CAPITOL
Technology University

Masters · Engineering and Computer Sciences · Computer Science

Agile Methods

CS-552

Summer SEM 2021   Section L01   3.00 Credits   05/03/2021 to 08/20/2021   Modified 06/03/2021

This is an Online Course taught via Zoom Sessions Wednesday Evenings 7-9:40 PM ET

👤 Faculty Contact Information

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🖥️ Course Description

Agile is an alternative to the traditional waterfall approach discussed in other software engineering courses. Its key principals include: active user involvement in the design process, empowering the development team to make decisions, allowing requirements to evolve while keeping the timescale fixed, iterating with small/incremental releases, testing early and often, and high degree of collaboration between all stakeholders. Students will explore several popular agile processes and frameworks which may include some of the following, amongst others: Adaptive Software Development, Agile Unified Process, Crystal Clear Methods, Extreme programming, Lean, Scrum. Benefits and pitfalls of this approach as compared to more traditional models will be discussed. (3)

📕 Course Materials

Learning Agile: Understanding Scrum, XP, Lean, and Kanban

Author: Andrew Stellman & Jennifer Greene

The Elements of Scrum

Author: Chris Sims & Hillary Louise Johnson

✔️ Grading

REQUIREMENT	POINT VALUE	NOTES
10 Weekly Sprints	700	70 points each
3 Quizzes	150	50 points each
1 Course Project Presentation	50	50 points
1 Course Project	100	100 points

Total Points	1000	

Grading will be based on a 1000-point system. Final letter grades will be determined based on the total points accumulated, as shown below.

Total Points	Letter Grade
900-1000	A
800-899	B
700-799	C
600-699	D
Less than 600	F

Master's students must maintain at least a 3.0 GPA.

✳ Course Policies

Class Participation

By registering for this course, you have made a commitment to participate in your course regularly whether it is on ground, synchronous, or asynchronous.

Assignment Requirements

LATE ASSIGNMENTS

Assigned work should be submitted on time. You will have lead time in which to prepare, ask questions, and seek help. Therefore, unless a major accident, illness, work assignment, or other extenuating circumstance prevents you from submitting work on time, late assignments will be not be accepted without prior written agreement.

No assignments will be accepted after the last day of class unless a prior agreement is made with the professor, in writing, and is due to an emergency or other such reasonable issue.

Online Discussions

If your course utilizes online discussions, they will be based on course material and will both encourage and challenge students to articulate and uncover meaning in the text through analysis, compare and contrast, cause and effect, and clarification. For asynchronous and some on ground and synchronous courses, you will note in the Grading Criteria section of your syllabus that your online discussion counts toward your final grade. See: **Netiquette Tips For Online Discussions (https://elearningindustry.com/10-netiquette-tips-online-discussions)** (*Source: eLearning Industry.com*)

🏛 Academic Policies

Academic Integrity

As a member of the Capitol Technology University academic community that honors integrity and respect for others you are

expected to maintain a high level of personal integrity in your academic work at all times. Your work should be original and must not be reused in other courses. For more information, refer to the Student Handbook (https://mycapitol.captechu.edu/ICS/icsfs/Student_Handbook_2018-19_FINAL_with_Cover.pdf?target=c782b1db-dbba-4f4e-87a4-41c40bb3dd28).

The "Incomplete" Grade

The grade of incomplete (I) can only be assigned by a professor to a student who has not completed the assigned course work because of documented illness or some other emergency during the last four class sessions. A grade of "I" cannot be assigned to allow a student with poor performance additional time to raise the grade. If you are awarded an incomplete grade, it is your responsibility to complete all work for the course within the first 4 weeks of the next semester or summer term. After this time, the Registrar automatically converts the incomplete to an F.

APA

All graduate and undergraduate students at Capitol Technology University are required to follow the rules of the current American Psychological Association (A.P.A.) writing style for any written assignment including essays, papers, and reports. APA rules help to avoid plagiarism by ensuring that sources are properly cited.

Turnitin

Turnitin is a tool to help students maintain original content in their academic work. To enhance student learning, foster honesty, and maintain integrity in our academic programs, students are strongly encouraged to use Turnitin. Faculty can use it to judge the originality of the student's work. Turnitin compares a student's submission with a database of prior essays, reports, papers, and publications, generating a "similarity score" and providing links to sources of potentially plagiarized content. Turnitin does not establish whether plagiarism has happened. The instructor must make a complete assessment and judge the originality of the student's work after careful examination of both the submitted work and the suspect sources. The Turnitin Similarity Index for any submission must be less than 10%.

Write and Cite

Write & Cite is a training module and competency exam designed for graduate students to provide the skills needed to write, format, and properly cite academic papers. If you are required to use this tool in your course, the link to Write & Cite will be in your Learn@Capitol (Canvas) classroom.

Classroom Civility

Students are expected to work together cooperatively, and treat fellow students and faculty with respect, showing professionalism and courtesy in all interactions. Please review the Student Handbook (https://mycapitol.captechu.edu/ICS/icsfs/Student_Handbook_2018-19_FINAL_with_Cover.pdf?target=c782b1db-dbba-4f4e-87a4-41c40bb3dd28) for more guidance on interacting in Capitol Technology University on ground, synchronous, and asynchronous classrooms.

