


1.1 - Course: New Proposal course

General Catalog Information

****READ BEFORE YOU BEGIN****

1. Please turn on the help text before starting this proposal by clicking on the  in the top right corner of the heading.
2. All fields with an * are required. You will not be able to launch the proposal without completing required fields.
3. Before proposing a new course, please consult the "Review for Duplication of Courses" document available on the [New Courses](#) page of the Provost's Office Faculty Resources website.

If you have a question, please visit: <http://www.depts.ttu.edu/registrar/training/digarc/>

Section 1: Course Information

**College Requesting
Course Approval*** Whitacre College of Engineering

Department* Civil, Environmental and Construction Engineering

Choose Level* Undergraduate
 Graduate
 Law

Course Prefix* EnvE

**Proposed Course
Number*** 5390

**Extended/Long
Title*** Advanced Mathematics for Environmental Engineers

**Shortened title for
class schedule listing
in Banner***

NOTE REGARDING HOURS:

First digit is credit hours for course

Second digit is contact hours for lecture

Third digit is contact hours for credit lab

Fourth digit is contact hours for noncredit discussion/lab

Course Hours* 3

Does this course have variable hours?* Yes
 No

If yes, hours are:

Prerequisites Undergraduate mathematics through differential equations

Corequisites

General Restrictions

Course Description: 25 word limit.

Course Description* Mathematical foundations of environmental engineering, processing of data, formulation of mathematical models, applications of ordinary and partial differential equations and computer methods to environmental engineering

Effective Term* FALL 2021

Is this currently or being proposed as an eLearning program?* Yes No distance/online component

If yes, what is the percentage? Between 85-100% online (fully distance)
 Between 50-84% online (hybrid/blended)

Is this a cross-listed course?* Yes
 No

If yes, with which course is it cross-listed?

Is this a tandem (i.e. graduate/undergraduate) course?* Yes
 No

If yes, with which course is it taught in tandem?

Does this course cover multiple topics?* Yes
 No

Proposed THECB Funding Level* 6

For guidance on THECB course funding level, please see: <http://www.depts.ttu.edu/irim/CourseInvty/Reference.php> and for information on CIP and formula funding, please visit: <http://www.depts.ttu.edu/irim/FormulaFunding.php>

CIP Code* 14 .1401 .00 06

To determine the CIP code for a new course, visit: <http://www.txhighereddata.org/Interactive/CIP/>

- Primary Activity Type***
- Lecture
 - Independent Study
 - Practicum
 - Seminar
 - Thesis
 - Dissertation
 - Studio
 - Clinic
 - Simulation
 - Field Experience
 - Private Lesson
 - Ensemble
 - LAB

Secondary Activity Type Discussion Non-Credit Lab Recitation

May this course be repeated for credit? Yes No

Total credit hours if repeated

Course syllabus/syllabi attached Undergraduate Course Syllabus Graduate Course Syllabus Law Course Syllabus

Is Syllabus Attached:* Yes

Recommendations to avoid duplication of existing courses have been reviewed:* Yes

Duplicate courses have been identified:* Yes No

Identify departments housing duplicate courses:

Section 2: Justification

Academic Justification*

Course provides doctoral students with a foundation in advanced mathematical techniques needed in environmental engineering including applications to environmental engineering problems. The course is part of the core requirements for research graduate students in environmental engineering.

Resource Justification*

No new resources other than assignment of a faculty member to the course

Tandem Course Justification

Registrar Office Use Only

Remember to update the this at <https://sharepoint13.itts.ttu.edu/registrar/collegesystemrules/Lists/CourseChanges>

Course Type

- Status**
- Active-Visible
 - Active-Hidden
 - Inactive-Hidden

TCCNS

Provost Office Use Only

Core Code

Routing Number