

MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

Ms. Robin Ayers
Dr. Nahid Gani
Dr. Scott Grubbs
Dr. Ting-Hui Lee
Dr. Jeremy Maddox

Dr. Andy Mienaltowski
Dr. Les Pesterfield
Dr. Todd Willian
Mr. Jason Wilson

FROM: Dr. Stuart Burris, Chair

SUBJECT: Agenda for Thursday, October 7th at 4:00 p.m.

A. OLD BUSINESS:

I. Consideration of the minutes of the September 2, 2021 meeting.

B. NEW BUSINESS:

Type of item	Description of Item & Contact Information
Consent	Proposal to Revise Course Prereq/Coreq CE 462, Hydraulic Engineering Systems, 3 hrs. Contact: Jason Wilson, Jason.wilson@wku.edu , x2322

C. OTHER BUSINESS

Members Present:

Ms. Robin Ayers
Dr. Nahid Gani
Dr. Scott Grubbs
Dr. Ting-Hui Lee
Dr. Jeremy Maddox
Dr. Andy Mienaltowski
Dr. Becky Gilfillen for Dr. Todd Willian
Mr. Jason Wilson

FROM: Dr. Stuart Burris, Chair

The meeting was called to order at 4:00pm.

OLD BUSINESS:

Minutes from April 2021 meeting were approved with a friendly amendment to add Ms. Robin Ayers to the members present list.

NEW BUSINESS:

Consent Agenda

The Proposal to Revise a Course Preq/Coreq: CE 462 was not approved by SEAS before coming to the College Curriculum Committee. Ayers/Wilson motioned to remove the item from the agenda. Motion approved. Item was returned to SEAS.

Action Agenda

None.

Other Business:

None.

Course Change Request

Date Submitted: 09/10/21 3:42 pm

Viewing: **CE 462 : Hydraulic Engineering Systems**

Last approved: 07/14/21 3:13 am

Last revision: 09/10/21 3:42 pm

Changes proposed by: jsn97026

Catalog Pages
referencing this
course

[Civil Engineering \(CE\)](#)

[School of Engineering and Applied Sciences](#)

Proposed Action

In Workflow

1. **EAS Approval**
2. **SC Dean**
3. **SC Curriculum Committee**
4. Undergraduate Curriculum Committee
5. University Senate
6. Provost
7. Course Inventory

Approval Path

1. 08/26/21 2:44 pm
Stacy Wilson
(stacy.wilson):
Approved for EAS Approval
2. 08/26/21 3:21 pm
Stuart Burris
(stuart.burris):
Approved for SC Dean
3. 09/02/21 4:36 pm
Jennifer Anderson
(jennifer.anderson):
Rollback to EAS Approval for SC Curriculum Committee
4. 09/03/21 8:19 am
Stacy Wilson
(stacy.wilson):
Approved for EAS Approval
5. 09/03/21 8:28 am
Stuart Burris
(stuart.burris):
Rollback to EAS Approval for SC

Dean

6. 09/10/21 3:14 pm
Mark Cambron
(mark.cambron):
Rollback to Initiator

7. 09/12/21 9:21 am
Stacy Wilson
(stacy.wilson):
Approved for EAS
Approval

8. 09/13/21 9:31 am
Stuart Burris
(stuart.burris):
Approved for SC
Dean

History

1. Jul 14, 2021 by
Jennifer Hammonds
(jennifer.hammonds)

Active

Contact(s)

Name	E-mail	Phone
Jason Wilson	jason.wilson@wku.edu	270-745-2322

Review Type **Full Review**
Expedited

Term for implementation Spring 2022

Academic Level Undergraduate

Course prefix (subject area) CE - Civil Engineering Course number 462

Department Engineering & Applied Sciences, School of

College Science and Engineering

Course title
Hydraulic Engineering Systems

Abbreviated course title HYDRAULIC ENGINEERING SYSTEMS

Course description

This class deals with the application of hydraulics in Civil Engineering design. The topics include flow in pipelines and open channels, design of culvert systems, flow measurement, hydraulic structures, and computational methods and models.

Credit hours 3

Repeatable

Yes

Number of repeats 2

For maximum credits 3

Default grade type Standard Letter Alternate grade type(s)

Is this course intended to span more than one term?

No

Schedule type

Lecture

CIP Code 140801 - Civil Engineering, General.

Does this course have prerequisites

Yes

Prerequisites

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?
		MATH 331	D	UG		No
And		CE 342	D	UG		No
And	(CE 305	D	UG		Yes
Or		STAT 301	D	UG)	Yes

Corequisites

Equivalent Courses

Restrictions:

College restriction? No

Field of study
restriction/major? No

Classification restriction? No

Departmental Restrictions

Reason for changing the course

Add the same requirements as CE 461. Students will be required to know material covered in either statistics course. ~~It was determined that prerequisites of CE 461 (Hydrology) is not the appropriate prerequisite for this course. CE 342 (Fluid Mechanics) is the appropriate prerequisite course.~~

Is this related to other courses at WKU?

No

Are you seeking Colonnade approval for this course? No

Is this course part of a program that leads to teacher certificate? **No**

Learning outcomes

#	Learning outcomes
1	Calculate forces in static and moving floods
2	Analyze and design simple pipe systems
3	Analyze and design simple pump systems
4	Analyze uniform and gradually varied flow

Content outline

#	Topic
1	Hydrostatics
2	Forces in fluids
3	Pipe flow and fluid friction
4	Pumps and system design
5	Uniform flow and Manning's equation

#	Topic
6	Gradually varied flow solutions using the standard step method and Runge Kutta
7	Intro to HEC-RAS

Student expectations and requirements

Tentative texts and course materials

Special equipment, materials, or library resources needed

Additional information

Supporting documentation

[Course_revise_pre_corequisites_CE_462.pdf](#)

Reviewer Comments

Jennifer Anderson (jennifer.anderson) (09/02/21 4:36 pm): Rollback: Hi Stacy, Jason said this proposal hasn't been approved at the department level yet. Thanks!

Stuart Burris (stuart.burris) (09/03/21 8:28 am): Rollback: Jason indicated in the OCSE CC that this has not yet been approved by SEAS. Needs full review due to include a course outside of SEAS in pre-req changes.

Mark Cambron (mark.cambron) (09/10/21 3:14 pm): Approved by SEAS CC 9/10/21. Rolled back to Jason to update outcome list.

Mark Cambron (mark.cambron) (09/10/21 3:14 pm): Rollback: update to current outcomes

Key: 1543