CLASS PLAN – Winter 2025
PROG32356 - .NET Technologies Using C#

Instructor Information:

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Course Outline:

The official course outline:

https://ulysses.sheridanc.on.ca/coutline/coutlineview.jsp?subjectCode=PROG&courseCode=32356

Evaluation:

Quizzes / Assignments / Labs		40%
Assignments	2 × 10%	
Quizzes	4 × 5%	
Exams		**60%**
Mid-Term Exam	1 × 30%	
Final Exam	1 × 30%	
Total		**100%**

Evaluation Notes and Academic Missed Work Procedure:

- To pass the course, students must achieve a 50% weighted average across the exams and at least 50% overall in the course.
- Students must submit/complete all assignments, in-class activities and projects by the scheduled due date and write all tests on the specified date/time. Exceptions will only be made under extraordinary circumstances.
- Refer to the School of Applied Computing's Academic Procedures for Evaluations for more details regarding missed work: Procedures for Evaluations.

TOPICAL OUTLINE

All items listed have tentative dates and may be subject to change.

Week	Topics	Assessment
1	**Module 1: Introduction to the .NET Framework:** • Course Intro • Intro to Visual Studio + Installation • Introduction to .NET / .NET Core • Framework Class Library • Common Language Runtime	
2	**Module 2: C# Language Fundamentals:** • Data types and type conversion • Classes, structures, enumerations • Control structures	

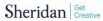| Week	Topics	Assessment
3	• Methods, passing by value, passing by reference, output parameters • Properties and Indexers • OOP in C#: polymorphism, virtual methods, abstract classes, interfaces	**Quiz #1 (5%)** *Based on Modules 1-2*
4	**Module 3: .NET Generics and Collections:** • Generic classes and methods • Generic collections – List, Dictionary, Stack, Queue, LinkedList etc. • Iterate through collections • Introduction to Language Integrated Query (LINQ) • Querying collections using LINQ	**Assignment #1 Released (10%)** *Based on Modules 1-3*
5	**Module 4: Introduction to WPF:** • Understanding XAML • Layout, grid, panels, and layout properties • Input events: Keyboard, Mouse, Stylus, and Touch • Different control and list controls • Working with styles and triggers • Window and dialogs • Navigation	**Assignment #1 Due**
6		**Quiz #2 (5%)** *Based on Modules 3-4*
7	**Mid-Term Exam (30%)**	
	Reading Week	
8	**Module 5: .NET MAUI** • Build and design .NE MAUI applications	
9		**Quiz #3 (5%)** *Based on Module 5*
10	**Module 6: Database Programming:**	
11	• Introduction to ADO.NET • Connected and disconnected models • Working with typed datasets • Introduction to O/RM and Entity Framework • Performing CRUD operations using Entity Framework	**Assignment #2 Released (10%)** *Based on Module 6*
12		**Assignment #2 Due**
13	**Module 7: SOA Development:** • WCF introduction • Contracts • Bindings • Hosting • Security	**Quiz #4 (5%)** *Based on Modules 6-7*
14	**Final Exam (30%)**	

RESOURCES:

Required Software: **Microsoft Visual Studio**

Download: https://www.visualstudio.com/downloads/

Resources: Provided by the professor

ATTENDANCE:
- Attendance at all regularly scheduled classes is expected.
- Class exercises, quizzes and exams must be done on the days specified.
- Make-ups will not be given for in-class components except under unforeseeable and extraordinary circumstances.
- It is your responsibility to catch up on any missed material.

