Samantha Bailey has submitted a request for a major curricular change. His/her email address is: samantha.bailey@wsu.edu.

**Requested change:** Revise or Drop Graduate Plan

**Degree:** M.S. in Chemical Engineering

**Title:** Chemical Engineering - Non-Thesis

**Requested Effective Date:** Fall 2019

Revise plan requirement: Yes

**Dean:** Field, David - Assoc Dean - VCEA - Grad,

**Chair:** Petersen, Jim,
I approve this proposal in its current form.

--Jim

Petersen, Jim,

Field, David - Assoc Dean - VCEA - Grad,

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Revise plan requirement: Yes

Both Chair and Dean approval is required to complete the submission process. Please indicate that you have reviewed the proposal by highlighting one of the statements below and **reply all** to this email. (curriculum.submit@wsu.edu)

[Details of major change requested can be found in the attached supplemental documentation]

1. I approve this proposal in its current form.

2. I approve this proposal with revisions. Revisions are attached.

3. I do not approve this proposal. Please return to submitter.

If you do not respond within one week, you will be sent a reminder email. If no response is received within three weeks of the submission date, the proposal will be returned to the submitter.
Thank you for your assistance as we embark on this new process. If you have any questions or concerns, please let us know wsu.curriculum@wsu.edu.

Suzanne Lambeth, Assistant Registrar
Graduations, Curriculum, & Scheduling
Washington State University
Registrar’s Office
PO Box 641035
Pullman WA 99164-1035
509-335-7905
slambeth@wsu.edu

Note: Please use the attachments to this email rather than the link below to view the supporting documentation.
I approve in the present form.

Dave Field

I approve this proposal in its current form.

--Jim

Petersen, Jim,

Field, David - Assoc Dean - VCEA - Grad,

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Suzanne Lambeth, Assistant Registrar
Graduations, Curriculum, & Scheduling
Washington State University
Registrar’s Office
PO Box 641035
Pullman WA 99164-1035
509-335-7905
slambeth@wsu.edu

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Rationale
Transport phenomena, chemical reaction engineering, and chemical thermodynamics form the core of the chemical engineer's thought processes. In recent years, the faculty of the chemical engineering program have found that many of our MS graduates have not completed upper division coursework in these topics and therefore are not grounded in core chemical engineering principles. This lack of grounding adversely impacts the student’s ability to conduct outstanding, cutting edge research since the student must learn these materials in a just-in-time fashion while conducting research. In a recent faculty meeting, the chemical engineering faculty voted to revise the graduate curriculum to enable students to focus on these core topics.

In addition to these core technical topics, the chemical engineering faculty believe all students benefit from a core course that teaches students how to conduct research and to communicate research results and proposals. In the past, these topics have been taught in a two course sequence, ChE 596/597, each of which was two credits. Under a separate proposal, this sequence is reduced to a single, 3-credit course.

All impacted courses are in chemical engineering, so no other academic programs should be impacted by this change.

Current and Proposed Requirements
MS in Chemical Engineering (Non-Thesis):

• Core: must complete all of the following (4 courses total):
  o CHE 510 (3 credits)
  o CHE 541
  o CHE 596 (Research Methods and Communications – 3 credits)
  o CHE 597
  o CHE 529 (Kinetics – 3 credits)
  o CHE 527 (Thermodynamics – 3 credits)

• Graduate Seminar: 2 credits minimum:
  o CHE 598

• CHE 500-Level Electives: 612 credits minimum:
  o Chosen in consultation with the advisor and committee
  o At minimum, 6 must be 500-level CHE credits

• 500-level Electives: 85 credits minimum:
  o Chosen in consultation with the advisor and committee

• Research Credits: 4 credits minimum:
  o CHE 702

  Pass Final Exam
  o Consult the program handbook for more information on this requirement

• Total Graded Credits: 26 credits minimum
• Total Credits: 323 credits minimum

Applicable Graduate School Requirements:

• Graded Credits: 26 credits
Students may use a maximum of 6 credits of undergraduate coursework (300-400)

• Research Credits: 4 credits
  o CHE 702
• Total Credits: 30 minimum