ISM 240-01: BUSINESS PROGRAMMING
FALL- 2022

Tuesday – Thursday: 12:30 pm – 1:45 pm, 221 Bryan Building

INSTRUCTOR INFORMATION

Name:	Indika Dissanayake
Office:	436 Bryan Building
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Virtual Office Hours:	Thursday 2:00 pm to 3:00 pm. or by appointment

COMMUNICATION RESPONSE:

I will respond to e-mails within 48 hours on M-R. E-mails received F-Sun will be responded to the following Monday.

CATALOG DESCRIPTION

Introduction to the planning and creation of computer programs for solving business-related problems. Emphasis is on problem analysis and structured programming techniques. Students utilize a procedural programming language.

Prerequisites: MAT 115 or higher, and Grade of C or better in ISM 110

COURSE OBJECTIVES

Upon successful completion of this course students will be able to:
- Analyze business-related problems and utilize programming tools, such as flowcharts and pseudo code to plan the solution to those problems.
- Plan and design solutions to business problems.
- Translate those solutions to computer programs.
- Use Visual C# to create and modify files.
- Write, test, and debug Visual C# applications that contain forms, objects, event handling, procedures, sub procedures, functions, decisions, iterations, arrays, databases, and object-oriented programming concepts.

REQUIRED MATERIALS:

Textbook (Recommended):

Starting Out with Visual C#, by Tony Gaddis, 5th edition, ISBN: 9780135183519

The main materials covered in class will come from this book.

Visual Studio 2022/ 2019

This will be the primary working environment. All ISSCM students have access to Visual Studio Enterprise through UNCG's Microsoft Academic Alliance program here: https://azureforeducation.microsoft.com/devtools
You can download and install visual studio on your laptop or access via UNCG MyCloud desktop.

Canvas Course Management Systems (https://canvas.uncg.edu)

Course materials, announcements, and updates will be posted on Canvas regularly. Students are required to check Canvas daily.

Class sessions will be in an interactive lecture/demonstration format. Lectures will give students a basic understanding of analyzing business-related problems and utilizing programming tools to plan solutions to those problems. Class demonstrations will be used to help students translate those solutions to computer programs (write, test, and debug Visual C# applications). Each programming topic may be complemented with exercises to enhance the learning of both elementary and advanced programming concepts covered in this course. Assignments, quizzes, class exercises, exams, and a class project will be used to evaluate students' performances in terms of learning outcomes.

LEGAL NOTICE FOR ZOOM AND COURSE RECORDINGS

This course may be recorded. If you are participating/view webcast (zoom, google chat, etc.) and do not wish to be recorded, please turn off your camera and mute your microphone. You may still use the chat to participate, and we will not archive the chat. Please note that only the main room, not breakout rooms, will be recorded. If you are attending this course in person and do not wish to be recorded, please advise me of that, and all efforts will be made not to record your participation

EVALUATION AND GRADING

Assignments:

C# programming assignments constitute a major portion of the requirements for this course. Students are required to complete five assignments. Each assignment is due at 11:59 p.m. on the scheduled due date. All assignments in this course are submitted electronically via Canvas by the assignment deadline.

Late Assignment & Extra credit:

No late assignments will be accepted after the due date, unless there is a documented extenuating circumstance and approved by the instructor in advance. Extra credit will not be offered.

Class Project

Each student is required to work on a C# application. More details about the project will be given during the course.

Exams:

This course has two exams, a midterm exam and a final exam. Exams will be delivered online. No makeup examination will be offered. If a student must miss a midterm exam and has a written verifiable legitimate excuse for the absence, the weight of that midterm exam may be allocated to the final. The final exam is cumulative. More will be discussed about the exams.

Determination of Course Grade:

The following provides a percentage allocation of each component:

Class project:	20%
Homework Assignments	30%
Quizzes/ Class exercises	10%
Exam 1:	15%
Exam 2 (cumulative):	25%

Points	Grade	Points	Grade	Points	Grade	Points	Grade
94-100%	A	83 – 86.9%	B	73 – 76.9%	C	63 – 66.9%	D
90-93.9%	A-	80 – 82.9%	B-	70 – 72.9%	C-	60 – 62.9%	D-
87 – 89.9%	B+	77 – 79.9%	C+	67 – 69.9%	D+	< 60%	F

E-MAIL COMMUNICATION

Individual E-mail from the Instructor: Individual e-mail messages will be sent to your UNCG e-mail account. Please check your UNCG e-mail daily to be sure you are getting your e-mails (if you are having any technical issues with UNCG e-mail you must get assistance ASAP from TECH Support—contact information under the Faculty & Tech Support link in Canvas; the excuse that your UNCG e-mail was not working is not acceptable)

TECHNICAL SUPPORT:

Students with technical issues with the course and e-mail should contact 6-TECH for support either by e-mail or phone or chat (6TECH Help). Please also make your instructor aware of the issue and if there will be any delays in resolving the issue.

