## MATH 3940-1 Numerical Analysis for Computer Scientists Fall 2023

Instructor: Dr. Abida Mansoora

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Classes: Monday and Wednesday 11:30 am – 12:50 pm (Toldo Building room 102) Office hours: Monday and Wednesday 10:00 am – 11:15 am and 1:00 pm – 2:15 pm

**Textbook:** Numerical Analysis; Richard L. Burden & J. Douglas Faires, 10<sup>th</sup> Edition.

<u>Course contents:</u> Introductory course in the application of numerical methods using computer oriented algorithms such as finding roots, solving systems of equations, differentiation, integration and optimization. (Restricted to students in Computer Science.) Material from Chapters 1 to 4 and 6 to 10 of the textbook will be discussed according to the syllabus. Some adjustments might have to be made as the course progresses.

<u>Course website:</u> Available at https://blackboard.uwindsor.ca (login with your UWin ID and password).

**Prerequisites:** COMP 1410(60-141), MATH 1250(62-120), and MATH 1730(62-141)

## **Grade determination:**

<u>Test 1:</u> (25%) Wednesday, October 25, 2023 from 11:30 am to 12:50 pm. (location TBA) <u>Test 2:</u> (25%) Monday, November 20, 2023 from 11:30 am to 12:50 pm. (location TBA) **Final Exam:** (50%) Date, time and location to be announced later.

**Tests and Final exam:** The tests and Final Exam will be in person and closed book.

Missed Evaluations: There will be no makeup for tests. If any test or final exam is missed due to illness, then a medical note will be required by an appropriate licensed medical professional. You should complete and submit the Verification of Student Illness or Injury form to me. If a test or final exam is missed for a legitimate reason (other than illness), you need to contact me by email and provide valid written proof. Whether such reasons are legitimate will be determined by the instructor. In the case of a missed midterm exam, for legitimate reason, the value of the midterm test will be added to the value of the final exam. If the final exam is missed for a legitimate reason, the student should notify me within 24 hours of the exam and provide documentation. Upon approval, the student will be asked to write the final exam at the make-up exam date set by the department. The make-up exam date, if needed for legitimate reasons only, is a requirement and not an option. There are no supplemental exams privileges in this course.

<u>Calculators:</u> Only non-graphing and non-programmable calculators are allowed in tests and final exam.

<u>Homework Assignments:</u> Homework Assignments will be given for your practice and will not be graded. It is highly recommended to do these exercises regularly as they will help you with understanding and practice of the essential material of the course.

## <u>Important Academic Dates:</u> Refer to <u>Important Academic Dates</u> for the most current academic dates and information

September 4, 2023	Labour Day, University is closed
September 7, 2023	First Day of Classes
September 20, 2023	Academic Add/Drop date - Last day for late registration and change of courses.
October 4, 2023	Financial Drop Date. Full tuition refund drop date. Any courses dropped after this date will be charged 100% of the base tuition charges (0% refund). It is also the final date to Opt-out of incidental charges. After this date incidental charges cannot be reversed.
October 7 – 15, 2023	Reading Week
October 9, 2023	Thanksgiving Day, University is closed.
October 15, 2023	Expected date for the announcement of the final examination schedule. It is your responsibility to be available for the final examinations. Do not make travel plans to leave Windsor until you have seen your final exam schedule. (Senate Bylaw 54)
October 31, 2023	Deadline to apply for an alternative exam date for (1) students unable to write during the regularly scheduled time slot due to a conflict arising from a religious observance and (2) students having three or more final examinations scheduled in consecutive time slots over a 24-hour period or three or more final examinations scheduled in one calendar day (See the first link on the last page for the form.) (Senate Bylaw 54)
November 15, 2023	Last day to voluntarily withdraw (VW) from Fall 2023 classes.
December 6, 2023	Last Day of Fall 2023 Classes
December 9 – 20, 2023	Fall 2023 Final Examination Period.
December 21, 2023	Alternate Final Exam Day
December 23, 2023 - Jan 2, 2024	University Offices Closed for December Holiday Recess
January 3, 2024	University Offices Open

University of Windsor Policy on Sexual Misconduct: The University of Windsor values dignity, respect and equality for all individuals and strives to foster an atmosphere of healthy attitudes and behaviours towards sexuality, sex, and gender. The University is committed to maintaining a healthy and safe learning, living, social, recreational, and working environment.

