

**Math 4401**  
**Numerical Analysis**  
**Syllabus**  
**Fall, 2018**

**Tim Olson, Professor**

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Office Hours: 7<sup>th</sup> period MWF or by appointment

**Topics:**

1. Numerical Equation Solving Methods
2. Interpolation Methods
3. Least Squares Approximation
4. Numerical Approximation of Integrals
5. Numerical Approximation of Derivatives
6. Methods for solving Differential Equations
7. Methods for solving Partial Differential Equations

**Suggested Books:**

- Introduction to Numerical Analysis, by Kendall Atkinson

**Grading Policy:**

- There will be 3 in-class tests worth 20% apiece
- There will be 2 projects worth 20 % apiece
- There will be an optional cumulative final if you would like to improve your grade

**Honesty and Honor Code:** Students should be aware of the honor code of the university and must behave appropriately

**Class Attendance and make-up exams:**

“Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.”

**Accommodations for Disabilities:**

“Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must

be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.”

**Additional Grading Info:**

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

**Instructor Review Info:**

“Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.”

**Campus Resources:**

**Health and Wellness**

**U Matter, We Care:**

If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

**Sexual Assault Recovery Services (SARS)**

Student Health Care Center, 392-1161.

University Police Department, 392-1111 (or 9-1-1 for emergencies).  
<http://www.police.ufl.edu/>

**Academic Resources**

E-learning technical support, 352-392-4357 (select option 2) or e-mail to [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu). <https://lss.at.ufl.edu/help.shtml>.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling.  
<http://www.crc.ufl.edu/>