HEALTH AND WELLNESS:

Health and well-being impact learning, access, and academic success. Throughout your time in the university, you may experience a range of concerns that can cause barriers to your academic success. These might include illnesses, strained relationships, anxiety, high levels of stress, alcohol or drug dependency, crime victimization, feeling down, loss of motivation, or death of a loved one. Seeking support confidentially- Student Health Services (SHS), The Counseling Center, and the Campus Violence Response Center are here to help. Learn about the free, confidential mental health and advocacy services available on campus by calling SHS at 336-334-5874 or visiting us on the web: https://shs.uncg.edu/ or calling the CVRC at 336-334-9839 or visiting us on the web at cvrc.uncg.edu or in person at the Anna M. Gove Student Health Center at 107 Gray Drive. For undergraduate or graduate students in recovery from alcohol and other drug addiction, The Spartan Recovery Program (SRP) offers recovery support services. You can learn more about recovery and recovery support services by visiting https://shs.uncg.edu/srp or reaching out to recovery@uncg.edu

BRYAN SCHOOL FACULTY AND STUDENT GUIDELINES

Bryan Faculty and students in this course are expected to adhere to the guidelines stated at this link: https://bryan.uncg.edu/wp-content/uploads/2017/08/Faculty-and-Student-Guidelines-2018-2019.pdf.

ACADEMIC INTEGRITY POLICY

By submitting an assignment, each student is acknowledging their understanding and commitment to the Academic Integrity Policy on all major work for the course. Refer to the following URL: https://osrr.uncg.edu/academic-integrity/

ATTENDANCE POLICY

Students are expected to attend every class session. Each student is responsible for all the information and announcements that are made in class. Students with university-related or requested absences, e.g., field trips in other courses or multiple exams during finals week, must make prior arrangements in advance for any conflicts with their schedule and due dates for the course.

https://catalog.uncg.edu/academic-regulations-policies/university-policies/ .

RELIGIOUS HOLIDAYS:

It is expected that instructors will make reasonable accommodations for students who have conflicts due to religious obligations. Please make arrangements with the instructor in advance of any conflict. For more information on UNCG's Religious Obligations policy, visit: UNCG's Religious Obligations Policy.

ACCOMMODATIONS:

The University of North Carolina at Greensboro respects and welcomes students of all backgrounds and abilities. If you feel you will encounter any barriers to full participation in this course due to the impact of a disability, please contact the Office of Accessibility Resources and Services (OARS). The OARS staff can discuss the barriers you are experiencing and explain the eligibility process for establishing academic accommodations. You can learn more about OARS by visiting their website at https://ods.uncg.edu or by calling 336-334-5440 or visiting them in Suite 215, EUC Building.

COVID-19 STATEMENT:

As we return for Fall 2022, all students, faculty, and staff and all visitors to campus are required to uphold UNCG's culture of care by actively engaging in behaviors that limit the spread of COVID-19. While face-coverings are optional in most areas on campus, individuals are encouraged to wear masks. All individuals and visitors to campus are asked to follow the following actions:

- Engaging in proper hand-washing hygiene.
- Self-monitoring for symptoms of COVID-19.
- Staying home when ill.
- Complying with directions from health care providers or public health officials to quarantine or isolate if ill or exposed to someone who is ill.
- Completing a self-report when experiencing COVID-19 symptoms, testing positive for COVID-19, or being identified as a close contact of someone who has tested positive.
- Staying informed about the University's policies and announcements via the COVID-19 website.

Students who are ill, quarantining, or isolating should not attend in-person class meetings, but should instead contact their instructor(s) so alternative arrangements for learning and the submission of assignments can be made where possible.

As we continue to manage COVID-19 on our campus, we are following the lead of the local health department and we will adjust our plans to balance student success, instructional requirements, and the hallmarks of the collegiate experience with the safety and wellbeing of our campus community.

ELASTICITY STATEMENT:

It is the intention of the instructor that this syllabus and course calendar will be followed as outlined; however, as the need arises, there may be adjustments to the syllabus and calendar. In such cases, the instructor will notify the students in class and via e-mail with an updated syllabus and calendar within a reasonable timeframe to allow students to adjust as needed.

Flexible COURSE OUTLINE

(SUBJECT TO CHANGE DEPENDING UPON THE PROGRESSION OF THE CLASS)

Week	Date	Topics	Reading and Assignment Due
1	Aug-16 Aug-18	Welcome to ISM240: Review Syllabus and Introduction	Chapter 1: Introduction to Computers and Programming Chapter 2: Introduction to Visual C#
2	Aug-23 Aug-25	Data Types and Variables	Chapter 3: Processing Data
3	Aug-30 Sep-01	Making Decisions	Chapter 4: Making Decisions **Assignment 1 due**
4	Sep-06 Sep-08	Making Decisions	
5	Sep-13 Sep-15	**Exam 1** Loops	Chapter 5: Loops, File, and Random Numbers; **Assignment 2 due**
6	Sep-20 Sep-22	Loops	
7	Sep-27 Sep-29	Methods	Chapter 6: Modularizing Your Code with Methods **Assignment 3 due**
8	Oct-04 Oct-06	Methods	**Project proposal due**
9	Oct-11 Oct-13	**Fall Break (No Classes)** Arrays & Lists	Chapter 7: Arrays and Lists
10	Oct-18 Oct-20	Arrays & Lists	**Assignment 4 due**
11	Oct-25 Oct-27	Arrays & Lists Databases	Chapter 12: Databases
12	Nov-01 Nov-03	Databases Object Oriented Programming	Chapter 10: Introduction to Classes **Assignment 5 due**
13	Nov-08 Nov-10	Object Oriented Programming	Chapter 11: Inheritance, Polymorphism, and Interfaces
14	Nov-15 Nov-17	Object Oriented Programming	
15	Nov-22 Nov-24	Object Oriented Programming **Thanksgiving Holiday (No Classes)**	**Class Project due**
16	Nov-29	Exam Review	
	Exam Week	Exam 2	