

# ENG 095: Introduction to Engineering

**Dr. Seung-yun Kim**

**Assistant Professor** of Dept. of Electrical and Computer Engineering  
**First Year Coordinator** of School of Engineering

# Today

- Attendance
- Introductions
- Goals of this course (ENG 095)
- Goals of Engineering Seminar (ENG 091)
- Next class
- HW Assignments

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## **Office Hour:**

Tue. 2:00PM – 3:20 PM

Fri. 2:00 PM – 3:20 PM, or by appointment.

Open Door Policy: if the door is cracked open and it's ok to knock.

# Dr. Kim's Website: [www.DrSeungKim.com](http://www.DrSeungKim.com)

SEUNG-YUN KIM, PH.D.

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## ENG 142 PROJECT SCHOOL COMPETITION

TCNJ, School of Engineering: Textbook Transport...



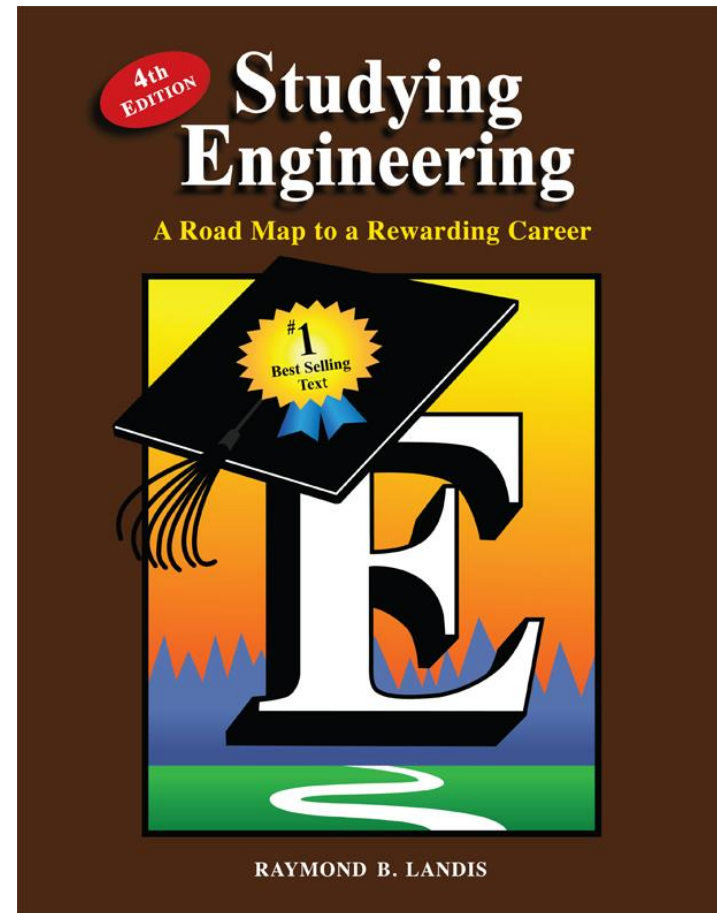
# Course Description

- The course provides an introduction to the engineering profession.
- Students are provided with an orientation to the program as well as the engineering specializations offered by the department.
- Areas of study include academic success strategies, time management, and the development of skills needed for successful group work. (graded P/U)

# Required Textbook

- **Required Textbook:**

- Studying Engineering: A Roadmap to a Rewarding Career
  - Fourth Edition
  - By Landis, Raymond
  - Discovery Press
  - 2013
  - ISBN: 978-0979348747



# Course Requirements

- Students are required to attend all lectures and complete all homework assignments.
- Attendance is required for all classes. If absence is necessary due to illness or emergency, please contact the instructor **prior to the class meeting time** via telephone or email.
- Excusable excuses?

# Course Requirements (cont.)

- Sometimes we need to miss class, but you need to handle the situation well. I want your opinion if the following excuses are valid.
- The excuses you are about to hear are actual excuses told to a professor (names of places have been changed to protect the identity of the student and institution!)



# Course Requirements (cont.)

- I missed class yesterday because I had an accident and totaled my jeep. I spent the night in the Emergency Room! **Valid**
- I went on a cruise to the Bahamas with my parents during their spring vacation, which is not the same week as ours. **Not Valid**
- In my religion, **next Tuesday** is a holy day, and I will miss class.  
**Valid** – what makes this valid? **Advance warning.**

# Course Requirements (cont.)

- I went to my cousin's wedding in Wyoming, and it was such a big party weekend, I did not have time to finish my homework. **Not Valid** – Honest, but not valid.
- I missed class yesterday because I got the flu.  
**Valid**, but let professor know as soon as possible – **before** class if possible. I have gotten emails in the morning warning me that a student may miss class.
- I will miss the lab **next week** because I will be running a soccer clinic at a high school – I'm going to make \$200 bucks! **Not Valid**

# Course Requirements (cont.)

- The project is only half done... I got bored halfway through.

