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## **Integrating Large-Scale Group Projects and Software Engineering Approaches for Early Computer Science Courses**

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**Abstract.** *The utilization of large-scale group projects in early computer science courses has been readily accepted in academia. In these types of projects, students are given a specific portion of a large programming problem to design and develop. Ultimately, the consolidation of all of the independent student projects integrates to form the solution for the large-scale project. Though many studies report on the experience of executing a semester-long course of this nature, course experience at Georgetown University shows the benefits of embedding a large-scale project that comprises just a segment of the course (3-4 weeks). The success of these types of courses requires an effective process for creating the specific large-scale project. In this paper, an effective process for large-scale group project course development is applied to the second computer science course at Georgetown University.*