

## **ENGR 199 (section 007): Foundations for Engineering Success**

TR 10:00-10:50am, Wiegand Hall 132

CRN: 20380

### **Instructor:**

Nova A. G. Schauss, M.S.

College of Engineering

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(541) 737-2584

Office Hours: Tuesdays 1:00-2:00pm, Fridays 10:00-11:00am

### **Graduate Teaching Assistant:**

Emiko Christopherson

International Student Advising & Services

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(541) 737-5794

Office Hours: By Appointment

### **Required Text/Materials**

- Studying Engineering: A Road Map to a Rewarding Career, 4<sup>th</sup> Edition by Raymond B. Landis  
ISBN 978-0-9793487-4-7
- 1 Blue Book (available for purchase at the Beaver Store)

### **Course Information**

Purpose of Course: To enhance your success as an engineering student, and assist you in deciding which engineering major/discipline to pursue at Oregon State University.

### Learning Outcomes:

Through enrollment in ENGR 199, Foundations for Engineering Success, it is expected that a student will:

1. Increase his/her awareness of what successful completion of an engineering degree requires;
2. Develop a working knowledge of engineering disciplines offered at Oregon State University;
3. Identify the most appropriate engineering major based on his/her skills, interests and aptitudes;
4. Create a personalized academic success plan for the study of engineering at Oregon State University;
5. Explain in his/her own words the processes, methods, and evidence that the engineering discipline uses to explore and address a real-world, contemporary problem or answer a compelling question (for example: Could the Fukushima Daiichi nuclear disaster have been prevented?);
6. Demonstrate strategies to explore real world problems, questions, and challenges inside and outside the classroom;
7. Articulate interests and academic and personal challenges you have as a first year student at OSU and identify the appropriate campus resources and opportunities to contribute to your educational experience, goals, and campus engagement.

### Attendance

Attendance is mandatory. Students missing more than 3 class sessions will earn a letter grade of 'F' for the course. If a student is ill they must inform the instructor via email in advance of the class meeting time. The instructor will determine if reasonable accommodations can be made to complete the course content missed during class. Students who are ill should make plans to submit assignments through alternate means by the listed due date. To apply a sick day retroactively, a doctor's note is required.

### Participation

Regular attendance is required and active participation is expected of each student. If a student uses a cell phone, or has a cell phone visible, during class they will be considered absent for that respective day.

### **Email Communication**

When communicating by email you must include "ENGR 199" in the subject line. Only use your ONID email account when emailing the instructor. Within your email you must include a greeting, signature, and proper grammar. The instructor does not respond to email over the weekend or after 5pm on a week day.

### **Academic Dishonesty**

Both the value and the success of any academic activity, as well as the entire academic enterprise, have depended for centuries on the fundamental principle of absolute honesty. The University expects all its faculty and students to honor this principle scrupulously.

Since academic dishonesty is a serious breach of the universally recognized code of academic ethics, it is every instructor's obligation to impose appropriate sanctions for any demonstrable instance of such misconduct on the part of a student. Students who engage in academic dishonesty will receive a zero for the respective assignment. Additional sanctions may apply as deemed appropriate by the instructor.

For more information about academic integrity and the University's policies and procedures in this area, please refer to the Student Conduct web site at: <http://www.orst.edu/admin/stucon/achon.htm> and the section on Academic Regulations in the OSU Schedule of Classes.

### **Civility & Honesty**

Behaviors disruptive to the learning environment will not be tolerated and will be referred to the Office of Student Conduct for disciplinary action. The goal of Oregon State University is to provide students with the knowledge, skills and wisdom they need to contribute to society. Our rules are formulated to guarantee each student freedom to learn and to protect the fundamental rights of others. People must treat each other with dignity and respect in order for scholarship to thrive. Behaviors that are disruptive to teaching and learning will not be tolerated, and will be referred to the Student Conduct Program for disciplinary action. Behaviors that create a hostile, offensive or intimidating environment based on gender, race, ethnicity, color, religion, age, disability, marital status or sexual orientation will be referred to the Affirmative Action Office.

