LINEAR ALGEBRA II – SPRING TERM 2019
COURSE INFORMATION

Preliminary schedule.

	Date	Tutorial (2b)	Lecture topic	Section
1	11th April		Vector spaces	4.1
2	16th April	18th April	Linear maps	4.2
3	23rd April	25th April	The matrix of a linear map	4.3
4	7th May	9th May	Mathematical induction	
5	14th May	16th May	The determinant of a linear map	6.1
6	21st May	23rd May	Properties of the determinant, *I*	6.2, 6.3
7	28th May	30th May	Properties of the determinant, *II*	6.2, 6.3
	4th June	6th June	**Midterm exam**	
8	11th June	13th June	Eigenvalues and eigenvectors, *I*	7.1–7.4
9	18th June	20th June	Eigenvalues and eigenvectors, *II*	7.1–7.4
10	25th June	27th June	Eigenvalues and eigenvectors, *III*	7.1–7.4
11	2nd July	4th July	Linear differential equations, *I*	9.1–9.3
12	9th July	11th July	Linear differential equations, *II*	9.1–9.3
13	16th July	18th July	Linear differential equations, *III*	9.1–9.3
14	23rd July	25th July	Review	
	30th July		**Final exam**	

Times and venues.

- The *first lecture* takes place on *Thursday the 11th April*, 14:45–16:15 in room A407 in Science building A.
- *All other lectures* take place on Tuesdays 10:30–12:00 in room C25 in the Liberal Arts and Sciences main building.
- The *tutorials* take place on Thursdays in the rooms A407 and A408 in Science building A, time 14:45–16:15.

Examination. The examination consists of a *midterm exam* and a *final exam*, together with *quizzes* and *homework*.

- The midterm exam is held on Tuesday the 6th June, and the final exam on Tuesday the 30th July.
- *Quizzes:* a small quiz about the content of the previous two lectures will be given on the following dates:

  23rd April, 14th April, 28th May, 25th June, 9th July, 23rd July.

- *Homework:* There will be a number of homework assignments during the course. Collaboration in solving the homework is encouraged, but each participating student must submit written solutions individually. Students should be prepared to explain their solution to the teacher on demand.

Grading. A total score (0–100 %) is calculated as the weighted average of the scores obtained on the different parts of the examination, as follows:

- **5 %** : quizzes
- **10 %** : homework
- **35 %** : midterm exam
- **50 %** : final exam

The final grade is determined by the total score:

    F: 0–59 %,   *C*: 60–69 %,   *B*: 70–79 %,   *A*: 80–89 %,   *S*: 90–100 %.

Textbook. *Linear Algebra with Applications*, Otto Bretscher, Pearson editions (available at the Central and Science libraries)

Repeat exam. There will be a repeat examination of the course during the summer vacation. It is preliminarily scheduled to take place in late August or early September.

Contact. Erik Darpö

Office: Science Building A, office no A-331
E-mail: *darpo@math.nagoya-u.ac.jp*
Web page: http://www.math.nagoya-u.ac.jp/~darpo
Telephone: 052-789-5612