Course Syllabus

Course Information

Credits: 3 credits
Term: Fall 2025   (8/28/2025 – 12/4/2025)
Modality: in-person
Time and Room: Thursday 1:10 pm - 4:00 pm   P128

Instructor Information

Name: Tim Finan, Lecturer
Department: Applied Engineering and Sciences Department, UNH Manchester
Office: P143
Email: Timothy.Finan@unh.edu
Phone (office): (603) 641-4340
Office Hours:

- As posted outside my office
- Outside posted hours; as needed by appointment

Course Description

Students will explore and practice various system integration techniques to address requirements, software and hardware acquisitions, integration issues, and acceptance testing. Specific focus is given to diagnosing and troubleshooting systems interoperability and interface integration issues. Studied techniques are compared and contrasted to derive lessons learned, best practices, and critical success factors.

Course Expectations

- Attend class and actively participate
- Keep up with the reading, which should be no more than 2 hours per week.
- Keep up with homework assignments and come to class prepared
- Always do your best and ask question.
- Represent your work honesty

Text and Resources

Text:

     Enterprise Integration Patterns by Gregor Hohpe and Bobby Woolf
     Publisher: Addison-Wesley
     ISBN-13: 978-0321200686, ISBN-10: 0321200683

     https://learning.oreilly.com/library/view/enterprise-integration-patterns/0321200683/

https://www.amazon.com/o/asin/0321200683/ref=nosim/enterpriseint-20
http://www.enterpriseintegrationpatterns.com

Other Tools:
  Conda Python Environment which relies on Python 3.7 or higher
  Virtual Box - https://www.virtualbox.org/
  Amazon AWS - https://aws.amazon.com/
  Discord - https://discord.com/

Grading

Final grades will be based on Quizzes, Homework, Project and Final Exam.

Participation/Attendance:	20%
Homework/Projects :	40%
Quizzes and Final Exam:	40%

Quizzes will be announced but you should always keep up with the material from week to week.

Late submissions
Homework assignments that are submitted late will only be able to achieve grades as follows:
  up to 1 weeks late: Deduct 5%
  1 - 3 weeks late: Deduct 10%
  3+ weeks late: Deduct 20%

 Grade Mode: UNH Letter Grading

Course Policies Regarding Student Behavior

Attendance
Students are responsible for attending scheduled meetings and expected to abide by the University Policy on Attendance (as stated in the *UNH Student Rights, Rules, and Responsibilities*).

If you must miss a class, please let me know **ahead of time**. Do not wait until 15 minutes before the class to inform me that you are going to be absent. If you are sick, please let me know **at least one hour prior to class**.

Temporary Academic Support For Extended Absences
If you are dealing with an unexpected, extenuating circumstance that will keep you out of class or affect your performance for more than a day or two, reach out to Lisa Enright, Assistant Dean of Student Success, at lisa.enright@unh.edu to request a letter be sent to all your faculty.

If you are required to miss significant class time, you will be provided temporary academic supports so that you can continue to make satisfactory progress in this course. Please contact your course instructor to discuss the specific types of supports that will be implemented during your absence. Possible options you may be provided in this class include:

- One-on-one meetings with instructor or CA to catch-up on missed content
- Virtual office hours
- Access to recorded lectures (asynchronous)
- Remote access for class (synchronous)

Statement on Academic Integrity

Academic integrity is a core value at the University of New Hampshire. The members of its academic community both require and expect one another to conduct themselves with integrity. This means that each member will adhere to the principles and rules of the University and pursue academic work in a straightforward and truthful manner, free from deception or fraud. The policy can be found in the annual publication of the Student Rights, Rules, and Responsibilities.

Please see below the Academic Honesty policy for the Computing Program. Failing to comply with these rules is considered a violation of the academic honesty policy.

