Washington State University
MAJOR CHANGE FORM – REQUIREMENTS

NOTE: If proposing a new program (degree) or extending, moving, consolidating, eliminating or renaming an existing program (degree), these proposals must first go through the Provost’s Office review process. Please do not use this form. Please contact the Provost’s Office for directions on processing program (degree) proposals.

SUBMITTING PROPOSAL – Follow the steps on form, then:
☐ Submit one electronic copy of complete packet of signed form/rationale statement/supporting documentation and/or edits to wsu.curriculum@wsu.edu.
☐ Send the original stapled packet PLUS 10 stapled copies of packet to the Registrar’s Office, campus mail code 1035.

Department Name Materials Science and Engineering Program

1. Check proposed changes:
☐ New Plan (Major) in ___________________________ CIP# _____.
☐ Change name of Plan (Major) from ___________________________ to ___________________________.
☐ Revise certification requirements for the Plan (Major) in ___________________________.
☐ Revise Plan (Major) requirements in Materials Science and Engineering Program
☐ Drop Plan (Major) in ___________________________.
☐ New Sub-Plan (Option) in ___________________________ CIP# _____.
☐ Change name of Sub-Plan (Option) from ___________________________ to ___________________________.
☐ Revise requirements for the Sub-Plan (Option) in ___________________________.
☐ Drop Sub-Plan (Option) in ___________________________.
☐ New Minor in ___________________________ CIP# _____.
☐ Change name of Minor from ___________________________ to ___________________________.
☐ Revise Minor requirements in ___________________________.
☐ Drop Minor in ___________________________.
☐ New Certificate in ___________________________ CIP# _____.
☐ Change name of Certificate from ___________________________ to ___________________________.
☐ Revise Certificate requirements in ___________________________.
☐ Drop Certificate in ___________________________.
☐ Other ___________________________.

2. Effective Date: Fall 2016 (Effective date must be for future fall term.) Submission deadline is Oct 1st.
NOTE: Items received after deadlines may be put to the back of the line or forwarded to the following year. Please submit on time.

Contact: Aurora Clark
Email: aaulark@wsu.edu
Phone number:
Campus mail code:

3. PLEASE ATTACH A RATIONALE STATEMENT giving the reasons for each request marked above, and explaining how this impacts other units in Pullman and other campuses (if applicable).

4. PROVIDE SUPPORTING DOCUMENTATION AND/OR CURRENT CATALOG COPY with edit marks showing requested changes.

5. SIGN AND DATE APPROVALS.

Chair Signature/date ___________________________
Dean Signature/date ___________________________
CSC Date ___________________________

Chair Signature/date ___________________________
Dean Signature/date ___________________________
AAC or GSC Date ___________________________
Senate Date ___________________________
Justification

Materials Science and Engineering Program – change from 22 total graded credits to 21 credits

The Materials Science and Engineering Program is an Interdisciplinary PhD program, that underwent massive curricular changes 2011. The approved curriculum in 2011, consisted of 16 credit hours associated with the Core courses, with 6 credits of additional graduate level courses, and 6 seminar credits, as defined below:

Summary of Curriculum

CORE:

22 credit hours = 3 credits of Mandatory coursework (i) + 12 credits chosen from four of topics (ii) through (iv)

(i) MANDATORY CORE COURSE: Advanced Materials / MATSE/MSE 505, 4 credits


(iv) Materials Characterization (Microscopic Anal./MATSE 571, Stats. of Microstructure /MSE/MATSE 521)


(vi) Quantum Mechanics / Quantum Theory (Adv. Phys. Chem/CHEM 532, PHYS 450, PHYS 550)


(ix) Transport/Kinetics (Transport Phenomena/CHEM 510, Chemical Engineering Kinetics/ChemE 529, Phase Transform./MSE 516, Heat Transfer/ME 404)

(x) Multi-Component Systems and Interfaces (Thin Films/MSE 517, Adhesion/CE 597/MSE 547, Interfacial Phenomena/CHEM 585, Engineering Composites/MSE 404), Polymer Materials and Engineering/CHE 593/MSE 543

ADDITIONAL COURSES: (minimum of 6 credits)

Additional courses are selected by the student in consultation with their research advisor and thesis committee. Any 400-500 level courses in engineering (MSE, ME, CE, ChE), the physical sciences (PHYS and CHEM), and mathematics (MATH) are usually acceptable unless they have been used for credit in the undergraduate program. Any of the courses listed under the core (above), which have not been counted towards the satisfying the core requirement, may be counted as additional course(s). Whenever a course is cross-listed with a MatSE course, students should sign up for the MatSE course.

SEMINAR: (minimum 6 credits)

MatSE 593 Seminar in Materials Science & Engineering (1). Repeated for adequate credit.

RESEARCH CREDITS:

At least 20 credits of MatSE 800. Typically, more than 20 credits are necessary to make up the total of required 72 hours for the PhD degree.

OTHER REQUIREMENTS:

Program of study must satisfy Graduate School requirements (72 total credits, minimum of 20 credits of 800). For the most up to date copy of the deadlines and procedures go to: http://gradschool.wsu.edu/Documents/PDF/DeadlinesProcDoc.2014-15.pdf
However on 3/20/2012, the MATSE/MSE 505 course was approved for change from a 4 credit course to a 3 credit course. To account for the change of credit hours for MATSE/MSE 505 we now request that the total number of graded credit hours for the MSE program be changed from 22 to 21 credits, as defined below:

**Summary of Curriculum**

**CORE:**

21 credit hours = 3 credits of Mandatory coursework (i) + 12 credits chosen from four of topics (ii) through (x)

(i) **Mandatory Core Course:** Advanced Materials / MATSE/MSE 505, 3 credits


(iv) **Materials Characterization** (Microscopic Anal./MATSE 571, Stats. of Microstructure /MSE/MATSE 521)


(vi) **Quantum Mechanics / Quantum Theory** (Adv. Phys. Chem/CHEM 532, PHYS 450, PHYS 550)


(viii) **Micro-Mechanics** (Mechanical Behavior of Materials/MSE513, Mechanics of Composite Materials/ME/MSE 534)


(x) **Multi-Component Systems and Interfaces** (Thin Films/MSE 517, Adhesion/CE 597/MSE 547, Interfacial Phenomena/ChemE 585, Engineering Composites/MSE 404), Polymer Materials and Engineering/CE593/MSE543

**ADDITIONAL COURSES:** (minimum of 6 credits)

Additional courses are selected by the student in consultation with their research advisor and thesis committee. Any 400-500 level courses in engineering (MSE, ME, CE, ChE), the physical sciences (PHYS and CHEM), and mathematics (MATH) are usually acceptable unless they have been used for credit in the undergraduate program. Any of the courses listed under the core (above), which have not been counted towards the satisfying the core requirement, may be counted as additional course(s). Whenever a course is cross-listed with a MatSE course, students should sign up for the MatSE course.

**SEMINAR:** (minimum 6 credits)

MatSE 593 Seminar in Materials Science & Engineering (1). Repeated for adequate credit.

**RESEARCH CREDITS:**

At least 20 credits of MatSE 800. Typically, more than 20 credits are necessary to make up the total of required 72 hours for the PhD degree.

**OTHER REQUIREMENTS:**

Program of study must satisfy Graduate School requirements (72 total credits, minimum of 20 credits of 800). For the most up to date copy of the deadlines and procedures go to: