IT 280 Team Project Development with Agile

Instructor

Roman Dumiak, Adjunct Faculty
College of Computing & Digital Media,
DePaul University
Office: n/a
Email: rdumiak@depaul.edu
Phone: 847 612-7469
Office hours: By appointment (Phone or Zoom)
Mondays 1:00-5:00pm and Fridays 1:00-4:00pm
E-mails/Text will be returned within 24 hours

Course Information

IT280 Section 601T   Class Number 37505
IT280 Section 630   Class Number 37638
Quarter: Spring 2022
Class times: Tues/Thurs 3:10PM-4:40PM
Room: CDM 228 **and Synch (Zoom)**
Campus: Loop
Course home page: https://d2l.depaul.edu/
Drop Date: April 8, 2022
Withdraw Date: May 13, 2022
   https://academics.depaul.edu/calendar/Pages/defau

Learning Outcomes

Students will be able to:
- **Define the core concepts of agile methodology**
- **Explain how to use best practices to develop agile artifacts and run agile ceremonies**
- **Explain best practices for identifying and resolving team communication and**
- **collaboration issues.**
- **Explain the roles in an agile project**
- **Demonstrate proficiency creating and improving agile artifact content.**
- **Demonstrate proficiency in discussing the agile team development process.**
- **Demonstrate proficiency in determining the best-fit development processes.**

Course Description

Developing a software solution requires more than just knowing how to program. Software development includes analysis, design, documentation, maintenance, testing, debugging, and deployment. These parts of the development process are integrated by following a methodology. Additionally, software development is a highly collaborative activity, where soft skills like effective communication, teamwork, and the ability to give and receive feedback, are keys to a successful software project. This class will cover the fundamentals of team development and the agile methodology for software project in lectures and hands-on labs. Students will work in teams on project and team building simulations during the quarter.

Course Organization

This is lecture course with weekly lectures, readings, workshops and project assignments done in and outside of class. Workshops and projects consist of developing project specifications. Students will work individually but mostly in small teams to master agile methodology and team management. There is no textbook to purchase. A PDF version of our textbook is available on D2L. Readings will be a collection of PDFs, website content, and DePaul online resource material.

Conceptual Objectives

- **Understand the agile methodology and its range of uses**
- **Manage a simulated agile project environment**
- **Understand taxonomies and vocabularies of agile and SCRUM**
- **Understand the impact agile and SCRUM on project development**
- **Understand the impact of acceptance criteria and agile testing**
- **How run and evaluate agile ceremonies**

Course Topics

- **The Software Development Life Cycle**
- **Agile overview**
- **Team collaboration and communication**
- **Building team culture**
- **Managing teams – organization and strategies**
- **Agile artifacts**
- **Agile ceremonies**
- **Agile Project management tools**

Grading Scale

Course work will be weighted as follows:
- **Participation and Attendance:**
  - **Weekly Topics and Participation: 15 points**

- **Homework: 25 points**
  - **HW1 – HW5: 5 points each**

- **Group Projects: 30 points**
  - **Group Project 1:10 points**
  - **Group Project 2:10 Points**
  - **Group Project 3:10 Points**

- **Exams: 30 points:**
  - **Midterm 15 points**
  - **Final 15 points**
  - **Format: D2L** *Quiz*: **Timed exams. Randomized questions/answers.**

Letter Grade Percentage Points

A	100 – 95
A-	95 – 90
B+	89.9 - 87
B	86.9 – 83
B-	82.9 – 80
C+	79.9 - 77
C	76.9 - 73
C-	72.9 - 70
D	69.9 - 63
F	Below 62.9

Topics Covered: Week-By-Week Schedule
NOTE: See Content Section in D2L as Lecture Topics may shift around between weeks.

Week	Date	Topic
1	March 29 March 31	Course overview Introduction to Team Dynamics Team vs. Teaming Virtual Team Building
2	April 5 April 7	Human-Centered Design
	April 8 May 13	*Last day to drop with no penalty* *Last day to withdraw*
3	April 12 April 14	Introduction to Software Development Life-Cycle (SDLC) The Waterfall Methodology Flowcharting Origins of the Agile Methodology
4	April 19 April 21	Kanban XP - Extreme Programming Scrum Group Project 1
5	April 26 April 28	Mid-Term Group Project 1
6	May 3 May 5	Scrum Ceremonies and Artifacts Group Project 1 – *Due at the end of class*
7	May 10 May 12	User Stories and Story Estimation Group Project 2
8	May 17 May 19	Scrum Ceremonies and Artifacts (continued) Group 2 Project Final Version – *Due at the end of class* Group Project 3
9	May 24 May 26	Review Projects, Programs & Portfolios Group Project 3
10	May 31 June 2	Group Project 3 Presentations Advanced Topics
	June 7 June 9	Finals Week (Optional Review) Final Exam

