

Master Course Description for EE-492 (ABET Sheet)

Title: Electrical Engineering Leadership Seminar

Credits: 1 (seminar)

UW Course Catalog Description:

Coordinator: Dept. Chair, Electrical and Computer Engineering

Goals: The EE Leadership Seminar Series was created to demonstrate to current EE students the depth and breadth of a degree in electrical engineering. Each week one or more alumni will speak about their UW path to industry and best practices along the way.

Learning Objectives: At the end of the course, the student should have gained an understanding of the wide variety of career paths available to electrical engineers. This understanding will include the ability to evaluate the relative strengths of work as an engineer for large and small companies, opportunities in management and sales, as well as opportunities in business, law, and intellectual property.

Textbook: No text is required for the course.

Prerequisites: None.

Topics: Seminar content will vary weekly by speaker.

Course Structure: The course meets weekly for one seminar hour.

Computer Resources: A webpage for the class will contain the course schedule, grading policy, and brief biographies of the speakers. The instructor will periodically communicate with the students by email.

Grading: The course grade is based primarily upon student participation through observation of the presentations, and by asking questions of the speaker. Also two short essays will be assigned, one due mid-quarter, and one due during finals week. In order to obtain credit for the course students are required to participate in at least 8 class meetings, and to complete two short essays on topics identified by the instructor based upon material provided by the speakers.

ABET Student Outcome Coverage: This course addresses the following outcomes:

H = high relevance, M = medium relevance, L = low relevance to course.

- (4) *An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts* **(M)** The speakers have embraced a wide variety of careers, within the traditional definition of the field, in expanding the boundaries of the field, and completely outside of generally accepted

engineering practice. Their reflections illustrate how ethical and professional responsibilities have been integrated into their careers.

- (5) *An ability to acquire and apply new knowledge as needed, using appropriate learning strategies* **(M)** The speakers will discuss how their own careers have depended on experience gained outside of the role of a student.

Prepared: 9/30/2016; 12/7/2016

Last revised: 6/10/2019, R. Bruce Darling