



**NORTHWEST**  
MISSOURI STATE UNIVERSITY  
MARYVILLE | KANSAS CITY

**School of Computer Science and Information Systems**

**44692-02/03 Graduate Directed Project-II 3 credit hours**

**Spring 2023**

<b>Instructor:</b> Dr. Chandra Mouli Kotteti			<b>Email:</b> chandra@nwmissouri.edu
<b>Office Hours:</b>	Tuesday & Thursday	08:00 am - 10:00 am 02:00 pm - 03:30 pm	<b>Office:</b> CH2145
	and by appointment		<b>Phone:</b> (660) 562-1764

**Prerequisites:** Complete 44691 with a letter grade of C or better.

**Textbook and supplementary materials:** No textbook is required. All the material will be posted in Canvas.

**Course description:** Software development practicum designed to integrate computer-related skills into an intensive project environment. Students enroll in this course for two consecutive semesters, for a total of six credit hours.

**Student learning outcomes:**

**Assessment methods:**

An ability to communicate effectively with a range of audiences	Workshops, client meetings, stand-up meetings, project presentations.
An ability to use current techniques, skills, and tools necessary for computing practice.	Stand up meetings, client meetings, team meetings, and weekly progress.
An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs	Workshops, project presentations, weekly progress, client meetings, documentation, and all other project artifacts
An ability to foster diversity, equity, and inclusion.	Project presentation, class participation, and workshops.
An ability to function effectively on teams to accomplish a common goal.	Project presentation, workshops, team meetings, client meetings, stand-up meetings and class participation.
Understand and develop leadership traits including accountability, integrity, and commitment.	Project presentation, client meetings, attendance, punctuality, and academic integrity.

In addition, after successfully completing this course student will be able to:

1. Gain experience working on a “real world” project by following software development lifecycle (SDLC).
2. Use software development tools and techniques including, but not limited to:
  - Version control
  - Report generation tools
  - Defect tracking system
  - Data services
  - Server management techniques

- Build tools
- 3. Install the necessary software required to develop the project.
- 4. Gather requirements from client for the project.
- 5. Design user interfaces for the project and performs usability testing for defects.
- 6. Demonstrate knowledge of database.
  - Design and create database on the server
  - Store and retrieve data successfully
- 7. Use agile methodologies to plan and monitor projects.
  - the core practices of agile methodologies
  - the importance of value-driven delivery and continuous customer and user feedback
  - the implementation of Scrum
- 8. Improve soft skills including, but not limited to:
  - Communication skills
  - Teamwork and collaboration
  - Conflict resolution
  - Adaptable to software technologies

**Instructional methods:** Class time will be used in four main ways:

- Lectures covering software development lifecycle and tools
- Workshop presentations
- Mid-term and final presentations
- Group discussion and teamwork

**Graded course requirements:**

Category	Percent
Group assignments	10%
Individual assignments	10%
Weekly individual GitHub commits	1%
2 midterm presentations	20%
Project components (Final project documentation, source code with comments, and other required artifacts)	9%
Final presentation	20%
Workshops, professional interaction, meetings	10%
Class participation/Miscellaneous	20%
<b>Total</b>	<b>100%</b>

**Grading scale:**

Percent Range	Grade
90-100%	A
>= 80% and < 90%	B
>= 70% and < 80%	C
>= 60% and < 70%	D
below 60%	F

**Grading policy:** Grades are posted in the online gradebook. You are responsible for checking the

gradebook regularly to ensure that your grades are properly posted. If there is an error in grading, you must bring that to the attention of the instructor *within one week of the time the grade is posted*.

**Course outline/major topics studied:** The following is a tentative schedule and is subject to change. For exact information, including important dates, check the course website.

Week	Activity	
1	Project updates	
2	Progress meeting	
3	Progress meeting	
4	Progress meeting	
5	Progress meeting, <b>Workshop01</b>	
6	Progress meeting	
7	Progress meeting	
8	Progress meeting, <b>Exam01 (Team Presentation)</b>	
9	<b>Spring Break</b>	
10	Progress meeting	
11	Progress meeting	
12	Progress meeting, <b>Workshop02</b>	
13	Progress meeting	
14	Progress meeting	
15	Progress meeting, <b>Exam02 (Team Presentation)</b>	
16	Project presentation preparations	
<b>Project presentations in finals week</b>	Sec02	Wednesday, May 3 7:30 am - 9:30 am
	Sec03	Monday, May 1 7:30 am - 9:30 am

**Note:** Course schedule is subject to change with instructor notification and students will be responsible for abiding by these changes.

**Announcements and email:** Announcements are communicated via the Announcements page on the course website and your Northwest Missouri State University (Northwest) email account. It is your responsibility to check each of these sources daily. Note that you must use your Northwest email account on the Northwest Online site. All emails in this class will be sent to your Northwest address.

**Professionalism:** Students are expected to behave in a professional manner in their dealings with each other, the class assistant, and the instructor. Emails should be politely written, use proper grammar, and follow the rules of capitalization. Emails **must** include the course number (44-692) and section number (02 or 03) in the subject line. For security reasons, I never open emails that do not include an appropriate entry for the subject.

**Due Dates:** Each assigned, graded activity will have a due date posted. Late submissions are not allowed and will receive a grade of 0.