### **Accommodations**

Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations, but who have not yet obtained approval through DAS, should contact DAS immediately at (541) 737-4098. For additional information, please see: <http://ds.oregonstate.edu/>

## Grading & Assignments

ENGR 199 is a 2 credit graded course (A-F)

- Notebook:** 15 points (assessed 3 times during the term @ 5 points/assessment)
- + **One-on-One Meeting:** 20 points (2 meetings during the term @ 10 points/meeting)
- + **Student Success Workshops:** 10 points (1 workshop during the term)
- + **Homework:** 90 points (9 homework assignments during the term @ 10 points/assignments)
- + **Final Presentation:** 10 points
- + **Final Project:** 100 points
- = 245 Maximum Points Possible**

**Late Work Policy:** Late work is defined as any assignment submitted to the instructor after the beginning of the class period when it is due. A maximum of 75% can be earned when late work is submitted within 24 hours after the posted due date. A maximum of 50% can be earned when late work is submitted within 48 hours after the posted due date. Work will not be accepted for credit after 48 hours.

### Grading Scale:

A = 93%-100%	B =83%-86%	C =73%-76%	D =63%-66%
A-=90%-92%	B-=80%-82%	C-=70%-72%	D-=60%-62%
B+=87%-89%	C+=77%-79%	D+=67%-69%	F = 59% or below

**Notebook:** Throughout the term you will respond to reading assignments in a Blue Book. This is an on opportunity for you to identify personal connections and lingering questions related to the reading. Each notebook entry must include: 3 concepts that are personally meaningful or relevant to you, and 1 question or concern related to the reading.

**One-on-One Meetings:** There will be two one-on-one meetings throughout the term to provide you with an opportunity to ask questions outside of class. During weeks one and four of the term, you will sign up for your one-on-one meetings. All meetings will occur with our Graduate Assistant, Emiko. Students who miss their scheduled meeting without communicating in advance to Emiko will not have an opportunity to reschedule.

**Student Success Workshop:** Each Student Success Series Workshop is designed to introduce new students to knowledge, skills and campus resources and offices to help them have a successful transition to college and engage at the highest level during their first-year on campus. Workshops are held Weeks 2-9. 50+ workshops are available to choose from in 14 topic areas:  
<http://oregonstate.edu/newstudents/student-success-series-workshops>

**Homework:** All homework assignments relate to the Final Project, so it is essential that you maintain both paper and electronic copies of all submitted assignments. Homework is due at the beginning of class, and must be submitted as a paper copy. Homework submitted electronically (via email) will be considered late, the exception being Homework Assignment #9 which must be submitted via email.

**Final Presentation:** Final presentations will occur during Week 10 and will answer the question: “Why I want to be a(n) \_\_\_\_\_ Engineer”. Presentations must include a visual/listening aid, and could involve items such as PowerPoint, social media, music lyrics, physical object, etc.

**Final Project:** Everything that you do throughout the term will relate to the Final Project. The project is your opportunity to design your personal process of becoming a world-class engineering student.

**Extra Credit:** You have the option to earn 1 extra credit point for every class session in which you turn off your cell phone and put it on the front desk of the room before class begins. Cell phones must be completely silenced (not on vibrate) for extra credit to be awarded. Phones can only be retrieved after class ends.

### **Schedule of Course Meetings:**

*Although this outline should provide you with some idea of the path we will travel together this semester, it is subject to change. The reading assignments are expected to be completed for the date noted (ex. read Chapter 1 & the Project Statement before coming to class on October 2<sup>nd</sup>).*

#### **Week 1:**

##### **Tuesday, September 30<sup>th</sup>**

Reading Assignment: None

Class Discussion: Syllabus  
Who are my classmates & what is TBL?

Due: None

##### **Thursday, October 2<sup>nd</sup>**

Reading Assignment: Chapter 1 (pg. 8-31) & Project Statement

Class Discussion: Keys to success in engineering study  
Ability vs. Effort

Due: HW 1: How to Tame Your Dragon

**Friday, October 3<sup>rd</sup> by 5:00pm: StrengthsQuest Results (email to Nova)**

#### **Week 2:**

##### **Tuesday, October 7<sup>th</sup>**

Reading Assignment: None

Class Discussion: StrengthsQuest w/ Melissa Yamamoto

Due: Exploring Themes & Talent Connection worksheet

##### **Thursday, October 9<sup>th</sup>**

Reading Assignment: None

Class Discussion: StrengthsQuest w/ Melissa Yamamoto

Due: None

**Week 3:**

**Tuesday, October 14<sup>th</sup>**

Reading Assignment: Chapter 2, sections 2.1, 2.2, 2.3, 2.4 & 2.5

Class Discussion: Rewards & opportunities of an engineering career  
Greatest engineering achievements  
What is engineering?

