



Department of Materials Science and Engineering
Welding Engineering MS Non-Thesis Curriculum Worksheet, effective AU19

Student name: _____ OSU name.##: _____

Advisor(s): _____ OSU ID #: _____

Term of graduation (proposed): _____ Status: [] Full-time [] Part-time | [] Online MS

Of the 30 graduate credits needed for an MS Non-Thesis, Welding Engineering requires at least 24 graded (i.e., A-E graded) graduate credits.

WE Core—four courses required

At least two Core courses must come from two unique categories on the Primary Core list. Remaining two courses are to come from remaining Primary or Secondary Core categories.

Table with 2 columns: Primary WE Core and Secondary WE Core. Lists course numbers and credits for Processes, Design, Materials, Modeling, NDE, and Polymers.

Effective with AU23 admits--Core GPA must be 3.0 or greater.

If taken at the 4000-level, please enter these courses in the table. *

Table with 8 columns: Primary Core, Sem, Credits, Grade, Secondary Core, Sem, Credits, Grade. Includes two empty rows for data entry.

Only one Process course (7001 or 7002) may be counted as a Core course, not both of them.

24 Graded Graduate Credits:

- Enter Core courses below, if taken at the 7000-level. These count toward the 24 credits.
20 of the 24 credits are to come from WELDENG courses. With approved petition, courses from outside WELDENG may be counted toward this requirement.
Of these 20 in WELDENG, at least 8 credits must be in WELDENG at the 7000+ level.
Up to 4 credits may come from a non-WELDENG course in an allied discipline without petition.

Table with 4 columns: Department & course number, Credits, Term, Grade. Includes 10 empty rows for data entry.

To reach or exceed 30 total graduate credits, enroll in up to six credits of WELDENG 7193.01/02. Further details:

- https://mse.osu.edu/ms-non-thesis-degree-requirements-we
- 7193.01/02 credit is earned toward the development of Final Report.
- Final report serves as written portion of MS Non-Thesis Examination.
- 7193.02 enrollment permitted if letter grade required for reimbursement by employer.

Table with 3 columns: Credits, .01 or .02?, Term. Includes three empty rows for data entry.



Additional requirements for on-campus MS Non-Thesis students:

Instructional Assistant Credits (2cr) One term of IA service required of full-time students.

IA service #1 term: _____ Assisted Course: _____

WELDENG 7895—1 cr each, list semesters below

- Enrollment required of full-time students every AU & SP except final term.
- On-campus part-time students are to enroll once per year.

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Other misc. graduate credits / Notes / Comments

Final Report

Date if known

The student and advisor will determine a Welding Engineering topic relevant to the student’s area of interest that will serve as the subject of the student’s WE 7193.01/02 *Individual Studies in Welding Engineering* report. The student will write a report on this topic, limited to 20 pages. This report serves as the written MS final examination.

Oral Presentation of Final Report

Date if known

The student will provide to the MS Committee an oral presentation of the report. The oral presentation, questions, and discussion may occur in person before the Committee or via video conferencing, in line with Graduate School guidelines. The MS Committee may ask questions to the student as part of this oral presentation.

*** Graduates of the WELDENG undergraduate program:**

Students who have taken the 4000-level version of a WELDENG course are not permitted to take the 7000-level version of that course as a graduate student. For example, a student who completed WE 4001 as an undergraduate may not enroll in WE 7001 as a graduate student.

Addressing the WELDENG Core requirement

If a graduate student has taken the 4000-level version of a WELDENG Core course as a WE undergraduate, s/he has met the Core requirement for that course(s). However, the student must still meet the graded graduate credit requirements for the degree.

For example if the student has taken WE 4001, 4201, 4101, and 4301 as an undergraduate, the student will have met the WELDENG Core requirement and no further Core courses are required. S/he must still complete 18 graded graduate credits, 15 credits of which are to be from WELDENG courses. Former undergraduates of the WELDENG program may petition the WE GSC to use course work from outside of WE to meet the graded graduate credit requirements (ex., MSE, ISE, Physics, etc.).

WELDENG Master's Non-Thesis Degree

Master's Non-Thesis

Min. 30
graduate
credit hours

(course work
at the 5000-
level or
greater)

Graded graduate credits, min 24 credits

- Of these 24, a minimum of 20 credits must come from WELDENG³
- Of these 20, at least 8 credits must be 7000+
- Within these 20, 4 courses must meet the WELDENG Core course requirement

WELDENG Core

Four Core courses required. At least two must come from two unique categories on the *Primary Core* list. Remaining two courses are to come from remaining Primary or Secondary Core categories.²

Effective with AU23 admits--min Core GPA of 3.0 required

Primary WE Core:

Processes: 7001 (3) or 7002 (3)

Design: 7201 (4)

Materials: 7101 (3)

Secondary WE Core:

Modeling: 7115 (3)

NDE: 7301 (3)

Polymers: 7406 (3)

Requirements for on-campus MS Non-Thesis students only: (online exempt)

Instructional Assistant (one term of service) 2 cr of WE 7193.01

WELDENG 7895 Seminar

Full Time--enroll AU, SP; Part-time--enroll at least 1x per year; Not required semester of graduation

Degree completion

Apply to graduate See also: gradsch.osu.edu/completing-your-degree

Min. 3 grad cr of enrollment. Secure approval to graduate from WE Graduate Studies Coordinator and submit *Application to Graduate* at GradForms.osu.edu for term of graduation.

Final Report (enroll in WE 7193.01 or .02, 4 to 6 credits)

In the final term in which 7193.01 credits are to be completed, the student is to present a final written report to his/her advisor on a topic in welding engineering agreed upon by the student and approved by the advisor. **The final report will serve as the written portion of the MS Non-Thesis final examination.**

- In addition, the student must present an oral seminar on the topic of the written document to the MS examination committee which will evaluate both.