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Updated MAE Graduate Degree Requirements

(Effective Fall 2016)

Doctoral
Masters of Science
Masters of Science Non-Thesis



MS DEGREE REQUIREMENTS

MS Non-thesis and DE Requirements

Graded Courses: 27.0
credits (may include up
to three non-MAE
approved courses)

Project Work: 3.0 credits
MAE 586

Total: 30.0 credits
(sample Plan of Work)

MS Thesis Requirements

Graded Courses: **21.0
credits** (may include up
to three non-MAE
approved courses)

Research : **9.0 credits**
MAE 695

Total: 30.0 credits
(sample Plan of Work)

PHD DEGREE REQUIREMENTS (MS FROM NCSU)

PhD (without Minor)

Transfer from NCSU
Masters: 30.0 credits

Graded Courses: 18.0*
credits minimum (may
include up to two non-
MAE approved courses)

***Starting Fall 2016**, New PhD
Students are required to take a
**Minimum of two 700-level
courses.**

Research: 24.0 credits
MAE 895

Total: 72.0 credits
(sample Plan of Work)

PhD (with Minor)

Transfer from NCSU
Masters: 30.0 Credits

Graded Courses: **21.0***
credits (may include up
to three non-MAE
approved courses)

*** Starting Fall 2016**, New PhD
Students are required to take a
**Minimum of two 700-level
courses.**

Research : 24.0 credits
MAE 895

Total: 75.0 credits
(sample Plan of Work)

PHD DEGREE REQUIREMENTS (MS NOT FROM NCSU)

PhD (without Minor)

Transfer from MS
Masters: 18.0 credits

Graded Courses: 18.0*
credits minimum (may
include up to two non-
MAE approved courses)

*** Starting Fall 2016**, New PhD
Students are required to take a
**Minimum of two 700-level
courses.**

Research: 36.0 credits
MAE 895

Total: 72.0 credits
(sample Plan of Work)

PhD (with Minor)

Transfer from MS
Masters: 18.0 Credits

Graded Courses: **21.0***
credits (may include up
to three non-MAE
approved courses)

*** Starting Fall 2016**, New PhD
Students are required to take a
**Minimum of two 700-level
courses.**

Research : 33.0 credits
MAE 895

Total: 72.0 credits
(sample Plan of Work)

Direct-to-PhD: Direct Path from BS to PhD (formally known as e-PhD)

Starting Fall 2013, the MAE department will give admission directly into the PhD program from BS for those who are highly qualified. A minimum GPA of 3.5 is a strict requirement for this path. Those who are admitted to this path will be required to take PhD qualifying exam at the end of the second semester of study. Those who are already in the e-PhD path and have completed MAE 586 will be grandfathered in automatically. Those who are already in the e-PhD path but have not completed MAE 586 will be given until Spring 2014 to complete MAE 586 and continue directly to the PhD path without taking qualifying exam.

A Plan of Work should be completed and submitted to the MAE Graduate Program Office (3113 EBIII) by the end of the student's first semester on campus.

Credit Requirements (72 Credits)

The following table shows recommended schedule for the direct-to-PhD path.

1 st Sem	2 nd Sem	3 rd Sem	4 th Sem	5 th Sem	6 th Sem	7 th Sem	8 th Sem
Graded Course	Graded Course	Graded Course	Graded Course	Graded Course	Graded Course	MAE895	MAE895
Graded Course	Graded Course	Graded Course	Graded Course	Graded Course	Graded Course	MAE895	MAE895
Graded Course	MAE895	MAE895	MAE895	MAE895	MAE895	MAE895	MAE895

- A minimum of 13 letter-grade courses (39 hours) are required, up to 5 of which (15 hours) can be approved non-MAE courses.
- A minor is optional but requires that 3 courses be in the same program.
- 1 hour of MAE 890 must be signed up in the semester prelim exams are taken.
- At minimum, 24 hours of doctoral dissertation (MAE 895) are required for graduation.
- The student has an option of applying for the MS degree "en route" to the PhD when the following conditions are met:
 - 30 credits from letter-grade courses are completed.
 - Qualifying examination is completed.
 - Doctoral Prelim exams (written and oral) are scheduled (MAE 890).

Qualifying Examination (QE)

Starting Fall 2013, any student entering our PhD program without the MS degree must take the QE under the following guidelines:

- QE will be administered by the student's PhD committee, preferably at the end of the second semester but no later than the end of the third semester. (This means the student needs to form his/her PhD committee prior to taking QE.)
- A minimum of three committee members must be involved in administering the exam. If the student declares a minor, a minor representative of the committee must be involved.
- Format of the exam will be determined by the student's PhD committee. Exam problems are to be sent to the student one week prior to the time of the exam. On the day of the exam, the student will orally present the solutions before the committee.
- The student who does not pass the exam will be given a second chance in the semester immediately following the first one.

MS Non-Thesis (on-campus and distance education)

Course Type	Credits
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course (optional non-MAE)	3.0
Graded Course (optional non-MAE)	3.0
Graded Course (optional non-MAE)	3.0
MAE 586	3.0
Total Credits	30

MS Thesis

Course Type	Credits
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course (optional non-MAE)	3.0
Graded Course (optional non-MAE)	3.0
Graded Course (optional non-MAE)	3.0
MAE 695	9.0
Total Credits	30

PhD (MS from NCSU)

***without minor**

Course Type	Credits
Transfer Credits	30.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course (optional non-MAE)	3.0
Graded Course (optional non-MAE)	3.0
*New PhD students starting from Fall 2016 are required to take a Minimum of two 700-level courses	
MAE 895	24.0
Total Credits	72

PhD (MS from NCSU)

***minor**

Course Type	Credits
Transfer Credits	30.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course (minor area)	3.0
Graded Course (minor area)	3.0
Graded Course (minor area)	3.0
*New PhD students starting from Fall 2016 are required to take a Minimum of two 700-level courses	
MAE 895	24.0
Total Credits	75

PhD (non-NCSU MS)

***without minor**

Course Type	Credits
Transfer Credits	18.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course (optional non-MAE)	3.0
Graded Course (optional non-MAE)	3.0
*New PhD students starting from Fall 2016 are required to take a Minimum of two 700-level courses	
MAE 895	36.0
Total Credits	72

PhD (non-NCSU MS)

***minor**

Course Type	Credits
Transfer Credits	18.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course	3.0
Graded Course (minor area)	3.0
Graded Course (minor area)	3.0
Graded Course (minor area)	3.0
*New PhD students starting from Fall 2016 are required to take a Minimum of two 700-level courses	
MAE 895	33.0
Total Credits	72