



Soules College of Business
Department of Technology
TECH 5333 Agile Project Management and Scrum
Course Syllabus

Office Hours: Virtual
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Course Description:

An introduction and analysis of the benefits of Agile principles used in project management and applied with the Scrum framework. This course is the preparation course to be certified as a Scrum Master and be ready to deploy development teams using an iterative project management approach to the delivery of products and services.

Textbook:

Rubin, Kenneth (2012). *Essential Scrum- A practical Guide to the Most Popular Agile Process*, 1st Edition, Addison-Wesley Signature Series (Cohn), ISBN-13: 9780137043293

Course Objectives

At the end of this course, participants will be able to:

1. Explore the fundamental concepts of the Agile mindset, customer focus, continuous improvement, and Scrum principles
2. Develop an understanding of dealing with complexity, change management, and the Agile problem-solving model
3. Become familiar with the Scrum framework for project management
4. Develop skills as a Scrum Master that is able to facilitate a development team
5. Investigate the concept of self-directed work teams and incremental delivery of value

Student Learning Outcomes:

1. Able to describe the economic shifts in business that necessitate the need for business Agility
2. Describe an understanding and apply Agile principles, values, thinking, and methods in an organizational setting.
3. Explain the phases of a Scrum cycle, Scrum team roles, Agile processes, and sprint artifacts
4. Cultivate proficiency establishing and prioritizing a product development backlog based on user stories, features, and customer requirements.
5. Illustrate a fundamental knowledge of a Scrum Master facilitating of sprints with the development team to deliver ready to release ready work increments

By successfully passing assigned homework, participating in online discussions in CANVAS, writing assignments, quizzes, and exams by a grade of 70% or better.

Core Competencies:

- Computer-based skills - By use of standard software the student will be able to create a product / task backlog.
- Communication skills - The student will work in a group setting to discuss and apply Agile business principles and graphically display development.
- Interpersonal skills - Students will work in quality improvement teams to experience the use of graphical problem solving techniques.
- Problem-solving - Each student will interpret problem and be able to plan an agile problem solving strategy using the Scrum framework and a Plan Do Check Act continuous improvement cycle.
- Personal accountability for achievement - Each student will follow the designated suspense dates for course work as listed in the course syllabus.
- Competence in basic Agile principles and thinking.
- By the study of the Agile principles, values, and methods, the student will develop a foundation for the need and benefits of business agility and application of Agile frameworks to produce goods and services that customers desire.

Course Requirements:

<u>Grading and Evaluation:</u>	<u>Percentage of Grade:</u>
Chapter Assignments	25
Discussions	25
Quizzes	25
<u>Final Exam</u>	<u>25</u>
Total	100%

This is an approximate weighting of the course work for this semester and may change slightly during the semester

Students are required to log on to CANVAS through their UT Tyler account to review study materials, participate in group discussions, submit course work, complete tests and quizzes that the instructor may post

Instructor reserves the right to make changes with prior notice to students

Grading Scale:

- A= 90-100 %
- B= 80-89 %
- C= 70-79 %
- D= 60-69 %
- F=Below 60%

Important Dates:

- Class Start Date.....Jul 3
- July 4th Holiday.....Jul 4
- Census Date.....Jul 7
- Last Day to Drop.....Jul 26
- Final Grade Rosters Open.....Aug 1
- Final Exam Due.....Aug 5
- End of Semester.....Aug 5
- Final Grades Due.....Aug 8

Tentative Schedule

Week 1 (July 3-7): Administration

- Introduction to Tech 5333
- Review Syllabus

Core Concepts, Part 1 (Chapters 1,2,3)

- Introduction
- Scrum Framework
- Agile Principles

Week 2 (July 10-14):

Core Concepts, Part 2 (Chapters 4,5,6,7,8)

- Sprints
- Requirements and User Stories
- Product Backlog
- Estimation and Velocity
- Technical Debt

Week 3 (July 17-21):

Roles (Chapters 9,10,11,12,13)

- Product Owner
- Scrum Master
- Development Team
- Scrum Team Structures
- Managers

Week 4 (July 24-28):

Planning (Chapters 14, 15, 16, 17, 18)

- Scrum Planning Principles
- Multilevel Planning
- Portfolio Planning
- Envisioning (Product Planning)
- Release Planning

Week 5 (July 31-4):

Sprinting (Chapters 19, 20, 21, 22, 23)

- Sprint Planning
- Sprint Execution
- Sprint Review
- Sprint Retrospective
- The Path Forward

Week 5 (August 5-8):

- Final Exam
- Grades Due for Semester

Any late work must be cleared with the instructor prior to the due date. Any late coursework without approval will not be accepted after the due date. Any reconciliation will be considered on a case by case basis with legitimate excuses at the instructor's discretion.

UT Tyler Honor Code:

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

Campus Carry

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campuscarry/index.php>

UT Tyler a Tobacco-Free University

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.

Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.

There are several cessation programs available to students looking to quit smoking, including counseling, quit lines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. (For Fall, the Census Date is Sept. 12.) Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar. Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date (Sept. 12th) is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment

- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date). Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including non-visible a disability diagnosis such as a chronic disease, learning disorder, head injury or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources office and schedule an interview with an Accessibility Case Manager. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR webpage (<http://www.uttyler.edu/disabilityservices/>) or the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to saroffice@uttyler.edu.

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second-class meeting of the semester. Revised 09/16

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your

instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Student Standards of Academic Conduct

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

1. “Cheating” includes, but is not limited to:

- copying from another student’s test paper;
- using, during a test, materials not authorized by the person giving the test;
- failure to comply with instructions given by the person administering the test;
- possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed “crib notes”. The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- collaborating with or seeking aid from another student during a test or other assignment without authority;
- discussing the contents of an examination with another student who will take the examination;
- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
- substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
- paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
- falsifying research data, laboratory reports, and/or other academic work offered for credit;
- taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
- misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.

2. “Plagiarism” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.

3. “Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.

iv. All written work that is submitted will be subject to review by SafeAssign™, available on Canvas

UT Tyler Resources for Students

- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu
- The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.

Note: The instructor reserves the right to modify the syllabus. All modifications will be communicated to the students in a timely manner.