**Not Valid.** You **will** have work that may not be the most interesting to you, but you must persevere! Take advantage of every assignment to improve your knowledge, skills, and abilities.

- I had to meet my girlfriend for dinner... ...in NYC....

**Not Valid**

# Course Requirements (cont.)

- Bottom line – be professional in all that you do!
  - Imagine telling the VP of Engineering in your first job some of these excuses.
  - Treat your interactions with your professors as if it was your job – because it is!
  - The more you begin to **behave like a professional engineering** here, the more successful you will be in your early career!
  - We will explore more interactions with professors in this course.

# Course Requirements (cont.)

- Homework will be assigned in class and must be handed in at the beginning of the class period. **NO LATE HOMEWORK WILL BE ACCEPTED.**
- All homework must conform to the following standards:
  - All assignments must be done on 8.5" x 11" paper. Multiple pages must be stapled unless otherwise directed.
  - All assignments must include a heading in the upper right hand corner with the student's name, assignment number, due date, course code, and section number (e.g. ENG 095 – 01).
  - All work must be neat and legible and include diagrams as needed.
  - All written assignments should be completed using Microsoft Office or equivalent software.

# Course Requirements (cont.)

- **Cell Phone and Text Messaging Policy**

- Cell phones are not permitted during class.
- Please turn your cell phone off or put it onto silent (in case of an emergency situation) before class starts.
- Do not place your cell phone on the desk.
- Any student whose cell phone rings (or text messaging) during class will be asked to leave and marked as an absence.

# Grading

- Students will be evaluated on their performance based on participation (attendance) and homework assignments.
- There will be no exams in this class. This course is graded as **Pass (P)** or **Unsatisfactory (U)**.
- Students are required to participate in all classroom discussions and activities, therefore attendance is required – **an unexcused absence** will result in an **unsatisfactory grade**.
- Excused absences will be granted only prior to the class meeting time. For emergency situations where an excused absence is not possible, the student will need corroborating evidence of the emergency.
- Attend other section of the course?

# Grading (cont.)

There are **seven** homework assignments required in this course and the students need to accumulate **at least 65** points to pass the course – each assignment will be graded on the following scale:

✓+ (Check plus) = 15 points (Extraordinary results)

✓ (Check) = 10 points (Satisfies requirements of assignment)

✓- (Check minus) = 5 points (Does not completely satisfies requirements of assignment)

no check = 0 points

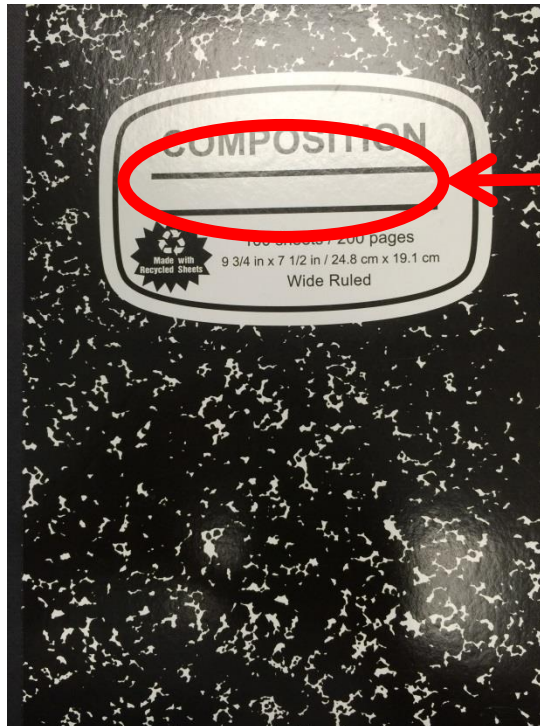


# Grading (cont.)

At least **65 points** to pass the course – 7 hw (10 pts each)

