MGT 611: Project Analytics

General Information
Instructor Name & Contact Information:
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Office Hours: By Appointment
Class Website: http://moodle.stevens.edu

Overview
This course is designed to deepen the student’s ability to use various project management tools for planning, controlling and monitoring a project. DecisionTools, a set of instruments for risk analysis and decision making under uncertainty, and @RISK for Project, a simulation program for managing projects, are used throughout the course, allowing students to get familiar with industry tools for managing project risk. The course focuses on quantitative project management aspects of planning, monitoring and controlling projects.

Prerequisites: MGT609

Relationship of Course to Rest of Curriculum
This is a required course for students obtaining a Masters degree in Project Management.

Learning Goals
After taking this course, the student will be able to:
1. Build project portfolio selection models.
2. Identify and analyze project risks and develop contingency plans for those risks.
3. Analyze the impact of variability in project tasks and plans.
4. Choose the most appropriate resources to maintain the schedule and budget of a project.
5. Apply quantitative measures of project progress.

**Pedagogy**

The course will employ lectures, class discussion, individual assignments, and a final exam. The assignments will help the student learn to use various planning and monitoring tools that are used in project management.

**Required Text(s)**

- **DecisionTools Suite** by Palisade (http://www.palisade.com)
- **@RISK for Project** by Palisade (http://www.palisade.com)
  
  Purchase both directly from [http://www.palisade.com/academic/order/SuiteRPJ/](http://www.palisade.com/academic/order/SuiteRPJ/)

Lecture notes and assignments can be found at [www.stevens.edu/moodle](http://www.stevens.edu/moodle)

**Additional Readings**


**Assignments**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Grade Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Assignments</td>
<td>30%</td>
</tr>
<tr>
<td>Project Assignment</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>50%</td>
</tr>
<tr>
<td><strong>Total Grade</strong></td>
<td><strong>100%</strong></td>
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Late assignments will be downgraded by 10 points per day.

**Ethical Conduct**

The following statement is printed in the Stevens Graduate Catalog and applies to all students taking Stevens courses, on and off campus.

“Cheating during in-class tests or take-home examinations or homework is, of course, illegal and immoral. A Graduate Academic Evaluation Board exists to investigate academic improprieties, conduct hearings, and determine any necessary actions. The term ‘academic impropriety’ is meant to include, but is not limited to, cheating on homework, during in-class or take home examinations and plagiarism.“
Consequences of academic impropriety are severe, ranging from receiving an “F” in a course, to a warning from the Dean of the Graduate School, which becomes a part of the permanent student record, to expulsion.


Consistent with the above statements, all homework exercises, tests and exams that are designated as individual assignments MUST contain the following signed statement before they can be accepted for grading:

I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination. I further pledge that I have not copied any material from a book, article, the Internet or any other source except where I have expressly cited the source.

Signature _________________________ Date: _____________

Please note that assignments in this class may be submitted to [www.turnitin.com](http://www.turnitin.com), a web-based anti-plagiarism system, for an evaluation of their originality.

**Grading**

Each deliverable will be typically graded on a scale from 0-100, with the following resolution:

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>95-100</td>
<td>A</td>
</tr>
<tr>
<td>90-94</td>
<td>A-</td>
</tr>
<tr>
<td>85-89</td>
<td>B+</td>
</tr>
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<td>80-84</td>
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<tr>
<td>50-54</td>
<td>D</td>
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<tr>
<td>0-49</td>
<td>F</td>
</tr>
</tbody>
</table>

**Course/Teacher Evaluation**

Continuous improvement can only occur with feedback based on comprehensive and appropriate surveys. Your feedback is an important contributor to decisions to modify course content/pedagogy which is why we strive for 100% class participation in the survey.
All course teacher evaluations are conducted on-line. You will receive an e-mail one week prior to the end of the course informing you that the survey site (https://www.stevens.edu/assess) is open along with instructions for accessing the site. Login using your Campus Pipeline (email) ‘CPIPE’ username and password. This is the same username and password you use for WebCT. Simply click on the course that you wish to evaluate and enter the information. All responses are strictly anonymous. We especially encourage you to clarify your position on any of the questions and give explicit feedbacks on your overall evaluations in the section at the end of the formal survey which allows for written comments. We ask that you submit your survey prior to the last class.

Course Topics

- Review of basic concepts
- Decision tools
- Project selection: EMV, Precision Tree
- Portfolio optimization
- Schedule risk
- Cost risk
- Cost management: time/cost trade-off
- Simulation optimization
- Resource management: resource allocation, resource leveling