

**EGR 490 ENGINEERING LEADERSHIP
COURSE OUTLINE - SPRING SEMESTER 2020**

Wednesday

5:00 – 6:30 PM, 387 RGAN Room (1-Credit)

- INSTRUCTOR:** Dr. Rudy Buchheit
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- ADMIN SUPPORT:** Robyn Morefield
Phone: (859) 257-1687
Email: Robyn.Morefield@uky.edu
- OFFICE HOURS:** By appointment.
- COURSE DESCRIPTION:** Promote leadership development in students, examine strategies used by leaders, and develop communication techniques that are vital to becoming a dynamic leader.
- OBJECTIVE:** The purpose of this course is to accelerate the process of leadership development in students through structured reading, reflection, discussion and writing aimed at helping each student organize and systematize their leadership style in a written statement and a set of principles. Additionally, students are exposed to the fundamental aspects of professionalism that underpins leadership including business communication, conduct and dress; making technical and business presentations; business and dinner etiquette; and the roles all of these interactions play in developing a professional network.
- REQUIREMENTS:** All students enrolled in this course must have engineering standing. Any student enrolled in EGR 490 understands that he or she has a commitment to the course and the extracurricular activities associated with its offering. Enrolled students must remain active in the course for its entire duration and participate in activities as directed to receive course credit.
- TEXTS:** HBR's 10 Must Reads on Leadership: Harvard Business School Press, Boston, MA, 2011.

HBR's 10 Must Reads on Emotional Intelligence: Harvard Business School Press, Boston, MA 2015.

The Magic of Thinking Big, David J. Schwartz, Simon & Schuster, New York, 2007.
- ATTENDANCE:** Students enrolled in the course are expected to attend all classes and to participate in the capstone trip to Washington, D.C. Please contact Dr.

Buchheit or Ms. Morefield as soon as you become aware of a conflict that will cause you to miss a class, meeting or dinner function.

ATTIRE: Students will wear professional business attire for all classes with speakers.

GRADING: The course is graded Pass/Fail (P/F) based on two components:

- 50%: Satisfactory participation in class and on the capstone trip.
- 50%: Development of a personal leadership statement and reflective writings, discussed below. Written assignments will be submitted through Canvas.

Reflection writings are short writings (generally about a page or so) that make the students think about and reflect upon speakers, experiences, or readings in the context of their leadership statement. These reflections should inform and promote refinement and evolution of the leadership statement.

All assignment documents will be typed and submitted through Canvas in pdf. These can be thought about as your thought journal or diary for the class. The purpose of these assignments is for primarily for your own benefit and thinking, not for the grade, so you should treat these accordingly. The benefit you get out of these will be in proportion to the thought that you put into these. They will be graded pass fail.

There will be three types of reflections required for this class:

- **Speaker reflections:** For each external speaker who speaks during a class period, you will be expected to write a brief (approximately 1 or 2 page) reflective statement regarding the discussion with the speaker. There will be no more than 10 external speakers through the semester. For a Wednesday speaker, the reflective statement will typically be due for submission through Canvas by the following Monday.
- **Capstone Trip reflection:** A single reflection statement will be required for the entire capstone trip. Each student can reflect on the entire experience, or focus on a particular speaker or part of the trip that was most meaningful to them. (Separate statements on the different parts of the trip are not required – just a single statement.)
- **Reading reflections:** There will be readings through the semester. Some of these reflections may have more structure to the assignments, with a provided focus question or direction. Reflections on all readings are required.

Some Other Books on Leadership

- Bock, Laszlo, Work Rules!: insights from Inside Google That Will Transform How You Live and Lead
- Collins, Jim, Good to Great
- Covey, Steven R., The 7 Habits of Highly Effective People
- Cray, Ed. General of the Army: George C. Marshall, Soldier and Statesman
- Cuddy, Amy, Presence
- Esame, Hubert, Patton, A Study in Command
- Flood, Charles Bracelen, Lee: The Last Years
- Freeman, Douglas S. George Washington: A Biography. 7 volumes, 1948–1957. The standard scholarly biography, winner of the Pulitzer Prize. A single-volume abridgement by Richard Harwell appeared in 1968
- Gilbert, Martin. In Search of Churchill: A Historian's Journey
- Goodwin, Doris Kearns, Team of Rivals: The Political Genius of Abraham Lincoln
- Grazer, Brian and Chales Fishman, A Curious Mind
- Iacocca, Lee, Where Have All the Leaders Gone?
- Kennedy, John F., Profiles in Courage
- Laver, Harry S., The Leadership of Ulysses S. Grant.
- McCullough, David, The Great Bridge: The Epic Story of the Building of the Brooklyn Bridge
- Musk, Elon: Tesla, SpaceX, and The Quest for a Fantastic Future
- Northouse, Peter G., Leadership: Theory and Practice
- Peterson, Merrill D. Thomas Jefferson and the New Nation
- Powell, Colin, My American Journey
- Puryear, Edgar, American Generalship: Character is Everything
- Schwartz, David J., The Magic of Thinking Big
- Trulock, Alice Rains. In the Hands of Providence: Joshua Lawrence Chamberlain and the American Civil War
- Vanderkam, Laura, Their Own Sweet Time: How Successful Women Build Lives That Work