

Date Submitted: 02/05/18 2:14 pm

Viewing: **CHEGPH : Engineering (Chemical Engineering), Doctor of Philosophy**

Last approved: 05/17/16 2:17 pm

Last edit: 02/06/18 10:33 am

Changes proposed by: chesteki

Catalog Pages Using
this Program

[Chemical Engineering_\(CHEG\)](#)

Submitter: User ID: chesteki Phone:
575-3416 575-34116

Program Status Active

Academic Level Graduate

Type of proposal Major/Field of Study

Select a reason for this modification

Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding Focused Study)

Are you adding a concentration?

No

Are you adding a track?

No

Are you adding a focused study?

No

Effective Catalog Year Fall 2019

College/School Code

College of Engineering(ENGR)

Department Code

In Workflow

1. ENGR Dean Initial
2. GRAD Dean Initial
3. Director of Program Assessment and Review
4. Registrar Initial
5. CHEG Chair
6. ENGR Curriculum Committee
7. ENGR Faculty
8. ENGR Dean
9. Global Campus
10. Provost Review
11. University Course and Program Committee
12. Graduate Committee
13. Faculty Senate
14. Provost Final
15. Provost's Office-- Notification of Approval
16. Registrar Final
17. Catalog Editor Final

Approval Path

1. 01/26/18 8:33 pm
Norman Dennis (ndennis): Rollback to Initiator
2. 02/06/18 10:26 am
Norman Dennis (ndennis): Approved for ENGR Dean Initial

Department of Chemical Engineering(CHEG)

Program Code CHEGPH
 Degree Doctor of Philosophy
 CIP Code

3. 02/06/18 10:33 am
Pat Koski (pkoski):
Approved for GRAD
Dean Initial
4. 02/06/18 1:00 pm
Alice Griffin
(agriffin): Approved
for Director of
Program
Assessment and
Review
5. 06/26/18 2:48 pm
Karen Turner
(kvestal): Approved
for Registrar Initial
6. 07/05/18 11:51 am
Dave Ford
(daveford):
Approved for CHEG
Chair
7. 08/28/18 12:06 pm
Manuel Rossetti
(rossetti): Approved
for ENGR
Curriculum
Committee
8. 08/28/18 1:22 pm
Norman Dennis
(ndennis): Approved
for ENGR Faculty
9. 08/28/18 1:25 pm
Norman Dennis
(ndennis): Approved
for ENGR Dean
10. 08/28/18 4:40 pm
Kiersten Bible
(kbible): Approved
for Global Campus
11. 08/29/18 3:20 pm
Terry Martin

- (tmartin): Approved for Provost Review
12. 09/30/18 2:50 pm
Alice Griffin
(agriffin): Approved for University Course and Program Committee
13. 10/26/18 2:14 pm
Pat Koski (pkoski): Approved for Graduate Committee

History

1. Mar 21, 2016 by chesteki
2. May 17, 2016 by Lisa Kulczak (lkulcza)

14.0101 - Engineering, General.

Program Title

Engineering (Chemical Engineering), Doctor of Philosophy

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No ~~Yes~~

Does this proposal impact any courses from another College/School?

No

What are the total **72** hours needed to complete the program?

Program Requirements and Description

Requirements

Requirements for the Ph.D. Degree: At least 42 hours of course work and 30 hours of dissertation as follows:

MATH 4423	Introduction to Partial Differential Equations 1	3
MATH 5423	Introduction to Partial Differential Equations	3
<u>CHEG 5113</u>	Transport Processes I	3
<u>CHEG 5133</u>	Advanced Reactor Design	3
<u>CHEG 5333</u>	Advanced Thermodynamics	3
<u>CHEG 6123</u>	Transport Processes II	3
6 hours of a 5000 or 6000 level CHEG course		6
18 hours of any 5000 or 6000 level technical electives		18
<u>CHEG 5801</u>	Graduate Seminar (this should be taken every semester)	3
<u>CHEG 700V</u>	Doctoral Dissertation	30

Research resulting in successfully defended dissertation and assisting in departmental teaching are required.

Total Hours 72

1 International or non-engineering BS students must take a design course as one of their electives in addition to the above list.

~~2 International students must take CHEG 4443%7C in addition to the above list.~~

Students should also be aware of Graduate School requirements with regard to [doctoral degrees](#).

Are Similar Programs available in the area?

No

Estimated Student 20

Demand for Program

Scheduled Program **2023** ~~2016~~

Review Date

Program Goals and

Objectives

Program Goals and Objectives

The educational objective of the Chemical Engineering graduate program is to prepare students for advanced roles in the profession through a combination of planned coursework and research activities so that graduates are equipped to address present and future challenges in such areas as research, teaching, management, and entrepreneurship.

Learning Outcomes

Learning Outcomes

The educational outcomes of our graduate program are to assure that each student has had an opportunity to:

Learning Outcomes

- a. Critically analyze meaningful and technologically relevant data, and for thesis students, plan and safely conduct research;
- b. Demonstrate proficiency in fundamental mathematics and chemical engineering problem solving;
- c. Understand professional and ethical responsibility; and
- d. Develop and use effective written and oral communication skills.

Description and justification of the request

Description of specific change	Justification for this change
Change requirement from MATH 4423 to MATH 5423. Also remove allowing any 4000 level electives per ADHE PhD requirements.	The MATH 4423 course has been replaced by 5423.

Upload attachments

Reviewer Comments

Norman Dennis (ndennis) (01/26/18 8:33 pm): Rollback: Make your corrections

Norman Dennis (ndennis) (02/06/18 10:26 am): Changed program review date.

Pat Koski (pkoski) (02/06/18 10:33 am): I removed the word "new" and added "ADHE." The requirements are not new.