This worksheet explains what we are going to cover this week, and is meant to help you plan how to work with the material. Please consult the first worksheet for more detailed explanations.

**Schedule:** The schedule is as last week. Note that the SI session on Tuesday is in rooms 309BC, and that Anna-Maria will probably schedule a Q&A session in the same room Wednesday 13-15.

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>08:15-10:00</td>
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<td></td>
<td>SI</td>
<td>Linear Algebra</td>
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<tr>
<td>10:15-12:00</td>
<td>Lecture Linear Algebra</td>
<td>Lecture Analysis</td>
<td>Problem seminar Analysis</td>
<td>Lecture Linear Algebra</td>
<td>Problem seminar Analysis</td>
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<tr>
<td>12:00-13:00</td>
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<td>13:15-15:00</td>
<td>Problem seminar Linear Algebra</td>
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<td>Problem seminar Linear Algebra</td>
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<tr>
<td>15:15-17:00</td>
<td></td>
<td>SI Analysis</td>
<td>SI Analysis</td>
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<td>Lecture Analysis</td>
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</tbody>
</table>

**Rotating schedule:** As an extra precaution, we choose to use invitations this week also. Please confirm your invitation for next week at the latest by Sunday by clicking here.

- **Tuesday:** Mentor groups 1 – 8 (58 invited students)
- **Wednesday:** Mentor groups 9 – 16 and 201 (57 invited students)
- **Friday:** Mentor groups 1 – 8 (58 invited students)

**Obligatory activities related to this week:**

- *Confirm invitation to class.* Deadline is Sunday 18 October.
- *Mentor meeting.* Themes for the meeting this week is to discuss feedback for homework 3. Also, if there is anything you would like to discuss with your mentor ahead of the the mid-term exam, now is the time to do it (as you’ll have no meeting with them next week).
- *Homework:* No new homework this week. For the students who did not pass homework 3, the deadline for resubmission is on Friday.
Tuesday 20/10:

- **How to prepare for the lecture**: This will be a "Friday-style" lecture focusing the first part of the course. A mentimeter-link will be provided in a course announcement on Monday so that you can post questions you would want us to address.

Wednesday 21/10:

- **How to prepare for the problem seminar**: Work through the mid-term examinations from Spring 2020 and Fall 2019 (available on Canvas under "Selection of previous examinations"). The problem seminar will focus on the solutions for these mid-term exams, as well as open up for related discussions.

  - Warning: The theory needed for problem 4 from Fall 2019 has not yet been covered in the course, and should be disregarded.

Friday 23/10:

- **How to prepare for the problem seminar**: Work through the mid-term examinations from Fall 2018 and Spring 2018 (available on Canvas under "Selection of previous examinations"). The problem seminar will focus on the solutions for these mid-term exams, as well as open up for related discussions.

  - Warning: We have not covered the theory needed to solve problems 3b on neither midterm, and so these problems should be disregarded. However, you should be able to solve 3a just by noting that \( \int f(x)dx = F(x) + C \) if and only if \( F'(x) = f(x) \).

- **How to prepare for the lecture**: This will be a "Friday-style" lecture focusing the first part of the course. A mentimeter-link will be provided in a course announcement on Monday so that you can post questions you would want us to address.

- **Modifications to lecture notes**:

  - None (however, note that at some point I will modify Worksheet 7 – and potentially also to some of the earlier worksheets – to reflect some of the changes we have already discussed in relation to Chapter 8).