**Academic Calendar:** <http://www.nwmissouri.edu/academics/calendar.htm>

**Final Exam Schedule:** <http://www.nwmissouri.edu/registrar/finals.htm>

**Attendance:** Students are expected to attend all classes as specified in the course syllabi for each course. Class participation points may be awarded to students. It is the responsibility of the student to promptly notify his or her instructor when unable to attend class. Excused absences are not counted against student's attendance points. Please refer to the university policy on attendance at <https://www.nwmissouri.edu/policies/academics/Attendance.pdf>

**Arriving late for class:** Students are expected to be on time for each class period either Zoom or in-person. Attendance will be taken exactly when the class starts. Late arrivals get partial credit for that class' attendance points.

**Final exams:** If an emergency occurs that prevents the administration of a course scheduled final examination, the final course grades will be calculated based on the work in the course completed to that point in time and the faculty member's considered judgment. Final exams will not be rescheduled, and a grade of "I" will not be given as a result of an institutional cancellation of a final examination. This final exam policy does not apply to online courses.

**Administrative drop:** An instructor may request the Office of the Registrar delete a student from a course roster if the student has not met the prerequisite for the course as stated in the catalog, or as a result of non-attendance in the course.

**Academic Administrative withdrawal:** When it is in the best interest of Northwest Missouri State University for a student to withdraw, a student will be given a W, put on administrative hold, and given notice that they are about to be withdrawn. This action will result in removal of all credits associated with courses that have yet to be completed in the semester in question and the student will be administratively withdrawn from the University. An Administrative Withdrawal does not affect the student's grade point average. Please refer to Northwest Missouri State University's Academic Administrative Withdrawal Policy at: <https://www.nwmissouri.edu/policies/academics/Adding-Dropping-Withdrawals.pdf>

**University communications:** Students are expected to use their Northwest student email account for any electronic correspondence within the university. Students are also strongly advised to check their email and CatPAWS accounts on a regular basis.

**Academic integrity policy:** The students, faculty, and staff at Northwest endeavor to sustain an environment that values honesty in academic work, that acknowledges the authorized aid provided by and intellectual contributions of others, and that enables equitable student evaluation. Please refer to Northwest Missouri State University's Academic Integrity Policy at <http://www.nwmissouri.edu/policies/academics/Academic-Integrity.pdf>

**Learning or Living Accommodations Request Process:** Northwest Missouri State University complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 [ADA] and the ADA Amendments Act of 2008 [ADAAA]. If a student has a documented disability that qualifies under the ADA/ADAAA and requests accommodations, they should review the Accessibility and Accommodations webpage at <https://www.nwmissouri.edu/titleixequity/accessibility/index.htm> for guidance, including the accommodations application and supporting documentation requirements. Contact [ada@nwmissouri.edu](mailto:ada@nwmissouri.edu) or 660.562.1873 for further assistance. For the university policy on

disability accommodation refer to <http://www.nwmissouri.edu/policies/student/Disability-Accommodation.pdf>

**Non-discrimination and anti-harassment policy:** Northwest Missouri State University is committed to maintaining an environment for all faculty, staff, students, and third parties that is free of illegal discrimination and harassment. Please refer to the Non-Discrimination and Anti-Harassment Policy at <https://www.nwmissouri.edu/TitleIXEquity/titlevi/>

**Family Education Rights and Privacy Act (FERPA) policy:** Family Educational Rights and Privacy Act of 1974, as amended (commonly known as the Buckley Amendment), is a federal law which provides that colleges and universities will maintain the confidentiality of student education records. Please refer to the Family Educational Rights and Privacy Act (FERPA) Policy at <http://www.nwmissouri.edu/policies/academics/Family-Educational-Rights-and-Privacy-Act.pdf>

**Behavior and Wellness:** Northwest focuses on student success—every student, every day. The Wellness Center, 660.562.1348, offers free counseling for students coping with depression, anxiety, alcohol or drug misuse, relationships, and other emotional, social, and academic stressors. In addition, faculty, staff, and students who are concerned with student wellbeing can report their concerns, including anonymously, to the Behavioral Intervention Team, so that the student can be offered relevant support, at this link: [Concerning Behavior Reporting Form](#). If you are concerned about the immediate safety of a student, please call the University Police, who have specialized training in intervention, at 660.562.1254.

**Final grades rounding:** I will, in certain circumstances, “bump up” your grade to the next level. These are the circumstances:

1. I usually prefer to round up to the next number using two decimal places, i.e., 79.68 rounds up to 80, but 59.46 rounds down to 59.
2. If your final grade number rounds to (59, 69, 79, 89), I will consider “bumping up” your grade only if ALL of the following circumstances are met:
  - a. You have not lost ANY attendance points.
  - b. You have maintained an excellent student conduct, including but not limited to maintaining academic integrity.
  - c. You have completed ANY and ALL projects / assignments.
  - d. You present your “case” to me as a polite request, rather than a demand.
  - e. You must meet me face-to-face if you have any concern regarding your final grade. Students travelling immediately after final exam make sure that you can meet me in person.

These are absolutely and positively the only circumstances in which I will adjust a grade! I will NOT raise a grade by more than one percent! This is my policy, and I am sticking to it. If you email me regarding this but have not met the criteria above, I will ignore your message. Final grades are usually due to the registrar by 10am on the Monday after final exams. After this date and time, I will only change a grade due to a mistake on my part.

**Disclaimer:** Course schedule is subject to change, and you will be responsible for abiding by any such changes. Your instructor will notify you of any changes.