



Gatton College of Business and Economics

Six Sigma Green Belt Certificate Program

Program Overview:

The certificate course is designed to educate students on the Six Sigma DMAIC (Define, Measure, Analyze, Improve, and Control) process and associated tool sets. The Gatton College partners with the LeanCor Supply Chain Group is a trusted supply chain partner with a mission to advance the world's supply chains. LeanCor's three integrated divisions – LeanCor Training and Education, LeanCor Consulting, and LeanCor Logistics – specialize in Lean and Six Sigma principles that help organizations eliminate waste, drive down costs, and build operational excellence into their supply chains. The education process consists of virtual lectures, four in-class review sessions, and three on-going review sessions. As part of the education process, students are tested on their conceptual knowledge of six sigma principles and are expected to apply these principles to a company's real-world process to achieve their Six Sigma Green Belt certification.

Training Schedule:

The certificate program will take a flipped classroom approach, with online training modules, weekly assignments and in-class review as well as group presentations. The following table outlines the schedule:

Week	Virtual Modules	Assignment	In-Class Review
1	Lean fundamentals, Six Sigma basics, problem solving methodology, and define phase overview	Meet with company sponsors and discuss the project	Wednesday, 1/17, 4:00 – 5:30 p.m.
2	Project charter, project scoping using SIPOC, measure phase overview, current state mapping, and Pareto analysis	Case study – develop process map	Wednesday, 1/24, 4:00 – 5:30 p.m.
3	Analysis phase overview, fishbone diagram, 5 why analysis, improve phase overview, flow and just in time, visual management and 5S	Case study - fishbone and 5 Why	Wednesday, 1/31, 4:00 – 5:30 p.m.
4	Quality at the source, lean garage video, control phase overview, developing a control plan, measurement systems	Case study – improve and control	Wednesday, 2/7, 4:00 – 5:30 p.m.
5	Certification examination review session	NA	Wednesday, 2/14, 4:00 – 5:00 p.m.

The certification examination is scheduled for Friday, February 16th. To achieve Green Belt certification, students must pass the certification examination and successfully apply the principles learned in the training to a real-world project that will take place through the spring semester. More detail on project timing is captured below in the Project Milestones section.

Project Milestones:

Six-Sigma Green Belt project milestones include:

- Greenbelt Program Begins January 17th
- Project scoping completed by January 26th
- Define phase completed by February 16th
- Measure & Analyze phases complete by March 23rd
- Improve & Control phases complete by April 13th
- Project report outs completed and practice presentations the week of April 23rd
- Final Presentations to Companies the week of April 30th