Course Number: CPGM 6325

Course Title: Agile Development Methods

Course Description: Test Driven Development (TDD) is a modern Agile software development technique. It creates a unique partnership between the requirements for a software system and the system itself. Created to support Agile’s evolutionary approach to design, it can also be used in Waterfall development. This class will teach how to use JUnit to create tests before writing code, how to refactor existing code, how to apply principles of good design, and how to avoid design “smells.”

Suggested Course Prerequisite(s): Java Core

Course Resources: OPTIONAL
Test Driven Development by Example
Addison-Wesley Professional; Beck; ISBN: 0321146530

Student Learning Outcomes:
- Hands-on experience with unit tests driving the development of production code.
- Refactoring as a design step.
- Understand Evolutionary Design.

Certification Notes: N/A

Next course recommendation: Design Patterns in Java

Refund Policy: Please refer to www.collin.edu/ce/inforegistrar.html for our refund policy. No refunds after the start time of the first class.

Americans with Disabilities Act: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.

Course Sessions: Listed are guidelines to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

Lesson Plan – by week or session:
Session 1: JUnit, TDD & Class Project
Session 2: More Class Project Development
Session 3: Good & Bad Testing
Session 4: Refactoring as Design
Session 5: New Class Project Requirements
Session 6: Test Doubles and Mocks
Session 7: More Class Project Requirements
Session 8: Wrap Up and Miscellaneous Topics
**Method of Evaluation:** Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.