



Department of Materials Science and Engineering
Welding Engineering Ph.D. Curriculum Worksheet, effective AU19

Student name: _____ **OSU name.##:** _____

Advisor(s): _____ **OSU ID #:** _____

Term of graduation (proposed): _____ **Status:** ☐ Full-time ☐ Part-time

Of the 80 graduate credits needed for the Ph.D., Welding Engineering requires at least 30 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.

*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.

- ☐ To take the WE Candidacy Examination the student must complete the WE Core Course requirement, earning a *cumulative* GPA in the Core Courses of 3.0 or greater.

30 Graded Graduate Credits:

- Enter Core courses below, *if taken at the 7000-level*. These count toward the 30 credits.
- Of these 30, at least 9 credits *beyond those taken for the Core* must be in WE at the 7000+ level.**
- Up to 9 credits may come from a non-WE course in an allied discipline without petition.

Department & course number	Credits	Term	Grade



To reach or exceed the 80 graduate credits required, the remaining credits may be comprised of:

WELDENG 6999 & 8999--credits to date (min 10 cr):

Instructional Assistant Credits (4 cr of WELEDENG 7193.01) Two terms of IA service required.

IA service #1 term: _____ Assisted Course: _____

IA service #2 term: _____ Assisted Course: _____

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

Other misc. graduate credits / Notes / Comments

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Candidacy Examination

Date if known

To qualify to take the WE Candidacy Examination the student must complete the WE Core Course requirement, earning a cumulative GPA in the Core Courses of 3.0 or greater. A student is permitted two attempts at the Candidacy Exam.

Dissertation Overview

Date if known

Must occur at least six months before the Dissertation Defense. This is designed so that the Dissertation Committee will be able to give the student advice throughout the completion of the dissertation. The Dissertation Overview must be announced to the public at least one week before the Overview takes place.

Final Oral Examination (Dissertation defense)

In final term, the student is to defend the Dissertation before a committee (MSE advisor plus min. two active MSE graduate faculty). Committee posts decision on GradForms.osu.edu *Report on Final Examination*.

Dissertation submission (final approval and upload)

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*.

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



*** 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.).

Former WE undergrads, who completed the Core courses in their 4000 version, must complete **15** graded graduate credits before applying for Candidacy.

****** With approved petition, courses from outside WELDENG may be counted toward this requirement.

WELDENG Ph.D. Degree

Ph.D.

Min. 80
graduate credit
hours

(coursework at
the 5000-level
or greater)

Graded graduate credits, min 30 credits

Within these 30, 4 courses must meet the WELDENG Core course requirement

Beyond the Core, at least 9 credits must be WELDENG 7000+

Up to 9 credits may come from any relevant graded graduate credit that is 5000-level or greater in or outside of WELDENG ²

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. ¹

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)

Additional graduate credits (to reach 80+) are to include:

WELDENG 7895 Enroll every AU & SP; Part-time—enroll at least 1x per year; Not required term of graduation

Instructional Assistant Two terms of service assisting with undergraduate instruction; 2 x 2 cr of WE 7193.01

WE 6999/8999 Graduate credit for research, enroll under advisor

Degree completion

Candidacy Examination (Requires 3.0+ GPA in four Core courses to qualify)

- 20-page Research Proposal (written portion of Candidacy Exam)
- 30 min presentation of proposal to committee prior to Oral portion of exam
- Oral portion of exam (2 hours)

Dissertation Overview Public presentation of research progress to Dissertation Committee. This is to occur at least six months before dissertation defense.

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 in final term. Secure approval to graduate from WE Graduate Studies Coordinator and submit *Application to Graduate* at GradForms.osu.edu for term of graduation.

Dissertation Presentation and Defense



----- **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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