Received

PROPOSAL SCC #01-02- 423

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: Environmental Treatment Process Principles (CE 371.2)

SPONSOR(S): Kauser Jahan x 5323

DEPARTMENT: Civil and Environmental Engineering

COLLEGE: Engineering

IF LAS CHECK ONE: ___ History/Humanities ___Math/Sciences ___Social/Behavioral Sciences

Check one: _X_ 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

_X_Minor curricular changes (fewer than three) to:

__X__existing non-gen-ed course
_____non-gen-ed degree requirements
_____major
_____ minor, specialization, concentration, track, certificate program

DEPARTMENT

(signature indicates approval)

Dept. Curriculum Chair / Date 2/15/02

Dept. Chairperson / Date Kauser Jahan 2/15/02

ACADEMIC DEAN

Approved ✓ Not Approved ___

Dean's Signature/Date Dianne Ward 4/22/02

Comments: No additional resources in excess of base budgeting are required.

COLLEGE CURRICULUM COMMITTEE

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

Signature of College Chair/Date: Kevin P Dahm

UNIVERSITY CURRICULUM COMMITTEE

Date Received/Processed _____
Comments:

Curriculum Chair Signature _____ 7/05/02 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 _____

REGISTRAR

Date Approved Course Description Received _____ Hegis Taxonomy & Course Number Assigned 0905.02

Registrar Signature/Date _____ 10/10/02

NOTIFICATION FORWARD

✓ Senate Curriculum Committee Chairperson
✓ Academic Dean(s) CTP Grad Tech 10/16/02
✓ Department Chairpersons
✓ Registrar
_____ Sponsor(s)

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Course Proposal:

1. Details:

Course Title:	**Environmental Treatment Process Principles (0908.412)**
b) Sponsor:	Dr. Kauser Jahan, Civil Engineering, x5323
c) Credit Hours:	3 credit hours
d) Course Level:	Undergraduate, Senior-level (0908.412)
e) Prerequisites:	Senior 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 for Seniors, 0908.412).
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 for Seniors, 0908.412) 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:

›on completion of the course, students will be familiar with:

Fundamentals of Physicochemical Processes in Environmental Engineering such as
Adsorption, 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.

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 to an existing course entitled "Physicochemical Unit Processes for Seniors (0908.412)" 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:

Environmental Treatment Process Principles (0908.412)

Prerequisites: Senior standing or permission of instructor.

)ffered 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.