Data Sciences and Operations

USC Marshall School of Business

DSO 580 - Project Management

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Section and Day(s)/Time
16286R: Tuesday and Thursday - 3:30 pm – 4:50 pm
16287R: Thursday – 6:30 pm – 9:30 pm

DSO 580

Why take the course?

In any position, our graduates will work in projects either as a project manager or a team member. It is important that they know effective project management methodologies. This course provides them with necessary formal project management skills that can be applied all industries

Course objective

To provide students with tools and skills needed in planning, managing, monitoring and controlling complex projects with numerous uncertainties. Also, to teach Microsoft Project, Excel and simulation models to make quantitative trade-offs while managing projects

Key concepts

- Project organization structures
- Work Break Down structures
- Project evaluation and selection
- Planning and budgeting
- Project scheduling
- Critical Chain method
- Resources management
- Time and cost trade-offs
- Risk management
- Agile and Scrum project management
- Project monitoring with Earned Value analysis
- Microsoft Project
- Excel and Monte-Carlo Simulation models

Course description

This course begins with project definition and organization concepts. Then it moves on to planning, estimation, scheduling methodologies projects. It will also cover risk and resource management and Earned Value Analysis. Course materials are enriched with guest speakers, games, software tutorials in MS Project, Excel and Crystal Ball, and case discussions