Some extra points available

5 pts – composition notebook



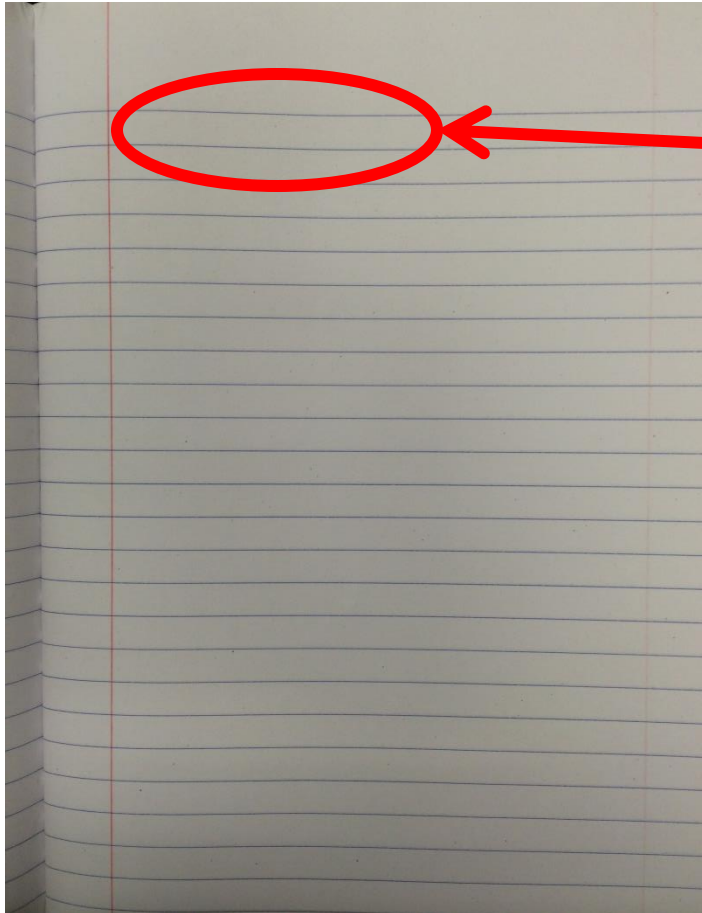
Name & Class Info:

**ENG 095, John Doe**

**Return to Dr. Kim (AR 151)**

# Grading (cont.)

5 pts – composition notebook



Date Entry: **Sept. 10, Wed.**

Bring it to my office One Day!

# Other Policies

- Attendance Policy:  
<http://www.tcnj.edu/~recreg/policies/attendance.html>
- Academic Integrity Policy  
<http://www.tcnj.edu/~academic/policy/integrity.html>
- Americans with Disabilities Act (ADA) Policy  
<http://www.tcnj.edu/~affirm/ada.html>

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- **Goals of this course (ENG 095)**
- Goals of Engineering Seminar (ENG 091)
- Next class

# Goals of the Course

- Foster and support students' academic success.
- Help students gain information about the engineering profession and the majors offered.

# Rules of the Road for ENG 095

- Participation
- Reading & Homework Expectations
  - HW #1 already posted on Canvas!

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# ENG 091 & 092

## TCNJ School of Engineering Engineering Seminar ENG 091/092

ENG 091 Requirements	ENG 092 Requirements
Professional Organization Membership <sup>1</sup>	Professional Organization Meeting Attendance <sup>2</sup>
Professional Organization Meeting Attendance <sup>2</sup>	Technical Seminar <sup>3</sup>
Technical Seminar <sup>3</sup>	Contemporary Issues Presentation <sup>4</sup>

*Completion of program requirements will be posted on Canvas every two weeks\**



*Receiving credit for this course is the responsibility of each student. You can complete course requirements at your pace throughout the semester; however, in order to receive credit, all requirements must be met by the end of the semester.*

**1Professional Organization Membership** – proof of membership required. Scan a copy of the organization’s membership card or a copy of the membership application receipt and upload to the SOCS drop box.

**2Professional Organization Meeting Attendance** – proof of attendance required. You must sign in at the meeting on the School of Engineering sign-in sheet available at the event.

**3School of Engineering Technical Seminar or “Approved” Outside-of-the School Technical Presentation** – proof of attendance required. You must sign in at the beginning of the seminar on the School of Engineering sign-in sheet available at the event.

**4Contemporary Issues Presentation** – attendance to a Liberal Learning seminar in either arts & humanities or social science and history required. Submit a completed School of Engineering Contemporary Issues Presentation Attendance form (50-100 word summary).

# Student Organizations

- Must join one and attend meetings
  - ENG 091 requirement
- Many organizations
  - American Society of Mechanical Engineers (ASME)
  - Institute of Electrical and Electronics Engineers (IEEE)
  - American Society of Civil Engineers (ASCE)
  - Biomedical Engineering Society (BMES)

# Student Organizations

- Many organizations (con't)
  - Society of Automotive Engineering (SAE)
  - Engineers Without Borders (EWB)
  - Society of Women Engineers (SWE)
  - National Society of Black Engineers (NSBE)
  - Society of Hispanic Professional Engineers (SHPE)
- Engineering Honor Society (Tau Beta Pi)
- Student Government Association (SGA)
- I will invite representatives to classes

