

ACCELERATED BS/MS DEGREE PROGRAMS

MECHANICAL AND AEROSPACE ENGINEERING

The Accelerated Bachelor's/Master's (ABM) degree program with the Department of Mechanical and Aerospace Engineering at NCSU is designed to give qualified NCSU undergraduates the opportunity to complete a master's degree in just 12 months beyond the bachelor's degree. Its goal is also to attract our best Mechanical and Aerospace Engineering undergraduate students into our graduate program.

How does it work? Graduate level courses in the ME or AE curriculum may be “*double counted*” to satisfy requirements of both the BS degree and the MS degree. A minimum of three courses (9 semester hours) and a maximum of four courses (12 semester hours) may be counted toward both the undergraduate and graduate degrees.

Graduate Admission Requirements for the Accelerated BS/MS Degree Program

- At least an overall GPA of 3.7 at the time of admission to the ABM program, and a 3.5 GPA at the time the undergraduate degree program is completed.
 - The ABM Plan of Work is completed during the sixth semester of the student's undergraduate academic program. Undergraduate students should apply to graduate school in the second to last semester of their undergraduate degree.
 - Transfer students must have completed two semesters as a full-time student at NC State to qualify for the ABM program.
 - If the undergraduate GPA drops below 3.50 at any point after completing the ABM Plan of Work, the student will be ineligible to apply for admission to the ABM graduate program.
- A grade of B or better is required for any courses to be counted toward both degrees.
 - Receiving a B- or lower grade in any “double counted” course makes you ineligible for the Accelerated BS/MS degree program.
- Students must complete all requirements for the non-thesis MS degree in no more than 12 months from the completion of the BS degree.

IMPORTANT: The MAE Undergraduate Director of Advising monitors the completion of the undergraduate degree to ensure approved courses were successfully completed. Any deviation from the *approved courses taken as an undergraduate student* section requires a new ABM Plan of Work be completed and approved.

Graduate Admission Procedure for Accelerated BS/MS Degree Program

First, consult with the Undergraduate of Undergraduate Advising to be advised on the double-counted *courses completed as an undergraduate student*. Next, submit the ABM Plan of Work to the MAE Graduate Office (EB3 – 3113). The MAE Director of Graduate Programs will schedule an advising appointment with the student to outline *courses completed as a graduate student*.

Once the Director of Graduate Programs approves the ABM Plan of Work, undergraduate students should prepare to apply for admission to the Graduate School.

Note: Undergraduate students MUST be admitted to the Graduate School during the term (Fall/Spring) that immediately follows their undergraduate degree completion. Visit the MAE graduate admissions [How to Apply](#) website to view admission deadlines.

- Complete a graduate admission application via the Graduate School's [Application Management](#) portal (applygrad.ncsu.edu/apply).
 - An ABM admission application MUST include a NCSU transcript (unofficial is acceptable), three (3) Letters of Recommendation, and a Personal Statement of Career Interests and Goals.
 - ABM admission applications do not require GRE test scores.

Possible course substitutions¹ during the 4th year for Accelerated BS-MS program

Mechanical Engineering BS-MS Program	
Original Course in Undergraduate Program	Substitution Course in Graduate Program¹
MAE 435 <i>Principles of Automatic Control</i>	MAE 521 <i>Linear Control and Design of MIMO Systems</i>
MAE 4XX Departmental Elective (You may substitute for up to three departmental elective courses)	MAE 5XX or an approved non-MAE 4XX or 5XX level course ²
MAE 4XX Departmental Elective (You may substitute for up to three departmental elective courses)	MAE 5XX or an approved non-MAE 4XX or 5XX level course ²

Aerospace Engineering BS-MS Program	
Original Course in Undergraduate Program	Substitution Course in Graduate Program¹
MAE 435 <i>Principles of Automatic Control</i>	MAE 521 <i>Linear Control and Design of MIMO Systems</i>
<i>Propulsion Elective</i>	MAE 504 <i>Fluid Dynamics of Combustion I</i>
MAE 4XX Departmental Elective	MAE 5XX or an approved non-MAE 4XX or 5XX level course ²

Fall Graduate Course Offerings³	Spring Graduate Course Offerings³
Any MAE 500-level MAE course An approved non-MAE 400-level or 500-level course	Any MAE 500-level MAE course An approved non-MAE 400-level or 500-level course
Visit the NCSU Course Catalog to view a complete list of MAE Course Offerings	

¹Note when signing up for classes, graduate course availability is subject to change and time conflicts can arise requiring you to modify your BS-MS plan.

²Approval from the MAE DGP required. Only one non-MAE 4XX course is permitted for graduate credit.

³See the complete university listing of graduate courses for more details: [NCSU Course Catalog](#).

Questions? Contact the appropriate MAE student advising office

- MAE undergraduate students, contact the Director of Undergraduate Advising in the [Undergraduate Advising Office](#)
- MAE graduate students, contact the Director of Graduate Programs in the [Graduate Advising Office](#)

North Carolina State University
The Graduate School

ACCELERATED BACHELOR'S/MASTER'S PLAN OF WORK

To: Dean of The Graduate School

From: Program Director: _____
Director's name/Program name

Student Information:

Name: _____ ID Number: _____ UGPA: _____

Degree/Program: _____ Signature: _____

Courses taken as undergraduate student:

Course Description	Prefix/No.	Hrs	Term
To be double-counted (12 hrs max):			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Sub-total

To be applied to Graduate Degree Only (6 hrs max):			
_____	_____	_____	_____
_____	_____	_____	_____

Sub-total

Courses taken as graduate student:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Sub-total

Total

Undergrad Coord Signature/Date: _____

DGP Signature/Date: _____



* Upload to Slate for Graduate School approval.