COMP 415 - Mobile Computing 1st and 4most

Computing Technology, Division of Science and Technology, UNH Manchester

INSTRUCTOR INFORMATION

George Harvey, Adjunct

Contact Information

Email: gsh1006@usnh.edu
Office: N/A

How to get in touch with me

1. Email: best way to reach me outside of class
2. MyCourses Messaging: You can reach out to me via MyCourses messages, but I do not check these everyday so response time may vary

Academic alerts to support your success

The University is invested in your academic success. If I am concerned about your academic behavior or performance, I may submit an **academic alert**. Academic alerts are not punitive. The goal is to provide you with support and resources to support your success. They act as an important check-in point and, if you receive an academic alert, you will receive an email to your UNH email address. It is strongly recommended that you meet with a professional advisor and connect with your instructor to discuss the reason for the alert.

COURSE INFORMATION

Course web site: https://mycourses.unh.edu/courses/137976
Credits: 4
Sections: M1
Semester: Fall 2025
Modality: In-person
Class meetings
Times: Monday, 5:40pm – 8:30pm
Location: P132

Credit Hour Policy

This syllabus reflects the federal definition of **credit hour**, which means 3 hours of **engaged time** per week per credit over a 15-week semester

- 1 cr = 3 clock hours/week
- 4 cr = 12 clock hours/week

Engaged time means **all your work in this class**:

- attend class meetings
- do assignments and labs
- take exams,
- participate in course-related experiences (e.g., working with peers on a team project)
- work collaboratively in group study
- seek tutor help
- consult and get assistance from the course instructor.

Academic honesty

1. **Graded individual products** of your learning in this class (e.g., assignment artifacts) **must be entirely done by you**. You cannot submit as yours something done by others or obtained from external sources.
2. **Graded collaborative work** has clear requirements regarding the nature of collaboration, and grading is based on your individual contribution to the collaborative work.
3. **Collaboration** is always encouraged. However, be very careful when you seek or offer help regarding individual assignments that do not allow collaboration. If you have the smallest doubt about whether something is or is not an instance of academic dishonesty, **contact me immediately.**
4. In cases in which collaboration is allowed or required, **submitted artifacts must include clear attribution to**:
    - **Who the collaborators were**, whether from peers, tutors, lab/tech assistants, course instructor (that's me), or any other person (friend, relative, etc.)
    - **What sources or source content** you used, whether forums, public GitHub repos, tutorial videos, MOOCs, etc.
5. Giving the product of your work to someone who'll use it as theirs, or doing work on behalf of others is an instance of academic misconduct. Do not do work on behalf of somebody else and do not provide your work products to others who intend to submit them as theirs. .

Not complying with this policy is considered an instance of dishonesty.

There are very serious repercussions if you deviate from the course and university 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.
    - I will notify the Program Coordinator of your misconduct
    - A letter from the Program Coordinator will be sent to you, me, and your academic advisor.
2. The **second instance** of academic dishonesty in this course is penalized with **failing the course**.
    - I will notify the Program Coordinator, Department Chair, and Associate Dean of the College (or Associate Dean of Graduate School - depending on your enrollment).
    - A letter from the Program Coordinator will be sent to you, me, and your academic 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 in the program of study, the course action described at #2 above will be followed.

Bottom line, do not plagiarize, do not give your work to others to submit as theirs, and do not collaborate when collaboration is not allowed. When collaboration is allowed, always give proper attribution.

For more information see the *UNH Academic Honesty policy, 90 Academic Honesty*, at https://catalog.unh.edu/srrr/academic-policies/academic-honesty/.

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GOALS AND COMPETENCIES

Catalog Course Description

This course examines basic computer science concepts and how mobile computing is transforming our everyday lives and the society and environment in which we live. In this course the students will engage the mobile ecosystem by inventing apps and solving problems of personal, social, and environmental relevance. Students will learn computational thinking skills and create mobile apps using Thunkable, a free and open

source visual blocks-based programming environment. Students will share their creative apps with peers and communities. They will also exercise inclusion, civic engagement, and peer learning in the context of innovating with free and open source software that empower individuals and communities. 4 cr. ETS.