- Graded work in this class should be entirely yours and shall not include work done by others or obtained from external sources.
- Collaboration on work is allowed only upon explicit instruction from the course instructor and only within the constraints given for that specific work. If unclear, you must consult with me on what is allowable. It is your responsibility to get such clarification.
- Collaboration on all the work in this class is encouraged, unless explicitly stated that the assigned work must be individual work with no collaboration permitted.
- Sharing the products of your work or your direct participation in doing work for others is also an instance of academic misconduct. Refrain from doing work on behalf of somebody else or from sharing your work products with other students.
- If the preparation of your artifacts benefits from collaborations with peers, tutors, tech assistants, course instructor (that's me), or any other person (friend, relative, etc.), in cases in which collaboration is allowed, submitted artifacts must include clear attribution to the kind of beneficial collaboration.
- If the preparation of your artifacts benefits from online sources (forums, public GitHub repos, tutorials, MOOCs, etc.), in cases in which collaboration is allowed, submitted artifacts must include clear attribution to the source and source content you have used

There are very serious repercussions if you deviate from the academic honesty policy:

1. The penalty for the first occurrence of an instance of academic dishonesty and plagiarism in

this course is no credit for the graded work in question. Program Coordinator and Department Chair will be notified of your misconduct, and a letter from the Program Coordinator will be sent to you, course instructor, and faculty advisor.

2. The second instance of academic dishonesty, OR two instances of academic dishonesty in this course is penalized with failing the course. Program Coordinator, Department Chair, and Associate Dean of UNH Manchester or Graduate School (depending on your enrollment) will be notified. A letter from the Program Coordinator will be sent to you, course instructor, and faculty advisor. The Dean may decide on dismissal from the University.

3. If the first instance of academic dishonesty in this course is your second one, the course action described at #2 above will be followed.

Bottom line, do not plagiarize, do not share your work with others, and do not collaborate without giving proper attribution.

Artificial Intelligence
Unless otherwise specified, the use of Automated Writing Tools, including chatGPT and similar artificial intelligence (AI) tools, is strictly prohibited in this course, even when properly attributed. The use of automated writing tools is considered plagiarism (as defined by UNH's [Academic Integrity Policy](#)) and will be handled in accordance with existing policy.

Student Accessibility Services (SAS)
According to the Americans with Disabilities Act (as amended, 2008), each student with a disability has the right to request services from UNH to accommodate his/her/their disability. If you are a student with a documented disability or believe you may have a disability that requires accommodations, please contact Student Accessibility Services (SAS) located on the Manchester campus in room 417.

Accommodation letters are created by SAS with the student. Please follow-up with your instructor as soon as possible to ensure timely implementation of the identified accommodations in the letter. Faculty have an obligation to respond once they receive official notice of accommodations from SAS but are under no obligation to provide retroactive accommodations.

For more information refer to www.unh.edu/sas or contact SAS at 603.862.2607, 711 (Relay NH) or sas.office@unh.edu.

Confidentiality and Mandatory Reporting of Sexual Violence or Harassment
The University of New Hampshire at Manchester and its community are committed to assuring a safe and productive educational environment for all students. Title IX makes it clear that violence, harassment, and discrimination based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, and ability.

If you or someone you know has experienced sexual or relationship violence, and/or stalking and harassment, you can find the appropriate resources below:

Reporting On Campus:
- Title IX Deputy Intake Coordinator: Lisa Enright 603-641-4336. Lisa's office is located on the fourth floor in Room 439.
- UNH Manchester Security: 603-641-4124 or located om the 2nd floor foyer

Reporting Off Campus:
- Manchester Police Department - 603-668-8711, 405 Valley St. Manchester, NH
- or your local police department

For emergencies dial 911.

Confidential Support Resources:
- Caroline Young, SHARPP Expanded Services Coordinator for UNH Manchester- room 417. Available in person Thursdays 9 am to 4-pm and available by appointment (in person and virtually) by emailing caroline.young1@unh.edu
- Reach Crisis Services, NH – 603-668-2299(24hour), 72 Concord St. Manchester, NH
- The SHARPP Center for Interpersonal Violence Awareness, Prevention, and Advocacy: 603-862-7233(24hour), 2 Pettee Brook Lane, Durham NH 03824
- The Mental Health Center of Greater Manchester: On campus mental health counselors are available by appointment during the academic year. Located in room 426.
- 24 Hour NH Sexual Violence Hotline: 1-800-277-5570
- 24 Hour NH Domestic Violence Hotline: 1-866-644-3574

Curtailed Operations
If the university curtails operations due to weather, we will not hold in-person activities for our safety and the safety of others. As soon as possible, I will post an announcement on Canvas about due dates, any make-up work, and (*if applicable*) any online options that may make sense depending on where we are in the course. Please make sure you have access to the UNH Alert RAVE system. If needed, sign up for RAVE Alerts here.