

## CIS 95G – Agile Methodologies

**Overview:** This is an introductory course in Agile Methodologies. Agile is a topic of growing importance in project management. The marketplace reflects this importance, as project management practitioners increasingly embrace agile as a technique for managing successful projects. This course is aimed at providing a survey of agile methodologies available. Principles, practices, tools, and techniques behind them. Finally providing a simulated environment in the class room exercises where the individuals can practice and enhance their expertise in using agile practices. In addition the course is aligned towards the exam content outline of the PMI-ACP, a certification that carries industry-wide professional credibility. Specific focus will be on SCRUM and Kanban methodologies which are quite popular in bay area firms

### Course Schedule

<p><b>Day 1</b></p> <p>Saturday - 3/5</p>	<p><b>Agile Principles, Agile Mindset, Methodologies and Value Driven Delivery</b></p> <ul style="list-style-type: none"> <li>- Agile and Waterfall methodologies</li> <li>- Agile Manifesto and Survey of Agile Methodologies (PMI ACP)</li> <li>- Agile Leadership principles and Demystifying Value Delivery</li> </ul>
<p><b>Day 2</b></p> <p>Sunday – 3/6</p>	<p><b>Value Driven Delivery (Continued) and SCRUM Deep dive</b></p> <ul style="list-style-type: none"> <li>- Portfolio Management – Traditional and Agile</li> <li>- Prioritization Frameworks</li> <li>- Value Demonstration with customers</li> <li>- <b>SCRUM Deep Dive</b> -SCRUM Roles, Ceremonies, Terminologies</li> <li>- <a href="#">Learning by doing- Sample sprint</a></li> </ul>
<p><b>Day 3</b></p> <p>Saturday – 3/12</p>	<p><b>Stakeholder Engagement and Team Performance</b></p> <ul style="list-style-type: none"> <li>- User Story mapping, Backlog creation and Relative Estimation</li> <li>- Grooming and Planning ceremony</li> <li>- Daily Standups and Measuring Progress</li> <li>- <a href="#">Learning by doing- Sample sprint</a></li> </ul>
<p><b>Day 4</b></p> <p>Sunday – 3/13</p>	<p><b>Continuous Improvement and Kanban Deep Dive</b></p> <ul style="list-style-type: none"> <li>- High Performing Team</li> <li>- <a href="#">Learn by doing – Designing High performing teams</a></li> <li>- PDCA Cycle and Retrospectives</li> <li>- <a href="#">Learning by doing- Conducting Retrospectives</a></li> <li>- Enterprise Agile, Agile at Scale and other Advanced Agile Concepts</li> <li>- Kanban Concepts and Basics, Information Radiators</li> </ul>
<p><b>Day 5</b></p> <p><b>Saturday – 3/19</b></p>	<p><b>Kanban and Discipline in Agile</b></p> <ul style="list-style-type: none"> <li>- <a href="#">Learn by doing – Kanban, Designing scalable Project Management Methodology and In-class team project</a></li> <li>- Other advanced agile concepts- HIT, Sprint Zero, Disciplined Agile Delivery</li> <li>- Round up of SCRUM and Kanban</li> </ul>
<p><b>Day 6</b></p> <p><b>Sunday – 3/20</b></p>	<p><b>Wrap up Team Project and Presentation by teams</b></p> <ul style="list-style-type: none"> <li>- <b>Specific topics of interest to the class</b></li> <li>- Demonstrate team project, Leader board review</li> <li>- Q&amp;A and Final Wrap up</li> </ul>

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**Prerequisites:** Basic working experience with projects. (Not required to be a PM or SCRUM Master)

**Textbook:** No textbooks are mandatory. Readings and articles will be posted in the class site. Quizzes will be based on what is taught in the class and materials in the class site

### Grading

Component	Weightage
<b>Class participation and in-class hands-on Agile Methodology games</b> <i>“Learning by doing”</i> is the best way to learn Agile Principles.	10%
<b>Case study and presentation – Group work</b> Best 2 out of 3 case studies	10%
<b>Quizzes</b> –Class quizzes and some take home quizzes.	20%
Mid Term- Multiple choice questions and short answers	25%
End Term- Multiple choice	35%
<i>In order to provide quick turnaround of solutions and scores, no late submissions unless special circumstances</i>	

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