

Department of Mechanical and Aerospace Engineering

MS and PhD

Degree Requirements

Updated Fall 2016

MS Degree Requirements (Non-thesis)

Graded Courses: 27.0 credits
 - May include up to three non-MAE approved courses

Project: 3.0 credits

Total: 30.0 credits *

Sample Plan of Work

Course Type	Credits
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE 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	30.0

MS Degree Requirements (Thesis)

Graded Courses: 21.0 credits

- May include up to three non-MAE approved courses

Research: 9.0 credits

Total: 30.0 credits

Sample Plan of Work

Course Type	Credits
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE 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	30.0

PhD Degree Requirements (without Minor)

Sample Plan of Work

If previous MS is from NCSU

MS Transfer Credit: 30.0*

Graded Courses: 18.0 credits

- May include up to two non-MAE approved courses

Research: 24.0 credits

Total: 72.0 credits

**To receive 30.0 hours of transfer credit there can be no break in enrollment between the masters and doctoral program. Otherwise, only 18.0 credit hours will be accepted.*

-Starting Fall 2016, all PhD students are required to take a minimum of two 700-level courses

Course Type	Credits
Transfer Credit	30.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
Graded Course (Optional non-MAE)	3.0
Graded Course (Optional non-MAE)	3.0
MAE 895	24.0
Total Credits	72.0

PhD Degree Requirements (with Minor)

Sample Plan of Work

If previous MS is from NCSU

MS Transfer Credit: 30.0*

Graded Courses: 21.0 credits

- May include up to three non-MAE approved courses for minor

Research: 24.0 credits

Total: 75.0 credits

**To receive 30.0 hours of transfer credit there can be no break in enrollment between the masters and doctoral program.*

Otherwise, only 18.0 credit hours will be accepted.

-Starting Fall 2016, all PhD students are required to take a minimum of two 700-level courses

Course Type	Credits
Transfer Credit	30.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
Graded Course (minor area)	3.0
Graded Course (minor area)	3.0
Graded Course (minor area)	3.0
MAE 895	24.0
Total Credits	75.0

PhD Degree Requirements

(without Minor)

Sample Plan of Work

If previous MS is **NOT** from NCSU

MS Transfer Credit: 18.0

Graded Courses: 18.0 credits

- May include up to two non-MAE approved courses

Research: 36.0 credits

Total: 72.0 credits

Course Type	Credits
Transfer Credit	18.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Courses	3.0
Graded Course (Optional non-MAE)	3.0
Graded Course (Optional non-MAE)	3.0
MAE 895	36.0
Total Credits	72.0

*starting Fall 2016, all PhD students are required to take a minimum of two 700-level courses

PhD Degree Requirements (with Minor)

Sample Plan of Work

If previous MS is **NOT** from NCSU

MS Transfer Credit: 18.0

Graded Courses: 21.0 credits

- May include up to three non-MAE approved courses for minor

Research: 33.0 credits

Total: 72.0 credits

*starting Fall 2016, all PhD students are required to take a minimum of two 700-level courses

Course Type	Credits
Transfer Credit	18.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
Graded Course (minor area)	3.0
Graded Course (minor area)	3.0
Graded Course (minor area)	3.0
MAE 895	33.0
Total Credits	72.0

Direct-to-PhD Degree Requirements

GPA: 3.5

Graded Courses: 39.0 credits (minimum)

-May include up to five non-MAE approved courses

Minor Courses (optional): 9.0 credits

- If not seeking a minor, additional MAE graded courses or research should replace these credits.

Research: 24.0 credits (minimum)

Total: 72.0 credits

Sample PhD Plan of Work

Course Type	Credits
Transfer Credit (from MAE non-thesis MS)	30
MAE Graded Course	3.0
MAE Graded Course	3.0
MAE Graded Course	3.0
Graded Course (minor area) or MAE 895	3.0
Graded Course (minor area) or MAE 895	3.0
Graded Course (minor area) or MAE 895	3.0
MAE 895	24.0
Total Credits	72.0

*starting Fall 2016, all PhD students are required to take a minimum of two 700-level courses