

Project Management Graduate Certificate  
Justification for Adding E M 568

Description: There are always significant challenges when required to deliver a unique product, service, or other result in a given time and with limited resources. The application of project management techniques provides the best chance for success in such endeavors. The courses associated with this certificate provide students with the knowledge and tools necessary to plan, organize, sequence activities, logically schedule, manage and control projects, large and small. The courses introduce concepts in both the art and discipline of project management, including communication and leadership of technical people and the various approaches to schedule and resource controls, including PERT, CPM, and Critical Chain.

Requirements:

E M 564 Project Management

E M 508 Legal Concepts for Engineering and Technical Managers

Either:

E M 501 Management of Organizations

or E M 522 leadership Supervision and Management

Either:

E M 520 Contract Project Management

or E M 530 Applications of Constraints Management

or EM 568 Risk Analysis and Management (**proposed**)

Rationale:

Risk Management is an important aspect of project management and is one of the ten knowledge areas defined in PMBOK. Chapter 11 of the 5th Edition of the PMBOK Guide deals with the knowledge area of Risk Management. According to the 5th Edition of the PMBOK Guide, project risk is "an uncertain event or condition that, if it occurs, has a positive or negative effect on one or more project objectives such as scope, schedule, cost, or quality."

The decision to replace EM 590 (a former requirement) with EM 568 was made by a consensus of the faculty at the October 13<sup>th</sup> Fall Faculty Meeting. The content of the EM Risk Management class was deemed more applicable to the certificate than that of the EM 590 Innovation class. Including this Risk Management class will not impact the Voiland College of Engineering and Architecture, the university, or the global campus. The Risk Management course was taught two semesters as a topics course and has been approved with its own number, EM 568, —effective Fall 2017. It enhances a student's understanding and provides a different dimension of project management as defined in the CIP definition of Project Management:

Project Management: A program that prepares individuals to apply quantitative and qualitative knowledge, skills, tools, and techniques to manage projects in a wide range of fields and occupations. Includes instruction in project planning, risk management, cost and time management, contracts and procurement, accounting, statistics decision making, and human resources. Code 52.0211

<http://ncesred.goWIPEDS/CIPCODE/cipdetail.aspx?v=S5&cipid=89316>