ASSIGNMENTS:
- Due dates and special instructions for submission will be specified in SLATE → Assignments.
- Late submissions will be penalized *10% per day for 3 days (includes weekends and holidays).* After 3 days, the assignment *WILL NOT BE ACCEPTED* and will be assigned a mark of "zero".
- Late assignments *will NOT* be accepted for any reason other than unforeseeable and extraordinary circumstances.
  - Evidence of such circumstances must be provided to the Professor via Sheridan email, in the form of supporting documentation from an appropriate source (e.g. doctor's medical note, copy of obituary, police report) no later than 24 hours after any missed assignment or project.
- Students without acceptable documentation or who contact the Professor after the 24-hour deadline will be assigned a mark of "zero" for the assignment or project.
- Refer to the School of Applied Computing's Academic Procedures for Evaluations for more details regarding missed work: [Procedures for Evaluations](#).
- E-mailed assignments will not be accepted.
- All assignments must be completed as individual efforts unless stated otherwise. Please refer to the [Academic Integrity Policy](#).
- **NOTE:** *No makeup assignments, bonus assignments or credit for closed assignments will be given at the end of the term. So be sure to complete the work when assigned.*
- Students are personally responsible for *regular backups* of their work and maintaining their laptops in working condition. Any software or hardware issues *are not* valid excuses for submitting assignments or checkoffs late.
- Accidental submission of something wrong (or empty) is not a valid excuse to submit the right work later.

EXAMS/QUIZZES:
- There are 2 major tests:
  - A Midterm test in Week 7 worth 30%.
  - A Final test in Week 14 worth 30%.
  - *The Midterm and Final exams are combination of quiz and practical.*
- There are 4 quizzes.

- o Each worth 5%.
- Exam/Quizzes must be taken on the day(s) specified.
- There are no make-ups or extensions allowed.
- Exceptions to this procedure will only be made under unforeseeable and extraordinary circumstances.
- Evidence of such circumstances must be provided to the Professor, in the form of supporting documentation from an appropriate source (e.g., doctor's medical note, copy of obituary, police report) *no later than 24 hours* after any missed in class activity.

CHEATING / ACADEMIC INTEGRITY:

- Any attempt at cheating on an assignment/quiz/exam will result in a grade of zero for that particular assessment for both the person copying and the person copied from and will be subject to Academic Integrity sanctions.
- NO BREACH OF THE ACADEMIC HONESTY POLICY WILL BE TOLERATED! This includes, but is not restricted to:
  - o Copying someone's work or test answers.
  - o Giving someone your work or answers, even if you think it is just for their guidance.
  - o Plagiarism of the work of another student or of any source of information without proper attribution.

COPYRIGHT INFRINGEMENT:

- There are several commercial note-sharing or course-sharing websites on the Internet.
  - o For example, Chegg, Course Hero, OneClass, and StuDocu.
- These sites allow students to share study materials such as their own lecture notes.
- Posting materials provided by their professors or sharing their previous assignments and tests, is in violation of the [Academic Integrity Policy](#) at Sheridan.
- **NOTE:**

  "The materials provided in class and in SLATE are protected by copyright. They are intended for the personal, educational uses of students in this course and should not be shared externally or on websites such as Chegg, Course Hero or OneClass. Unauthorized distribution may result in copyright infringement and violation of Sheridan policies."

- Learn more about copyright infringement:
  https://sheridancollege.libguides.com/copyright_students/course_sharing_websites

ANNOUNCEMENTS:

- Announcements and updates for this class and course plan will be posted under Announcements in SLATE.
- It is your responsibility to read these announcements when posted. You will be notified by these announcements, of any updates to class material, cancellations, changes to assignments/quizzes/exams and other pertinent information.
- **NOTE:** Not reading e-mails and checking announcements is not an excuse for missed information.

ACCOMMODATIONS:

- If you are entitled to any accommodations, whether in the classroom, in course materials, on tests, or on assignments, please inform me early in the course.
- If no accommodations are presented, I will assume none are in place.

DISCRIMINATION AND HARASSMENT:

- Sheridan and I are committed to providing a learning environment that respects the dignity, self-esteem and fair treatment of every person engaged in the learning process.
- Behavior which is inconsistent with this principle will not be tolerated.
- Details of Sheridan's policies on Harassment and Discrimination are available in the Student Handbook.

PROGRAM SPECIFICS:

- You must have a cumulative 2.0 GPA or above to graduate from this program even if you have taken all the program courses (See Sheridan's Graduation Policy for full details).
- If you complete all program courses but your *cumulative GPA is below the 2.0 GPA minimum*, you will be required to retake as many courses as needed to increase the grade in these courses until your GPA is above the required minimum.