

## Materials Science & Engineering PhD Program (MSEP)

### APPENDIX B: SUMMARY OF CURRICULUM

#### **CORE COURSES:** (12 credits)

As an interdisciplinary program, MSEP requires its students to take classes in a broad range of materials areas. To accomplish this, students must take one mandatory course (MATSE/MSE 505 – Advanced materials science) plus 3 other courses from **3 of the other categories** listed below. In each category are a list of approved courses that satisfy that category.

Note that this list contains courses in several departments, and students should contact these home departments of the course for questions, including scheduling. Whenever a course is cross-listed with a MATSE course, students should sign up for the MATSE course. When a course is cross-listed as MSE and another prefix, students should sign up for the MSE course.

The table on the next page contains the year/semester when the course is typically offered, but these are subject to change. Some departments list a projected schedule of course offerings, such as MME (MSE and ME course prefixes) at: <https://mme.wsu.edu/documents/2017/05/graduate-schedule-of-courses.pdf>. Schedules of classes can be found for the current academic year at: <http://schedules.wsu.edu/>.

Requests for alternate courses are made on an exception basis, such as when requesting transfer credits or filing a program of study. 500 level special topics courses will be considered, as will appropriate 400- and 500-level courses from WSU Urban Campuses. In the case of requesting an alternate course, a syllabus in English must be supplied, and the Director has the final say as to whether a course may be acceptable for the program of study. This list of approved courses may be updated in the future based on approval by the Faculty Senate.

#### **ADDITIONAL COURSES:** (9 credits)

In addition to the 4 CORE courses (MATSE 505 + 3 CATEGORIES), 3 additional courses are required. Additional courses are selected by the student in consultation with their research advisor and thesis committee. Any 400-500 level courses in engineering (e.g., MSE, ME, CE, CHE, EE, BioEng), the physical sciences (e.g., PHYS, CHEM), and mathematics (e.g., MATH, STAT) 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).

#### **SEMINAR:** (6 credits)

MATSE 593 Seminar in Materials Science & Engineering (1). Repeated for adequate credit. In rare cases, other courses units may be substituted for these units with the permission of the Director.

#### **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).

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- Up to 9 credits of 300- or 400-level courses may be included in the Program of Study with committee and Director approval (section a-iii, <https://gradschool.wsu.edu/chapter-six-g2/>).
- Up to 10 transfer credits may be applied to the Program of Study from another institution, either from an MS degree or other graduate work, providing grade was at least “B”. For MSEP, these courses must either be approved as alternates to CORE classes, be considered as ADDITIONAL courses, or merely accepted as additional credit hours. For these transfers, an English copy of the syllabus must be provided. For more details see (section e, <https://gradschool.wsu.edu/chapter-six-g2/>).
- Students must provide a completed MSEP Program of Study spreadsheet at the time of submission of the Program of Study, where requested alternates to approved CORE classes, whether WSU or transfer, are requested; the spreadsheet can be found at <http://materials.wsu.edu/documents/2017/08/msep-course-planner.xlsx>.
- For the most up to date copy of the graduate school policies and procedures, see <https://gradschool.wsu.edu/159-2/>, and deadlines, see <https://gradschool.wsu.edu/deadlines/>.

### TYPICAL CALCULATION

12 (CORE) + 9 (ADDITIONAL) + 6 (SEMINAR) + 45 (RESEARCH) = 72 CREDITS