



Department of Materials Science and Engineering
Welding Engineering MS with 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 with Thesis, Welding Engineering requires at least 18 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. The remaining two courses are to come from the remaining Primary or Secondary Core categories.

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

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

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)

Primary Core	Sem	Credits	Grade	Secondary Core	Sem	Credits	Grade

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

18 Graded Graduate Credits:

- Enter Core courses, if taken at the 7000-level. These count toward the 18 credits.
- 15 of the 18 credits are to come from WELDENG courses. *With approved petition, courses from outside WELDENG may be counted toward this requirement.*
- Of these 15 in WELDENG, at least 6 credits must be in WELDENG at the 7000+ level.
- Up to 3 credits may come from a non-WELDENG course in an allied discipline without petition.

Department & course number	Credits	Term	Grade

To reach or exceed the 30 graduate credits required, the remaining credits may be comprised of:

WELDENG 6999--credits to date (min 10 cr): _____

Instructional Assistant Credits (2 cr of WELDENG 7193.01) One term of IA service required.

IA service #1 term: _____ Assisted Course: _____

WELDENG 7895—1 cr each; required every AU/SP except final term; list semesters below.

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Other misc. graduate credits / Notes / Comments

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Presentation and/or Publication Requirement

The student is to meet the Publication requirement as detailed here:

WE Publication/Presentation Requirement

- **Welding Engineering Publication Form** required to confirm completion of this requirement. To complete the form, see go.osu.edu/weldeng_publication_form

Final Oral Examination (Thesis defense)

Date if known

In final term, the student is to defend the Thesis before a committee (WE advisor and at least one other OSU Graduate Faculty member). Committee posts decision on GradForms.osu.edu *Report on Final Examination*.

Thesis submission (Committee final approval and upload)

Date if known

After any revisions have been made and approved by the committee, upload format-approved final document to OhioLink per Graduate School guidelines. Confirm that committee has posted decision on GradForms.osu.edu *Report on Final Document*.

*** 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 with Thesis Degree

Master's with Thesis

Min. 30
graduate
credit hours

(course work
at the 5000-
level or
greater)

Graduate credits, min 30

Graded graduate credits, min 18

- Of these 18, a minimum of 15 credits must come from WELDENG ³
- Of these 15, at least 6 credits must be 7000+
- Within these 15, 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. *

Effective for 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)

WELDENG 6999

*Research in Welding
Engineering, min 10 cr*

Instructional Assistant

One term of service,
2 cr of WE 7193.01

WELDENG 7895

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

Degree completion

Presentation/publication requirement

Review Publication requirements on website

Completion confirmed by submission of Welding Engineering Publication Form.

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.

Presentation and defense of an acceptable thesis



----- **S A M P L E, D O N O T U S E** -----

Welding Engineering Publication Form

For use with M.S. with Thesis and Ph.D. Degrees

This form is used to detail how the student has met the publication/presentation requirement for the Welding Engineering M.S. with Thesis or Ph.D. degree. The signatures of the student and advisor confirm completion of this requirement. **Please attach proof of acceptance or publication to this form.**

Please use DocuSign form found at go.osu.edu/weldeng_publication_form

Student Name: _____ OSU ID#: _____

OSU Email Address: _____

Advisor Name(s): _____

M.S. with Thesis--

List one conference presentation, conference paper, or journal article for which the student is the first author.

Type: Conference presentation Conference paper Journal article

Place of presentation or publication (e.g., conference name or journal name):

Presentation/Publication title: Date of acceptance: _____

First author, if publication: _____

Ph.D.

List at least two peer-reviewed journal articles in which the student is first author.

Pre-AU22 admit
making use of pre-
AU22 requirements

1. Journal article title: _____ Date of acceptance: _____

First author: _____

Journal name & impact factor: _____

2. Journal article title: _____ Date of acceptance: _____

First author: _____

Journal name & impact factor: _____

Signatures:

Student: _____ Advisor: _____ Graduate Studies Chair: _____

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