Student Success Center

The mission of the Student Success Center at Capitol Technology University is to assist undergraduate students in all programs of study enhance their academic knowledge through interdependent learning. Students receive assistance from their peers in a fun environment, fostering personal development within a community of scholars. Undergraduate students may schedule sessions at captechu.setmore.com (http://www.captechu.setmore.com). Contact the Student Success Center at learningcenter@captechu.edu (mailto:learningcenter@captechu.edu) for additional information about tutoring.

Policies and Procedures

Capitol Technology University actively subscribes to a policy of equal educational and employment opportunity. Capitol Technology University is committed to creating and sustaining an environment free from discrimination and sexual harassment and complies with applicable laws including Title IX of the Educational Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973.

Students with disabilities who are requesting accommodations in a course should contact the Office of Student Life at deanofstudents@captechu.edu (mailto:deanofstudents@captechu.edu) or call 301-369-2543. Concerns regarding discrimination

or sexual misconduct should be reported to the Title IX Coordinator or Deputy Title IX Coordinator." For more information, see: https://www.captechu.edu/policies (https://www.captechu.edu/policies).

Communicating with your Professor

Outside of the classroom, the primary mode of contact with the professor is Capitol Technology email. Faculty and students are required to communicate using their university-issued email. It is the students' responsibility to make sure that they check this account regularly. Questions regarding student email accounts should be sent to the ithelp@captechu.edu (mailto:ithelp@captechu.edu). Emails sent to the professor should have the course number and reason for contact in the subject line. For example: "BUS-100 Homework" or "BUS-100 Mid-Term" or "BUS-100 Question."

The syllabus is an agreement between you and the professor regarding what material is covered in the course and how your performance will be evaluated. If you have questions regarding this syllabus or the course material please contact the professor.

Assignment Submission

All assignments must be submitted through the assignments folder in Learn@Capitol (Canvas). In general, our work week begins Monday and ends Sunday at 11:59 p.m. All assignments, unless specified otherwise in the schedule below, are due Sundays by 11:59 p.m.

Getting Help

If you need help with any aspect of the course or have questions, help is available -- just ask! The first point of contact is the professor. Additional resources are available through student life (studentlife@captechu.edu (mailto:studentlife@captechu.edu)). The professor, the department chair and the dean can all help secure the help you need. If you need assistance with the Learn@Capitol (Canvas) learning management system, you may contact AskCapitol (https://capitol.instructure.com/courses/497).

Required Course Evaluation

Capitol Technology University values its students' feedback. You will be asked to complete a required online evaluation toward the end of the term. The primary purpose of this evaluation process is to assess the effectiveness of classroom instruction in order to provide the best learning experience possible and make continuous improvements to every class. Responses are kept confidential. Please take full advantage of this opportunity to provide your feedback.

Library Support

Extensive library resources and services are available online, 24 hours a day, seven days a week at Capitol Technology University Library (https://login.login.captechu.edu:2443/login) to support you in your studies.

CITI

CITI is an online training program required for Capitol doctoral students and is designed to educate students about issues involving human subject research. If you are required to complete this, the link to CITI training will be included in your online classroom or provided by your professor.

📅 Class Assignments and Schedule

Readings should be completed before the live class session. Assignments are provided and due the following week the day before the live class session. Additional readings will be assigned throughout the semester.

Week	Topic	Reading/Assignment	Due Date
1 - 5/5/2021	Agile Development Methods Overview	Learning Agile 1,2, Hw 1 - Project Concept	5/11/2021 @ midnight

2 - 5/12/2021	Agile Values and Principles	Learning Agile 3, Homework 2 - Scope Document	5/18/2021 @ midnight
3 - 5/19/2021	Scrum - Introduction	Learning Agile 4, Homework 3 - Backlog/Stories	5/25/2021 @ midnight
4 - 5/26/2021	Clean Code; VCS	Homework 4 - Task Board	6/1/2021 @ midnight
5 - 6/2/2021	Scrum - Prioritizing, Estimating, and Planning	Learning Agile 5, Sprint 1	6/8/2021 @ midnight
6 - 6/9/2021	eXtreme Programming (XP), Values and Principles	Learning Agile 6, Sprint 2	6/15/2021 @ midnight
7 - 6/16/2021	eXtreme Programming (XP), Practices; TDD	Learning Agile 7, Sprint 3, Quiz 1	6/22/2021 @ midnight
8 - 6/23/2021	Lean Software Development	Learning Agile 8, Sprint 4	6/29/2021 @ midnight
9 - 6/30/2021	Kanban	Learning Agile 9, Sprint 5	7/6/2021 @ midnight
10 - 7/7/2021	Crystal	Sprint 6	7/13/2021 @ midnight
11 - 7/14/2021	Feature-Driven Development (FDD)	Sprint 7, Quiz 2	7/20/2021 @ midnight
12 - 7/21/2021	Dynamic Systems Development Method (DSDM)	Sprint 8	7/27/2021 @ midnight
13 - 7/28/2021	Enterprise Agility	Sprint 9	8/3/2021 @ midnight
14 - 8/4/2021	Enterprise Scrum	Sprint 10, Quiz 3	8/10/2021 @ midnight
15 - 8/11/2021	Course Project Presentations	Project Presentations Live in class	8/17/2021 @ midnight
16 - 8/18/2021	Submit Course Project		8/17/2021 @ midnight