Course Goals

The purpose of this course is for you to learn the basics of computing, and how to solve problems computationally using programming concepts and tools. We will do so by building mobile applications for either android or iOS. Learning in this course will help you meet this expectation as you will:

- Gain exposure to the basics of computing and programming
- Develop problem solving skills
- Experience a broad range of areas in which we apply computing
- Express solutions to problems through programming in Thunkable
- Develop mobile applications designed to solve various problems

LEARNING RESOURCES AND STRATEGIES

Learning Resources

Communication and Collaboration Tools

Because of the highly collaborative nature of the course, we'll be using a variety of online tools that support collaboration, sharing, and openness.

- **Canvas/MyCourses** at https://mycourses.unh.edu/courses/131001 for **announcements**, links, course & weekly lecture materials, assignments & grades.
- **Teams** used to hold online class meetings if we switch to remote learning or other unforeseen circumstances or in the event we are unable to meet a specific week.
- **Slack** may be used for group/class communications. We will discuss this more in the coming weeks.

Center for Academic Enrichment (CAE) Tutoring Services

The Center for Academic Enrichment (CAE) is a free resource for all students enrolled in UNH Manchester courses, as well as alumni with writing for graduate school applications and career seeking. Students are entitled to 1 hour of free individual tutoring, per course, per week. Make a tutoring appointment and access our services through the CAE MyCourses Canvas site, call 603-641-4113 or email **unhm.cae@unh.edu**.
CAE tutors are well-prepared to assist with questions, lab and homework assignments, and Python programming. Please make use of one-on-one tutoring sessions.

Student Tech and Learning Assistant

The **Computing Program** in the **Department of Applied Engineering and Sciences** has student tech assistants who are available to help with software configuration and other technical questions you might have.

Course Materials

All course materials (power points, assignments, etc..) will be available through our MyCourses site.

Platform

Thunkable at https://thunkable.com is a web-based development environment. The Thunkable development environment lets you build apps for Android and iOS devices using a browser on your computer. You will need to create your own personal account with Thunkable at https://x.thunkable.com/signup .

Tools

Free and open source tools will be used to create multimedia resources for the apps, such as pictures and graphics, audio, and video resources. There is also a free mobile app that you need to install on your development phone to do "live testing" of your app. The app is called Thunkable and you should be able to find it in your play store or equivalent.

Textbook

At this time, there is no required textbook for this course. There is a textbook that covers the Thunkable platform that is currently under review. If you are interested in it just ask.

Phones

You will need access to either an Android or iOS device every week to do your app development. If you do not have one please inform me ASAP so we can work something out.

Learning Strategies

Learning in this class depends heavily on ***active participation*** and ***open collaboration*** in and outside class. Because of the interactive nature of this course, a lot of first exposure to and practice with content will happen through a variety of learning activities. In-class time will be mostly dedicated to working in pairs or small groups, discussions, presentations, live coding, and reflections. Therefore, my teaching won't be based on lecturing.

In-Class Learning

The course semester has 15 weeks with weekly 2 hours and 50 minutes class meetings. These class meetings are structured for lectures, lab activities, and project-based learning. Labs and projects given in class will prompt your attention to core concepts, programming patterns, and problem solving strategies. You will work in pairs, teams, or individually, and you will explore, question, and explain how key ideas in programming apply to solving computational problems. Focus will be on developing skills including communication, critical thinking, problem solving, and teamwork. Lab and project-based learning will give you ample practice to apply your understanding of core concepts in new contexts.

Outside Class Learning

You are expected to **study 6-8 hours outside class** every week. Outside class time is dedicated to independent and collaborative study to solve homework problems, finish the in-class projects, and reflect on and evaluate your own work.

