Date Submitted: 07/30/19 1:39 pm

Viewing: CHEGPH: Engineering (Chemical Engineering),

Doctor of Philosophy

Last approved: 05/21/19 1:01 pm

Last edit: 08/05/19 4:06 pm Changes proposed by: chesteki

Catalog Pages Using

this Program

Chemical Engineering (CHEG)

Submitter: User ID: chesteki Phone: 575-3416

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/changing Focused Study or Track)

Are you adding a concentration? No

Are you adding a track?

Are you adding a focused study? No

Effective Catalog Year Fall 2020

College/School Code College of Engineering (ENGR)

Department Code Department of Chemical Engineering (CHEG)

Program Code CHEGPH

Degree Doctor of Philosophy

CIP Code

14.0101 - Engineering, General.

Program Title

Engineering (Chemical Engineering), Doctor of Philosophy

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

In Workflow

- 1. FNGR Dean Initial
- 2. GRAD Dean Initial
- 3. Director of Program
 Assessment and

Review

- 4. Registrar Initial
- 5. Institutional Research
- 6. CHEG Chair
- 7. ENGR Curriculum
 Committee
- 8. ENGR Faculty
- 9. ENGR Dean
- 10. Global Campus
- 11. Provost Review
- 12. University Course and Program
 Committee
- 13. Graduate

 Committee
- 14. Faculty Senate
- 15. Provost Final
- 16. Provost's Office--Notification of Approval
- 17. Registrar Final
- 18. Catalog Editor Final

Approval Path

1. 08/02/19 1:52 pm

Norman Dennis

for ENGR Dean

(ndennis): Approved

Initial

2. 08/02/19 1:55 pm

Pat Koski (pkoski):

Approved for GRAD

Dean Initial

3. 08/05/19 4:07 pm

Alice Griffin

(agriffin): Approved

for Director of

Program

Assessment and

Review

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

- 4. 08/09/19 3:31 pm Lisa Kulczak
 - (Ikulcza): Approved for Registrar Initial
- 5. 08/09/19 3:35 pm Gary Gunderman (ggunderm): Approved for Institutional Research
- 6. 08/23/19 9:39 am

 Dave Ford

 (daveford):

 Approved for CHEG

 Chair
- 7. 08/29/19 1:23 pm
 Manuel Rossetti
 (rossetti): Approved
 for ENGR
 Curriculum
 Committee
- 8. 08/29/19 1:25 pm Norman Dennis (ndennis): Approved for ENGR Faculty
- 9. 08/29/19 1:26 pm Norman Dennis (ndennis): Approved for ENGR Dean
- 10. 09/03/19 4:22 pm Suzanne Kenner (skenner): Approved for Global Campus
- 11. 09/04/19 7:41 am
 Terry Martin
 (tmartin): Approved
 for Provost Review

History

- 1. Mar 21, 2016 by chesteki
- 2. May 17, 2016 by Lisa Kulczak (lkulcza)
- 3. May 21, 2019 by chesteki

Requirements for the Ph.D. Degree: At least 33 42 hours of course work and 39 30 hours of dissertation as follows:

CHEG 5113 Transport Processes I 3 CHEG 5133 3 Advanced Reactor Design 3 **CHEG 5333 Advanced Thermodynamics** CHEG 6123 Transport Processes II 3 6 hours of a 5000 or 6000 level CHEG course 18 hours of any 5000 or 6000 level technical electives 18 3 hours of a 5000 or 6000 level CHEG course 3 12 hours of any 5000 or 6000 level technical electives 12 CHEG 5801 Graduate Seminar (this should be taken every semester) 2 39 CHEG 700V **Doctoral Dissertation**

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.

Students should also be aware of Graduate School requirements with regard to doctoral degrees.

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

Are Similar Programs available in the area?

No

Estimated Student 20

Demand for Program

Scheduled Program 2022-2023 2023

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:

- 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	

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CHEG elective requirement was reduced from 6 to 3 hours.	In order to increase the focus on research experience, the number of course hours is being decreased. This was
Technical elective hours were reduced from 18 to 12 hours.	decided after a comprehensive examination of other domestic Chemical Engineering PhD course requirements.
Dissertation hours were increased by 9 hours to maintain the total number of required hours at 72.	

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (08/05/19 4:05 pm): In the program requirements field, I changed 42 hours to 33 hours of course work. And changed 30 hours of dissertation to 39 hours with permission from submitter.

Alice Griffin (agriffin) (08/05/19 4:06 pm): Updated program review date to include academic year.

Key: 300