FLORIDA ATLANTIC UNIVERSITY

_____

Course Number COT 5930

Course Name Software Engineering Management
Date: Tuesday 4:20 PM- 7:00 PM
Building: XXX Room: XXX
3 Credit(s)

Instructor Information

Name: Wayne Cole
Email: wcole2024@fau.edu
Office: TBD
Office Hours: T B D

TA Name: TBD
Office: TBD
Office Hours: TBD

Telephone: Email: TBD

Course Description

This course will utilize both the experience of industry professionals and in class activities to demonstrate the benefits of effective project management.

Industry professionals will share experience and answer questions.   Students will be encouraged to take notes and ask questions to understand the business and personal benefits of project management.

In Class activities will be utilized to simulate project management concepts.

Prerequisites

N/A

Corequisites

N/A

Instructional Method

In-Person
This course is offered in-person.

Required Texts/Materials

Books: Please note there is no textbook requirement for this class.

Project Management Software: This course uses Microsoft's Project, JIRA and GitHub.

Other Class Tools: The professor reserves the right to introduce additional tools over the semester.

Course Objectives/Student Learning Outcomes

At the end of this course, students should be able to:

• Understand the world's leading project management methodologies including Waterfall, Agile, and SAFe.
• Understand the concept of critical path and slack.
• Understand Change Control.
• Understand Risk Management.
• Understand Quality Control techniques.
• Understand project team structure, roles and responsibilities.
• Understand principles and different types of Agile Project Management.
• Understand DevOps, Agile Software Engineering, Architecture
• Understand real world applications of project management.
• Understand project management tools including Microsoft Project and Atlassian Suite

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

• Establish and implement academic standards.

• Establish and enforce reasonable behavior standards in each class.

• Recommend disciplinary action for students whose behavior may be judged as disruptive under the

Student Code of Conduct [University Regulation 4.007](https://www.fau.edu/).

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Course Evaluation Method

Course Requirements	Weights
Exam 1	20%
Exam 2	20%
In Class Activities	20%
Industry Professional Reflections	20%
Final Project	20%

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](https://www.fau.edu/).

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior

to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Course Grading Scale

Letter Grade	Letter Grade
A	94 - 100%
A-	90 - 93%
B+	87 - 89%
B	83 - 86%
B-	80 - 82%
C+	77 - 79%
C	73 - 76%
C-	70 - 72%
D+	67 - 69%
D	63 - 66%
D-	60 - 62%
Letter Grade	Letter Grade
F	Below 60

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

• There was a computational or recording error in the grading.

• The grading process used non-academic criteria.

• There was a gross violation of the instructor's own grading system.

University Regulation 4.002 of the University Regulations contains information on the grade appeals process

Policy on Make-up Tests, Late work, and Incompletes

Late submissions will not be accepted or graded.

No makeup exams will be offered.

Throughout the semester, multiple homework assignments will be posted via Canvas. For each homework assignment, you will have about a week to complete and submit your solution via Canvas. Allow enough time to submit your work since once the system is closed there will not be other possibilities to submit (don't send your work via email). Please note that the due date for homework

assignments will not be updated after the assignment is posted.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to
http://www.fau.edu/counseling/

Student Support Services and Online Resources

- Center for Learning and Student Success (CLASS)
- Counseling and Psychological Services (CAPS)
- FAU Libraries
- Math Learning Center
- Office of Information Technology Helpdesk
- Center for Global Engagement
- Office of Undergraduate Research and Inquiry (OURI)
- Science Learning Center
- Speaking Center
- Student Accessibility Services
- Student Athlete Success Center (SASC)
-

6

Course Topical Outline

COURSE WEEKLY SCHEDULE

Date	Session	Topic
TBD	Week 1	Cover Class Curriculum Meet the students What is a project, program, and portfolio? What is project management. Software Engineer Role in Project Management Project Management Types & Certifications
TBD	Week 2	Business Cases Different ways of justifying / measuring value Charter / Vision / Mission How Teams are Formed. Team Stages Project manager types
TBD	Week 3	PMP – overview PMP - Identify stakeholders Scope to WBS Activities to schedule Resources to budget
TBD	Week 4	PMP - Identify stakeholders - Scope to WBS - Activities to schedule - resources to budget Artificial Intelligence in Project Management
TBD	Week 5	Critical Path, Slack MS Project Managing Change within a Waterfall Project Status Reports
TBD	Week 6	**EXAM 1** Agile – overview, history, manifesto, principles Agile – Team Size, Roles Forms of Agility

		Scrum Master, Product Owner, Team Members Welcoming Change within an Agile Project Agile Ceremonies Agile Tooling: JIRA and GitHub
TBD	Week 7	Agile – KANBAN
TBD	Week 8	Agile – SAFe (Scaled Agile Framework)
TBD	Week 9	Software Architects Role in Project Management
		Cybersecurity In Project Management Risk Management, Compliance, Policy and Procedure Management, Vulnerability Management, Security Project Management, and Knowledge Management
TBD	Week 10	Risk Mitigation Quality Six Sigma CICD, DEVOPs
TBD	Week 11	Agile Software Engineering Lean UX One on Ones
		Cybersecurity In Project Management Risk Management, Compliance, Policy and Procedure Management, Vulnerability Management, Security Project Management, and Knowledge Management
TBD	Week 12	**EXAM 2** What motivates teams, people? What motivates business owners? One on Ones
TBD	Week 13	Vendor Management One on Ones
TBD	Week 14	**Final Class Project – Project Management Tools**