# Looking Ahead

## ENG 093 & 094 (junior year)

### TCNJ School of Engineering Engineering Seminar ENG 093/094

ENG 093 Requirements	ENG 094 Requirements
Professional Organization Membership <sup>1</sup>	Professional Organization Meeting Attendance <sup>2</sup>
Professional Organization Meeting Attendance <sup>2</sup>	Technical Seminar <sup>3</sup>
Technical Seminar <sup>3</sup>	Contemporary Issues Presentation <sup>4</sup>
Mentoring Program <sup>5</sup>	Senior Project Presentation <sup>6</sup>
Senior Project Presentation <sup>6</sup>	

# Today

- Attendance
- Introductions
- Goals of this course (ENG 095)
- Goals of Engineering Seminar (ENG 091)
- **Next class**
  - Begin Chapter 3
  - Recommend taking Index of Learning Styles Questionnaire

[www.engr.ncsu.edu/learningstyles/ilsweb.html](http://www.engr.ncsu.edu/learningstyles/ilsweb.html)

- HW Assignments

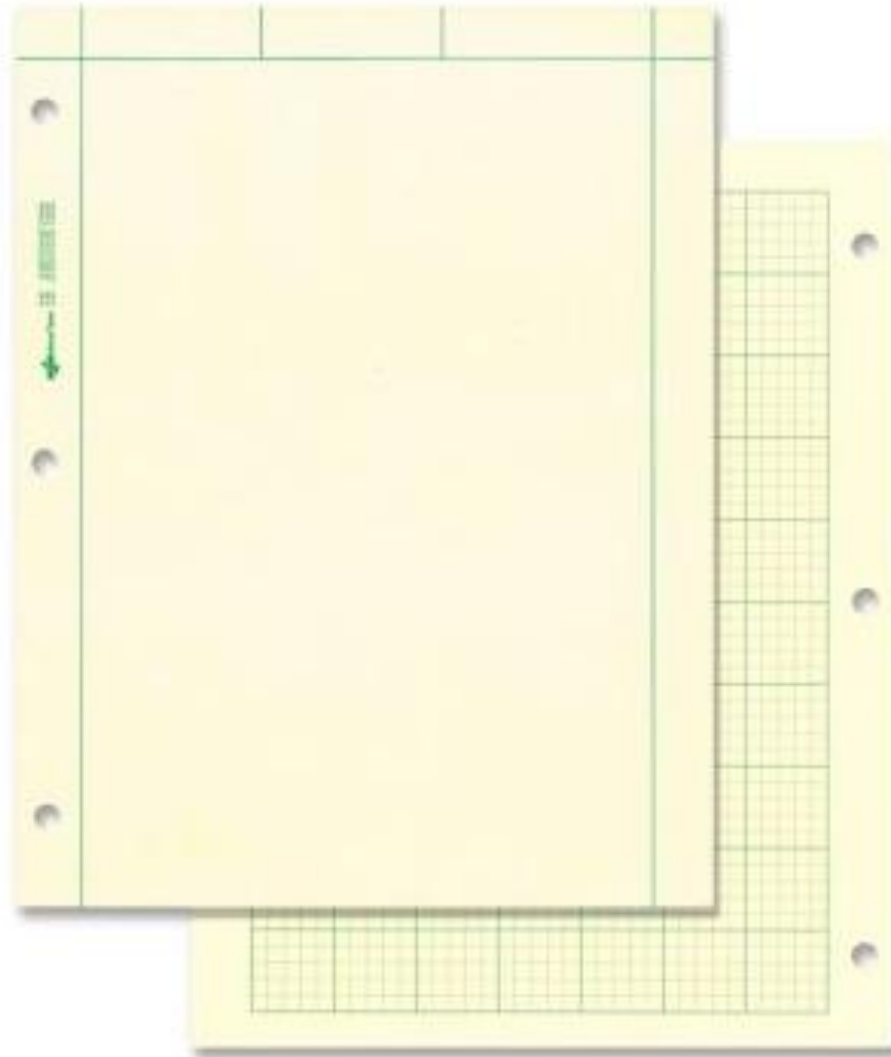
# HW #1: Chapter 3 Problem 12

- **Homework #1**

- Please complete Problem #12 in Chapter 3 (p.108). This assignment involves completing an academic Success Skills Survey. Please create and complete the survey in Excel (other spreadsheet software is also acceptable) so that tabulation of the results is made more easily. You may paraphrase each of the 16 questions, but do **not** only indicate a question number. Please format the information so that it is easy to read and printable on a single page. Please print the assignment and hand it in prior to the beginning of the second class.

- **Grading Criteria: Homework #1**

# HW #2 using Engineering Paper



# Today

- Attendance

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[www.engr.ncsu.edu/learningstyles/ilsweb.html](http://www.engr.ncsu.edu/learningstyles/ilsweb.html)

**Have a Wonderful TCNJ Day!**