*** NOTE:
Please, always refer to the syllabus posted in D2L for reference.

Assignments and Due Dates

- Assignment templates are submitted to a D2L submission folder.
- The D2L submission folders has a due date and time listed on D2L.
- Assignments are due on their assigned date and time. Due dates differ by assignment.
- Due dates and times are listed in D2L.
- Students are responsible for checking D2L and being aware homework due dates.
- Assignment submitted late will receive the following deductions:

Late assignment point deductions
> 1 hour and < 1 day: – 10%
≥ 1 day and < 1 week: – 25%
≥ 1 week and < 2 weeks: -50%
2 Weeks or more: -75%

Assignment extensions and D2L submission folder closures. Students may request extensions but must be requested at least 24 hours prior to the due date.
Extensions are usually between 1 and 3 days.
Note: The D2L submission folder closes at 9 pm on the day of the final (week 11).
At that point, assignments are no longer accepted for grading.

Exams

As previously noted there will be two major exams (Mid-term and final). Each will count 15 points to your overall grade.

Policies (Instructor Specific)

Text and Required Materials

- Our textbook is titled *Debugging Teams Better Productivity Through Collaboration* and is available as a PDF on D2L
- For additional material we will use D2L PDF(s), DePaul Books24, Safari, and web articles (NOTE: D2L is not "certified" to run on Safari).
- Access to a computer or laptop with web access
- A working email account.
- Web access for online articles and DePaul books online
- Word Processing program
- Spreadsheet program
- ASCII Text Editor
  - Windows: Notepad++, Edit++, Brackets
  - Mac: Text Wrangler, BBEdit, Brackets

Reading assignment details will be made available during class (and posted in D2L).

Attendance

- Attendance for this course will be taken.

- **Be on time or notify your me via text or e-mail if you will be late or unable to attend.**

Participation Expectations

This class is heavily focused on team-based work. You MUST have a working camera and mic on your computer. Students are expected to participate in the learning process. As we advance through the material and perform activities in our virtual class, it is your responsibility to ask questions and attempt to answer questions asked.

- **Don't engage in other activities during sessions (driving, cooking, cleaning, etc.)**
- **Minimize distractions, such as televisions and cell phones, when possible.**
- **Try to put your device at eye level on a solid surface. Holding your device or placing it in your lap can add movement to your video, which can be distracting.**
- **If you think you might have trouble actively participating in meetings, let me know in advance, if possible.**

Please note: Students should report any incidents of behavioral misconduct (including harassment) in video conference meetings to me. Any incident of harassment and/or behavioral misconduct that impedes the teaching & learning environment may be reported to the Dean of Students Office for referral to the student conduct process. This includes sharing meeting links, passwords, screenshots, recordings, or other meeting information in a way that could facilitate harassment or misconduct by others.

Class Discussion:

Student participation in class discussions will be measured in two ways. First, students are highly encouraged to ask questions and offer comments relevant to the day's topic.
Participation allows the instructor to "hear" the student's voice when grading papers. Secondly, students will be called upon to participate in the activity and offer comments related to the reading assignments. Students must keep up with the reading to participate in the activity and class discussions.

Attitude:

A professional and studious attitude is expected throughout this course. Students will refrain from such behaviors as talking to others when the instructor is speaking, mocking another's opinion, emailing, and texting or using the Internet whether on a phone or computer. If any issues arise a student may be asked to leave the classroom. The instructor will work with the Dean of Students to resolve these issues.

Civil Discourse:

DePaul University is a community that thrives on open discourse that challenges students, both intellectually and personally, to be Socially Responsible Leaders. It is the expectation that all dialogue in this course will be civil and respectful of each student. Any instances of disrespect or hostility may jeopardize a student's ability to be successful in the course. The instructor will work with the Dean of Students to resolve these issues.

Cell Phones/On Call:

If you bring a cell phone to class, it must be off or set to a silent mode. If you are required to be on call as part of your job, please advise the instructor at the start of the course. Should you need to answer a call during class, you must leave the room as discreetly as possible. Please put your cell phone away during class. Do not keep it on the desk. Students who do not comply will be asked to leave class and will receive an absence.

No texting during class:

Out of respect to fellow students and the instructor. Headphones are not allowed in class: Please take off headphone and ear buds and put them away during class.

Reading and Assignments

Reading assignments will be sections from our textbook and online articles. Reading assignment details will be made available during class and posted on the DePaul D2L.

