# Math 315, Numerical Analysis

## Fall, 2015

<table>
<thead>
<tr>
<th>Professor</th>
<th>James Nagy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>E426 MSC</td>
</tr>
<tr>
<td>Office hours</td>
<td>W 11:00–12:30</td>
</tr>
<tr>
<td></td>
<td>F 10:30–12:00</td>
</tr>
<tr>
<td></td>
<td>and by appointment</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:nagy@mathcs.emory.edu">nagy@mathcs.emory.edu</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.mathcs.emory.edu/~nagy">www.mathcs.emory.edu/~nagy</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TA</th>
<th>Yunyi Hu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office hours</td>
<td>M 2:30pm - 4:30</td>
</tr>
<tr>
<td></td>
<td>in N410 MSC</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:yunyi.hu@emory.edu">yunyi.hu@emory.edu</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TA</th>
<th>Claire Lin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office hours</td>
<td>W 3:00-5:00</td>
</tr>
<tr>
<td></td>
<td>in E308 MSC</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:claire.lin@emory.edu">claire.lin@emory.edu</a></td>
</tr>
</tbody>
</table>

**Text book:** *Introduction to Scientific Computing using Matlab*


You can obtain chapters of the book from the course Blackboard page

## Course Information

**Lectures, Office Hours, and Help Sessions.**

- **Lectures:** Please arrive on time, and attend the section in which you are enrolled.

- **Help Sessions:** There will be several additional help sessions scheduled outside the normal lecture – especially early in the semester to introduce MATLAB concepts. These help sessions will be announced in the lecture, and will be scheduled as needed.

- **Office Hours:** There will be very little time in the lectures to go over any homework and suggested practice problems. If you need help, please come to office hours. If you cannot come to office hours, please try to make an appointment.
Grades.

There will be several quizzes and homework projects, two midterm exams, and a final exam. The final grade will be determined as:

\[
\begin{align*}
10\% & \text{ Quizzes} & 20\% & \text{ Homework} & 40\% & \text{ Midterm exams} & 30\% & \text{ Final exam} \\
\end{align*}
\]

Tests.

There will be 2 tests on the following dates:

Thurs., Oct. 1, Thurs., Nov. 12

Makeup tests will be given only in extreme situations.

Quizzes.

There will be several short quizzes given throughout the semester. Generally, these quizzes will not be announced, and will be given at the start of the lecture. Three lowest quiz grades will be dropped. There will be no makeup quizzes – if you miss one, either because you arrive late or you miss class (for any reason), then it is a quiz that you will drop.

Final Exam.

There are two final exam times:

- 8:30 section has the final exam on Tuesday, December 15, 8:00–10:30am.
- 10:00 section has the final exam on Tuesday, December 15, 3:00–5:30pm.

I will consider requests to take the final exam at either one of these times, independent of what section you are in. These requests must be made prior to the last day of classes.

Homework Projects.

Students are expected to do all computing assignments using MATLAB.

The first homework project will be done individually.

The remaining projects will be done in teams to be determined during the first two weeks of the semester. Collaboration is allowed (expected) within each team, but exchange of information between members of different teams is strictly forbidden.

Important notes:

- Homework turned in one day late will receive a 20% deduction.
- Homework turned in two days late will receive a 50% deduction.
- Homework will not be accepted more than two days after the due date.

Exceptions to this policy will be granted only in extreme situations.
Practice Exercises.

I will be providing a list of suggested problems from the book for each section we cover; you can find these on the course webpage:

http://www.mathcs.emory.edu/~nagy/courses/fall15/315.html

You are strongly recommended to do all of these problems. You may work together on the problems, have a conference to discuss class material, etc. These problems should be helpful in preparing for the tests.

Class Attendance.

Attendance is not required, but strongly encouraged.

If you miss a class, then you should get a copy of the notes from one of your classmates. If you come to class, then I expect you to arrive on time and stay until the end. In particular, you should not leave in the middle of a lecture. If it is necessary to leave early, then I expect an explanation. Hopefully breaks should not be needed to go to the bathroom, to answer your phone, etc. If such a break is needed, I expect an explanation.

Please pay attention during the lecture – in particular, please do not have any open laptops, phones, magazines, newspapers, etc..

Honor Code.

All students must adhere to the provisions of the Honor Code. For more information, see: http://college.emory.edu/home/academic/policy/honor_code.html