All forms of sexual misconduct (included, but not limited to verbal harassment; non-consensual sexual contact; online harassment; non-consensual sharing of images, etc.) jeopardize the mental, physical and emotional welfare of our students and employees, as well as the safety of the campus community and the reputation of the University. Anyone who has experienced sexual misconduct deserves support. Regardless of whether the incident occurred recently or many years ago, you deserve support now.

If you wish to speak confidentially about an incident of sexual misconduct, please contact the Sexual Misconduct Response and Prevention Office at <a href="mailto:svsupport@uwindsor.ca">svsupport@uwindsor.ca</a>. Please note, you do not have to formally report your experience to receive support, resources, and guidance. If you would like to consider filing a formal complaint with the University or have questions about policies and procedures regarding sexual assault sexual misconduct, the <a href="mailto:Sexual Misconduct Response">Sexual Misconduct Response</a> and Prevention Office can provide this information and assist with the process.

Student Perceptions of Teaching (formerly Student Evaluation of Teaching (SET)): The Student Perceptions of Teaching forms will be administered in the last two weeks of classes for courses 12-24 weeks in duration, in the last week of classes for courses 6-11 weeks in duration, or in the last two days of classes for courses of 5 or fewer weeks in duration. Students will be provided with up to 15 minutes at the beginning of a class to complete the SPTs online. The SPTs for distance education courses will be completed online. The SPTs Schedule is posted under the timetables as "SETs" and instructions on accessing and completing the online SPT can be found here.

<u>Academic Integrity:</u> The University of Windsor's <u>Student Code of Conduct (Academic Integrity)</u> will be enforced. Violations will be dealt with according to <u>Senate Bylaw 31</u>. Our practice is to seek the maximum penalty for academic misconduct.

Accommodation: Students seeking academic accommodation for an ongoing, diagnosed disability (whether permanent or temporary) must begin the process by completing the Student Accessibility Services Online Intake form. Once this is done, you will be contacted to arrange a meeting with an Advisor. Visit the Student Accessibility Services website for a full range of programs and services available. Student Accommodation is governed by the Policy on Academic Accommodation for Students with Disabilities

<u>Student Mental Health Resources:</u> The University of Windsor is committed to fostering a thriving University community that actively promotes mental well-being and supports students to flourish in both their personal and academic lives. For more on mental health and wellness resources at the University of Windsor visit the website at the Office of Student Experience. For Therapy Assistance Online (TAO) self-help, visit TAO.

<u>Grading Scale:</u> The University of Windsor uses a percentage marking and grading scale. Course instructors are to assign and record integer-valued grades, and these grades are to be considered the exact assigned grades earned by the students.

<u>University Bylaws and Policies:</u> Professors, Students, and staff are governed by the <u>University's Bylaws and Policies.</u> Of concern are those policies and bylaws that govern courses.

- 1. Multiple Final Examinations in One Calendar Day ( Click here for the form)
- 1. Examination Conflicts Due to Observance of Religious Holidays (Click here for the form)
- 2. Policy on Academic Accommodation for Students with Disabilities
- 3. Policy on Acceptance of Medical Notes from Regulated Health Care Professionals
- 4. Policy on Conduct of Exams and Tests
- 5. Policy on Grading and Calculation of Averages
- 6. Policy on Student Code of Conduct
- 7. Policy on Student Perceptions of Teaching (SPT) and Mandatory Administration of the SPT
- 8. Policy on Undergraduate Course Overload
- 9. Bylaw 32: Procedural Irregularities and Discrimination Regarding Academic Instruction, Academic Evaluation and Academic Grade Appeals
- 10. Bylaw 54: Undergraduate Academic Evaluation Procedures
- 11. Bylaw 55: Graduate Academic Evaluation Procedures