Due: HW 2: Engineering Bucket List

**Thursday, October 16<sup>th</sup>**

Reading Assignment: None

Class Discussion: Value of an engineer who can communicate well

Due: None

**Week 4:**

**Tuesday, October 21<sup>st</sup>**

Reading Assignment: Chapter 2, sections 2.6, 2.7, 2.8, 2.9 & 2.10

Class Discussion: Engineering Disciplines  
"Why You Will Fail to Have a Great Career", by Larry Smith (TED Talk)

Due: HW 3: Plan for Success

**Thursday, October 23<sup>rd</sup>**

*No Class Attend Engineering Career Fair:  
October 22nd and/or October 23<sup>rd</sup> 11am-4pm, CH2M Hill Alumni Center*

**Week 5:**

**Tuesday, October 28<sup>th</sup>**

Reading Assignment: Chapter 3

Class Discussion: Learning & learning styles  
Become an expert learner  
Teaching in college  
Differences between engineering study and high school

Due: Notebooks Due

**Thursday, October 30<sup>th</sup>**

Reading Assignment: None

Class Discussion: Cephalonian Library Tour w/ Margaret Mellinger (meet in the Valley Library, Autzen classroom)

Due: HW 4: Why I Want to be an Engineer

**Week 6:**

**Tuesday, November 4<sup>th</sup>**

Reading Assignment: Chapter 4

Class Discussion: Early course preparation  
Preparing for lecture & during your lectures  
Making effective use of your professors

Due: None

**Thursday, November 6<sup>th</sup>**

Reading Assignment: Chapter 5  
Class Discussion: Reading for comprehension  
The Forgetting Curve  
Organizing your learning process  
Making effective use of your peers  
Priority management  
Due: HW 5: The Teaching/Learning Process

**Week 7:**

**Tuesday, November 11<sup>th</sup>**

Reading Assignment: Chapter 6, sections 6.1, 6.2, 6.3 & 6.4  
Class Discussion: Personal development—Receptiveness to change  
Making behavior modification work for you  
Overcoming barriers/resiliency  
Due: None

**Thursday, November 13<sup>th</sup>**

Reading Assignment: Chapter 6, sections 6.5, 6.6, 6.7 & 6.8  
Class Discussion: What is success?  
Self-esteem  
Positive aspects of being a college student  
Due: HW 6: Leaders in Engineering  
Notebook Collected

**Week 8:**

**Tuesday, November 18<sup>th</sup>**

Reading Assignment: Chapter 8, sections 8.3, 8.4 & 8.5  
Class Discussion: Navigating the educational system: CoE Student Ambassador Panel  
Due: HW 7: Academic Plan

**Thursday, November 20<sup>th</sup>**

Reading Assignment: Chapter 8, section 8.6  
Class Discussion: Ethics & academic integrity  
Due: HW 8: Current Ethical Engineering Issue

**Week 9:**

**Tuesday, November 25<sup>th</sup>**

Reading Assignment: What the Best College Students Do  
Class Discussion: TBD  
Due: HW 9: What Can OSU Offer Me?  
HW 10: Introductory & Concluding Paragraphs (MUST BE SUBMITTED VIA EMAIL!)

**Thursday, November 27<sup>th</sup>**

No Class—Thanksgiving Break

**Week 10:**

**Tuesday, December 2<sup>nd</sup>**

Reading Assignment: None

Class Discussion: Final Presentations

Due: Final Report—Becoming a “World-Class” Engineering Student  
Notebook Collected

**Thursday, December 4<sup>th</sup>**

Reading Assignment: None

Class Discussion: Final Presentations & Course Evaluation

Due: None