

# MEC364 – Introduction to Fluid Mechanics

The State University of New York, Korea

Fall 2018

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

**Lectures:** Mondays and Wednesdays 5:00 PM-6:20 PM

**Recitations:** Wednesdays 10:30 AM-11:23 AM

**Textbook:** Philip M. Gerhart, Andrew L. Gerhart, John I. Hochstein, “Munson, Young and Okiishi's Fundamentals of Fluid Mechanics”, Wiley, 8<sup>th</sup> ed. (or the 8<sup>th</sup> Global Edition), 2015

**Office Hours:** Monday and Wednesday 3:45-4:45 PM, Tuesday 10:30-11:30 AM (or by appointment)

**Grading:**

Homework Exercises	20%
Quizzes and Recitation	10%
Midterm (Oct. 22, 2018)	30%
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 exercises and the corresponding solutions will be posted on the Blackboard. Original students' solutions will be held by the department. Students can view their graded work upon request.
- The Blackboard can be accessed at <https://blackboard.stonybrook.edu/>.
- The time and details about the exams will be announced in the class (and also posted on the Blackboard) and may subject to change.
- It is the responsibility of students to make sure that they can access the Blackboard and that they have a working email registered with it. The Blackboard should be checked frequently for new materials.
- There will be random quizzes during the course.
- A calculator may be required for calculations during the exams and for homework exercises.

**Course Outline:**

- Fundamental concepts in fluid mechanics
- Fluid statics
- Basic equations (integral and differential forms)
- Incompressible flow
- Dimensional analysis
- Internal and external incompressible viscous flows

**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](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.

## **Attendance Policy of SUNY Korea**

1. All students of SUNY Korea are required to attend every class.
2. Unexcused absences will affect seriously the student's final grade in the course.
3. If a student has over 20% unexcused absence, the student's final course grade will be an 'F'.

### Example)

- If the class is a 150 minute class, and is held once a week, the 4th unexcused absence of a student will lead to an F grade of the course.
  - If the class is a 75 minute class, and is held twice a week, the 7th unexcused absence of a student will lead to an F grade of the course.
  - If the class is a 50 minute class, and is held three times a week, the 10th unexcused absence of a student will lead to an F grade of the course.
  - In Intensive English Course (IEC), if a student misses the class more than 40 hours in a semester, the student will receive an F grade on the course.
4. Students should report the reason of absence to the instructor in advance, or immediately after the absence.
  5. When a student excuses his/her absence, the student must provide documentation of the reason for the absence to the instructor.
  6. The instructor of the course reserves the right to excuse absences.
  7. The course instructor may excuse the absence if the submitted documentation fulfills the conditions below.
    - Extreme emergencies (e.g. death in the family)
    - Severe medical reasons with doctor's note (Not a slight illness)
    - Very important events (e.g. national conference, official school event)
  8. At the end of semester, the course instructor should submit a copy of the attendance sheet to the Academic Affairs Office.