

MEC512 – Mechanics of Viscous Fluids

The State University of New York, Korea

Fall 2019

Instructor: Mahdi Mohebbi, B622 Academic Building (mahdi.mohebbi@sunykorea.ac.kr)

Lectures: Thursdays 12:30-03:20 PM (B204 Academic Building)

Textbook: White F. M., "Viscous Fluid Flow", McGraw-Hill Education, 3 ed., 2005

Office Hours: Tuesday and Thursday 10:30-11:30 AM, Wednesday 3:00-4:00 PM (or by appointment)

Grading:

Homework	25%
Midterm (Nov. 1, 2019)	35%
Final Exam (TBD)	40%

The grades will not be touched! No rounding, fitting to the curve or any other statistical operation will be performed (e.g. 93.99 is not 94.00).

Policies:

- Homework and their solution will be posted on the Blackboard.
- The Blackboard can be accessed at <https://blackboard.stonybrook.edu/>.
- The time and details about the exam will be announced in the class (and also posted on the Blackboard).
- It is the responsibility of students to make sure that they can access the Blackboard and they have a working email registered with it. The Blackboard should be checked frequently for new materials.

Course Outline: Covering of the following subjects as time permits:

- Review of Continuum Mechanics and the Navier-Stokes Equations.
- Boundary Conditions, Vorticity
- Solutions to basic flow configurations (Couette Flow, Poiseuille Flow)
- Stokes Equations, Creeping Flow
- Boundary Layer Theory

Disability Support Services (DSS):

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact One-Stop Service Center, Academic Building A201, (82) 32-626-1117. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Academic Integrity Statement:

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website:
http://www.stonybrook.edu/commcms/academic_integrity/index.html

Critical Incident Management Statement:

The State University of New York, Korea expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.