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## MA 405 "Introduction to Linear Algebra" Spring 2019

**Instructor:** [Dr. Hoon Hong](#), SAS 3274, [hong@ncsu.edu](mailto:hong@ncsu.edu), Office Hour: Tue/Thu 2:50--4:00 PM

**Grader:** Stephen Lacina ???, [slacina@ncsu.edu](mailto:slacina@ncsu.edu), Office Hour: M?????

**Textbook:** No textbook will be required. The lecture is self-contained.

**Reference:** Introduction to Linear Algebra by Jim DeFranza and Daniel Gagliardi.

**Objectives:** Learn how to solve and prove linear system of equations, using vector-matrix notations.

**Prerequisites:** MA 241 (Credit is not allowed for both MA 305 and MA 405)

**Homeworks:** [HW1](#), [HW2](#), [HW3](#)

**Supplement:** [Proof of  \$\det\(a,c\) + \det\(b,c\) = \det\(a+b,c\)\$](#) , [Pioneers of Matrix Decompositions](#), [ImageCompression.mw](#), [class.jpg](#), [Watermark.mw](#), [original.jpg](#), [watermark.jpg](#), [Convolution.pdf](#)

**Grading:** The letter grade will be determined from the total numeric grade as follows:

Letter Grade	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
Total Numeric Grade	$\geq 97.00$	$\geq 93.00$	$\geq 90.00$	$\geq 87.00$	$\geq 83.00$	$\geq 80.00$	$\geq 77.00$	$\geq 73.00$	$\geq 70.00$	$\geq 67.00$	$\geq 63.00$	$\geq 60.00$	$< 60.00$

The total numeric grade will be the sum of several numeric grades as follows:

Type	Midterm 1	Midterm 2	Midterm 3	Final	Attendance	Total
Max Numeric grade	20	20	20	35	5	100

**Tests:**

*Midterm 1* Feb 7 (Thu). [Answer](#)

*Midterm 2* Mar 19 (Tue). [Answer](#)

*Midterm 3* Apr 18 (Thu). [Answer](#)

*Final* May 7 (Tue). 8:00-11:00 AM

All tests are *closed* book/notes.

You should bring calculators to the tests.

However, you are *NOT* allowed to bring computer algebra systems such as Maple to the tests.

**Attendance:** *Required*.

The attendance grade is calculated as "5 \* the number of attended classes / the total number of classes".

([Officially excused absence](#) will be counted toward attended classes).

Seats will be assigned at the beginning of the semester.

Instructor will not provide extra-help on missed lectures, unless there is an official excuse.

**Attitude:** You must not harm others by talking (even quietly) during the lecture unless the instructor gave you the permission to do so.

Each violation will cause 0.5 penalty to your attendance grade.

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**University** We are required to adhere to [University Policy and Regulations](#).  
**Regulations:** You are strongly recommended to read the regulations to learn about your rights and duties. In particular,  
[Absences and Missed works](#)  
[Disability Accomodation](#)  
[Code of Student Conduct](#)

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