COURSE REQUIREMENTS

GRADING AND EVALUATION OF STUDENT WORK

Final grade is calculated as follows (Subject to minor changes):
- Lab and Lecture participation: 20 points (10 @ 2 points each)
- Homework assignments: 20 points (2 @ 10 points each)
- Quizzes: 20 points (2 @ 10 points each)
- Team Project: 25 points
- Final Exam: 15 points

Homework Assignments

There will be two outside class homework assignments, each worth 10 points, for a total of 20 points. Homework assignments must be completed and submitted by the assigned due date for full credit. Homework assignments will be due at 5:40pm the day it is due so we can go over it in class.

Collaboration and Lab Practice

At times you will be expected to collaborate in class with your partner(s) using pair programming, with your peers through discussions and demonstrations, and with your team members while working on the team project. There will be a lab following each lecture. Time in class will be given for lab work, however, lab assignments are expected to be submitted for credit and if a lab is not finished during class it is expected to be completed as additional homework.

Quizzes

There will be two quizzes throughout the duration of the semester, worth 10 points each for a total of 20 points. The major focus of each quiz will cover the most current topics however, comprehension of past topics will still be expected.
Quizes will be due at 5:40pm the day it is due so we can go over it in class.

TENTATIVE COURSE SCHEDULE

This is a **tentative** schedule, subject to change depending on the class pace, student learning needs, and/or unforeseen circumstances, such as power outage because of snow storms. Check the course announcements and emails in **MyCourses** for up-to-date information.

Week #	Date	Core Computational Concept and Practices	Assignments Due
1	Aug 25	Introduction, Syllabus, Workspace Setup, First App / Lab 1	--
2	Sep 1	Labor Day, No Class	--
3	Sep 8	Mobile Computing Intro, Terminology, Thunkable Tour,	Lab 1
4	Sep 15	Events & Event Handlers, Lab 2	--
5	Sep 22	Block & Data Types, Variables, Lab 3	Lab 2
6	Sep 29	Operators & Conditionals Lab 4, HW1	Lab 3
7	Oct 6	Lists, Loops, Objects, Lab 5, Final Project Presentation Overview	Lab 4
8	Oct 13	Mid Semester Break, No Class	--
9	Oct 20	Lab 6, Quiz 01	Lab 5, HW1
10	Oct 27	Canvas, Sprites, Team Project Overview, Lab 7	Lab 6
11	Nov 3	Local Storage & Persistent Data Lab 8, HW2	Lab 7, Quiz 01
12	Nov 10	Functions, Sensor Integration, Lab 9	Lab 8
13	Nov 17	Lab 10	Lab 9, HW2

14	Nov 24	Review/Special Topic, Project Work	Lab 10
15	Dec 1	Review/Special Topic, Project Work	--
16	Dec 8	Team Project Presentations & Final Exam Review	Project Presentations
17	Dec 15	Final Exam	Final Exam & Final Project

POLICIES & PROTOCOLS

Attendance

Class attendance is important for your learning. Attendance is taken every class. **You are responsible for attending all classes**. See the *UNH Attendance and Class Requirements, 04.1 Attendance* policy at https://catalog.unh.edu/srrr/academic-policies/attendance-class-requirements/ for more information.

In the event that you need accommodation for a religious or cultural holiday/observance, you need to request an excuse for absence by **emailing me as early in the semester as possible.**

If you miss a class, you take the responsibility to do the following **three** steps:

1. **Email me** about the circumstances for missing the class within a week of the absence using MyCourses email.
2. **Contact your peers** to find out what you've missed.
3. **Make up the absence** by doing the work assigned that week.

By NOT taking this responsibility, your final grade will be lowered by **5%** for each missed class.

If your absence is because you are dealing with unexpected and extenuating circumstances, please see the policy on **Temporary Academic Supports for Extended Absences with Letter**.

If your absence might cause a **late submission**, see policy on **Late Submissions** policy below.
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Late Submissions

No assignment will be accepted after the deadline and a 0 grade will be entered in the Canvas Grades.

