



COURSE SYLLABUS

E M 595

Course Name: Program and Facilities Management

Course Number: E M 595

Semester Credits: 3

Instructor/Contact Information: Rick W. Cherf Email:rcherf@acm.wsu.edu Phone:(509) 335-7458

Prerequisites: none

Course Description and Objectives:

This course covers the project lifecycle of a facility, from project concept to facility management. Students will learn methods and indicators available for identifying, implementing, and measuring performance of a facility's capital expansion program. These concepts and strategies for managing capital building and infrastructure programs include decision-making tools, sustainability issues, technology, the facilitation of project participants, and the integration of the building process. Facilities program management is a comprehensive method of managing all capital resource needs regarding planning, designing, construction, and operation. This course includes the introduction of the process of generating and managing a building information model (BIM) for a facility.

Course Topics:

- Developing a Program Management Best Practices Plan
- Conceptual Framework for the Project Lifecycle
- The Project Development Time-line
- Identifying Critical Project Drivers
- Key Performance Indicators (KPI) in Program Management
- Program/Scope Development
- Challenges in the Program Process
- Building Information Modeling (BIM) 3D to 6D
- BIM Execution Plans for Facilities
- Date Management and the 6D Process

Grading:

Midterm Exam: 20%

Project Assignments: 35%

Final Exam: 30%

Homework: 15%