Comments: *No additional resources in excess of base budget funding are required.*

Dean's Signature/Date *Dianne Dore 7/22/02*

COLLEGE CURRICULUM COMMITTEE

Date of open hearing (if necessary) 4/26/02 Approved _____ Not Approved _____

Comments:

Signature of College Chair/Date: Kevin O'Doherty

UNIVERSITY CURRICULUM COMMITTEE

Date Received/Processed _____

Comments:

Curriculum Chair Signature Shelly C. Green 7/25/02 Date Announced At
Senate _____ 7/17/02

EXECUTIVE VICE PRESIDENT/PROVOST

Approved _____ Not Approved _____ If no, reasons are as follows:

Student Credit Hours _____ Faculty Load Hours _____ Equalized Credit Hours _____

Official Copy & Approval Sheet Filed (Date): _____ Executive VP/Provost
Signature/Date [Signature] 7/25/02

REGISTRAR

Date Approved Course Description Received _____ Hegis Taxonomy & Course Number

Assigned 0905-512

Registrar Signature/Date [Signature] 7/25/02

NOTIFICATION FORWARD

Senate Curriculum Committee Chairperson

Academic Dean(s)

Department Chairpersons

Registrar

Sponsor(s)

(CIP)
Shut-Roch
11-22-02 TM

Course Proposal:

422

1. Details:

- Course Title: **Advanced Environmental Treatment Process Principles (0908.512)**
- b) Sponsor: Dr. Kauser Jahan, Civil Engineering, x5323
- c) Credit Hours: 3 credit hours
- d) Course Level: Graduate, (0908.512)
- e) Prerequisites: Graduate standing or permission of instructor.
- f) Suggested Time: One section during fall semesters
- g) Curricular Effect: None – This proposal modifies an existing course (**Physicochemical Unit Processes 0908.512**).
- h) Resources (No change from current course)
- Faculty: Existing faculty can teach this course.
 - Library: Library acquisitions will be required.
 - Equipment: Existing laboratory facilities and equipment are adequate for this course.
 - Computers: Computer laboratory access will be required.
- i) Library Resources: Library acquisitions will be required at same level as current course.

2. Rationale:

Minor modifications to an existing course (**Physicochemical Unit Processes, 0908.512**) are required because of proposed curriculum changes (see curriculum modification proposal). The course description will be modified, as the new curriculum requires a new sequence of environmental topics.

3. Essence of the Course

a) Objectives:

Upon completion of the course, students will be familiar with:

Fundamentals of Physicochemical Processes in Environmental Engineering such as Adsorption, Coagulation/Flocculation, Filtration, Sedimentation, Disinfection, Ion Exchange, Chemical Oxidation, Corrosion and Membranes

b) Topical Outline:

The topical outline of the course may vary to some extent depending on the interests of the instructor and the students, and on advances in environmental engineering technology. The topics initially planned include:

Introduction to Physicochemical Processes
Adsorption
Filtration
Coagulation/Flocculation
Sedimentation
Disinfection,
Ion Exchange
Chemical Oxidation
Corrosion
Membranes

c) Evaluation and Grading Procedure of Students:

Student grades will be based on individual and/or group examinations, individual homework, design projects, and lab reports. **In addition, students will complete a major research paper on an approved contemporary topic in a treatment process.**

d) Course Evaluation:

The proposed course will be assessed based on student evaluations and curriculum review by engineering faculty.

4. Results of Consultations:

The proposed course is a minor modification an existing course entitled “**Physicochemical Unit Processes (0908-512)**” which is part of the current Engineering Curriculum approved by the University Senate. Consultations were submitted with the original proposal as specified by the Curriculum Committee.

Catalog Description:

Advanced Environmental Treatment Process Principles (0908.512)

Prerequisites: Graduate standing or permission of instructor.

(Offered every other fall semester) Topics in Fundamentals of Physicochemical Processes in Environmental Engineering such as Adsorption, Coagulation/Flocculation, Filtration, Sedimentation, Disinfection, Ion Exchange, Chemical Oxidation, Corrosion and Membranes



500407-02-034

Biological Sciences

TO: Dr. Jeff Everett
Civil and Environmental Engineering

FROM: Dr. Patricia Mosto
Chair and Professor, Biology Department

RE: Changes to Civil and Environmental major

DATE: October 7, 2002

A handwritten signature in dark ink, appearing to be "PM", located to the right of the "FROM:" line.

Jeff, thanks for the opportunity to review the changes you have proposed for the Civil and Environmental Engineering B.S. degree. I have carefully reviewed your proposal and I support your changes. This changes will not have any significant impact in the Biological Sciences program and we do not have any objection to them.

Cleary, Douglas B.

From: Everett, Jess W.
Sent: Wednesday, October 09, 2002 10:54 AM
To: Cleary, Douglas B.
Subject: FW: Consultations



TEXT.htm

Doug,

Will this do? If so I'll print the email and give it to you.

Jess

-----Original Message-----

From: Dahm, Kevin D.
Sent: Wednesday, October 09, 2002 10:50 AM
To: Everett, Jess W.
Subject: Re: Consultations

I am writing this letter in support of the several related curriculum proposals put forward last year by the Civil and Environmental Engineering department, refining their curriculum and consolidating the two parallel tracks into one. I will not attempt to comment on the proposals individually as I have already endorsed them as chair of the college curriculum committee. I am writing this letter simply to confirm that these changes were discussed at a chemical engineering department meeting and my department supports them unanimously. Chemical engineering students on occasion have interest in taking civil engineering courses as electives but these opportunities remain available with the proposed changes. The civil engineering students will be well served by these changes and we support their implementation.

Sincerely,
Kevin Dahm

Kevin Dahm
Assistant Professor of Chemical Engineering
Rowan University
dahm@groupwise.rowan.edu
(856) 256-5318