Class Workshop Assignments

- Students may work in small teams to learn the agile methodology, teamwork, and work together to solve simulated project problem using the agile methodology.
- Assignment due dates will be published on D2L. Students will submit assignments to D2L using a template document.

Assignment Submission to D2L

If you are using Mac Pages, please convert the Pages template to a PDF and submit the PDF to D2L.
Accepted template formats are Microsoft Word or PDF.
Please do not submit Pages, Text, or Zip files to D2L submission folder for this class. They will not be graded and you not receive credit for the assignment.

Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change the syllabus occurs, it will be thoroughly addressed during class, posted under Announcements in D2L and sent via email.
Please, always refer to the syllabus posted in D2L for reference.

Diversity and Inclusion

At DePaul, our mission calls us to explore "what must be done" in order to respect the inherent dignity and identity of each human person. We value diversity because it is part of our history, our traditions and our future. We see diversity as an asset and a strength that adds to the richness of classroom learning. In my course, I strive to include diverse authors, perspectives and teaching pedagogies. I also encourage open dialogue and spaces for students to express their unique identities and

perspectives. I am open to having difficult conversations and I will strive to create an inclusive classroom that values all perspectives. If at any time, the classroom experience.

Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Please see https://resources.depaul.edu/teaching-commons/teaching/Pages/online-teaching-evaluations.aspx for additional information.

Academic Integrity and Plagiarism
This course will be subject to the university's academic integrity policy. All students are expected to abide by the University's Academic Integrity Policy which prohibits cheating and other misconduct in student coursework. Publicly sharing or posting online any prior or current materials from this course (including exam questions or answers), is considered to be providing unauthorized assistance prohibited by the policy. Both students who share/post and students who access or use such materials are considered to be cheating under the Policy and will be subject to sanctions for violations of Academic Integrity.
More information can be found at https://resources.depaul.edu/teaching-commons/teaching/academic-integrity/Pages/default.aspx.
Posting work on online sites, such as Hero
All students are expected to abide by the University's Academic Integrity Policy which prohibits cheating and other misconduct in student coursework. Publicly sharing or posting online any prior or current materials from this course (including exam questions or answers), is considered to be providing unauthorized assistance prohibited by the policy. Both students who share/post and students who access or use such materials are considered to be cheating under the Policy and will be subject to sanctions for violations of Academic Integrity.

Withdrawal (Academic Policies)
All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the University Academic Calendar. Information on enrollment, withdrawal, grading and incompletes can be found at: http://cdm.depaul.edu/enrollment.

Incomplete Grades (Academic Policies)
An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course. All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval. Information about the Incomplete Grades policy can be found at http://www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx

Waitlists and Late Registrants

If you are unsure how waitlists work, please visit DePaul Central's webpage for specific policies. Waitlists expire at the registration deadline.
Students who register for this class late are responsible for making up all late assignments. They should also contact me ASAP to discuss any possible assignment extensions.

Preparation: Students are expected to prepare for class by reviewing class activities, presentations, and assignments before class. This is an instructional class. Preparation for class is essential. I cannot allow non-registered students to stay in this class beyond the first week if they are not enrolled. There are federal aid requirements that are compromised if the student is in class and not enrolled. Appeals may be submitted online via MyCDM by the student. Appeals must include: 1) written statement from the student describing why the registration deadline was missed; 2) documentation (e.g. copy of email) from the instructor supporting the late enrollment appeal and indicating how many classes/assignments the student has missed.

Preferred Name & Gender Pronouns

Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities.

I will gladly honor your request to address you by an alternate name or gender pronoun. *Please advise me of this preference early in the quarter so that I may make appropriate changes to my records.*
Student Preferred Name and Gender Policy at
http://policies.depaul.edu/policy/policy.aspx?pid=332

Students with Disabilities

Students who need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential. To ensure that you receive the most appropriate accommodation based on your needs, contact me as early as possible (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at: csd@depaul.edu.
Lewis Center 1420, 25 East Jackson Blvd.
Phone number: (312) 362-8002
Fax: (312) 362-6544
TTY: (773) 325.7296

Covid-19/Corona Virus

Information regarding DePaul's health and safety compliance can be found at:
https://resources.depaul.edu/coronavirus/faqs/Pages/classes-academics-faculty.aspx

Emergency School Closure Information

Info on emergency closure can be found at: Emergency School Closure
- **In the event of a large-scale class cancellation or closure, a University-wide e-mail will be issued.**
- **A voicemail message will also be posted on the University's general announcement line at 312/362-6226 or main telephone number at 312/362-8000.**

- **Additionally, the DPU Alert system may be utilized and a banner on the University's homepage with closure information may be activated.**
- **The University may also post information on the University's social media.**