If you are in the situation of missing a deadline **because of time constraints**, you take the responsibility to **request approval for a time extension**. This means that you MUST do the following **two** steps:

1. **Email me PRIOR to the deadline** (using MyCourses email) to do TWO things:
    - **Explain circumstances** that have prevented you from meeting the submission deadline.
    - In your email, **outline plans** for making up the missed requirements.
2. If I approve your time extension request in my email reply
    - Make your submission **no later than six days** after the submission deadline.

By NOT taking this responsibility, your your grade for the assignment is 0 ..

If missing a deadline is because you are dealing with unexpected and extenuating circumstances, please see the policy on **Temporary Academic Supports for Extended Absences with Letter.**
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Temporary Academic Supports for Extended Absences with Letter

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 **Stephanie Kirylych, Director of Academic Advising**, at **stephanie.kirylych@unh.edu** to request a letter be sent to all your faculty. **Note**: If you are asked to quarantine or isolate due to COVID-19 by Health & Wellness, a letter will automatically be sent to your faculty.

If you are required to miss significant class time (e.g., due to required isolation or quarantine), you will be provided temporary academic support so that you can continue to make satisfactory progress in this course. Please **email me** (using MyCourses email) to schedule a virtual meeting with me, if possible, and catch-up on missed content.
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Accessibility services

The University is committed to providing students with documented disabilities equal access to all university programs and facilities. If you think you have a disability requiring accommodations, you must register with the **Student Accessibility Services (SAS)** office. The Student Accessibility Coordinator at UNH Manchester is **Jenessa Zurek.** Please reach out to the SAS office via email at **jenessa.zurek@unh.edu** for registration information and disability related questions. Jenessa Zurek is available through phone and email **Mondays** and **Wednesdays** from **9am-2pm**.
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Expectations of classroom behavior

To ensure a climate of learning for all, disruptive or inappropriate behavior may result in exclusion (removal) from class. As a reminder, use of cell phones/PDAs, and all other electronic devices, to include text messaging, is not permitted in class by Faculty Senate rule unless by instructor permission.
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Emotional or mental health distress

In partnership with **The Mental Health Center of Greater Manchester**, UNH Manchester offers consultation visits in on a walk-in basis and through telehealth appointment:

- Free confidential screening & consultation with a licensed mental health therapist.
- Referrals to mental health or substance misuse treatment.
- And assistance in understanding how to afford additional treatment (with or without insurance!) or find free services.

You may email unhm.wellness@unh.edu to make an appointment to meet with a counselor by clicking here or by using the QR codes below.

For in person appointments, please scan this code	For remote appointments please scan this code.
	

If you would like to connect to counseling services directly, you may do so by contacting **The Greater Manchester Mental Health Center** at (603) 668 - 4111.

The National Suicide Prevention Lifeline provides 24/7, free and confidential support via phone or chat for

people in distress, resources for you or your loved ones, and best practices for professionals. Call (800) 273-TALK (8255).
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Confidentiality and mandatory reporting

The University of New Hampshire at Manchester and its community are committed to assuring a safe and productive educational environment for all students and for the university as a whole. 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: 603-541-4101 or located in the second 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:

- YWCA, NH – 603-668-2299(24hour), 72 Concord St. Manchester, NH
- Sexual Harassment and Rape Prevention Program (SHARPP): 603-862-7233(24hour), 8 Ballard Street, Wolff House, Durham NH 03824
- The Mental Health Center of Greater Manchester: See contact information and hours above
- 24 Hour NH Sexual Violence Hotline: 1-800-277-5570
- 24 Hour NH Domestic Violence Hotline: 1-866-644-3574

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Financial Literacy Resources

All students benefit from understanding their mindset about money, how to build and use a personal budget, as well as understanding interest rates, loans, insurance, investing, and more. UNH has wonderful free resources for students in Library Resource Guides https://libraryguides.unh.edu/finlit, and every student (and faculty!) can access CA$H COURSE at https://www.cashcourse.org/ by creating a free account. Find more information on the Financial Wellness site of Health & Wellness at https://www.unh.edu/health/financial-wellness.

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