

Syllabus: Numerical Analysis - MATH3806

Course Information

- Course Dates: September 9th to December 11th
- Online lectures : Videos will be posted on `culearn`.
- Online Lab.
- Online office hour : `zoom` meeting every Wednesday: 2:30-3:30pm.
- Material, announcements, online meeting info., etc will be posted on `culearn`.

Instructor

- Course Instructor: Emmanuel Lorin

Assessment

For each assignment or exam, students will post their solution on `culearn` in a form of a **unique** PDF file.

- Assignments 25%.
- Midterm Exam 50%.
- Exam 50%.

References

- Books: *Numerical Mathematics and Computing*, W. Cheney and D. Kincaid. 7th edition, Brooks/Cole.
- Programming: `matlab`

Course Content

- Introduction to Numerical Analysis & Mathematical Preliminaries
- Computer Arithmetic
- Nonlinear Equations
- Polynomial Interpolation
- Numerical Integration
- Numerical Methods for Ordinary Differential Equations