

PROG 2500: WINDOWS PROGRAMMING C#

History

1. Jan 21, 2022 by Natalie Wentzell (natalie.wentzell)
2. Aug 3, 2022 by Amy Blagden (amy.blagden)
3. Jan 13, 2023 by Kristine Jacobsen (kristine.jacobsen)

Viewing: PROG 2500 : Windows Programming C#

Last approved: Fri, 13 Jan 2023 09:13:30 GMT

Last edit: Wed, 11 Jan 2023 16:18:37 GMT

Change Type

Minor

Change Justification: Why is this change(s) necessary?

Removal of redundant learning outcome.

Change Impact: What is the impact of the change(s)?

No impact.

Name of Proposer

kristine.jacobsen

Email

kristine.jacobsen@nsc.ca

Effective Term

Fall 2024(Term 1248)

Subject Area

PROG - Programming

Catalog Nbr

2500

Course ID

011591

Academic Organization

ITDATANALT - IT and Data Analytics

Academic Group

TEEN - School of Technology and Environment

Curriculum Consultant

Kristine Jacobsen

School Manager

Julia Brandwin-Glait

Other Course Development Team Members

Faculty/Subject Matter Expert(s)

Faculty/Subject Matter Expert(s)

Darren Andrews

Career

Credit

Title (Short)

Windows Programming C#

Title (Long)

Windows Programming C#

Line of Business

Line of Business

Core

Course Description

This course explores Graphical User Interface (GUI) programming in a Windows environment. The emphasis is on learning practical approaches for designing and implementing GUI-based programs using the .NET framework.

Credits

1

Hours

60

Grading Basis

60% (GRD)

Pre-Requisite(s)

PROG 1400, SAAD 1001

Instruction Mode / Course Delivery Method

In person

Attendance Type

Class Meeting

Components

Components	Final Exam	Primary
Independent Study (IND)	Yes	No
Discussion (DIS)	Yes	Yes
Computer Lab (CMP)	Yes	No

Post-Secondary Student Information System (PSIS) Course Data Requirements (Used by Institutional Research)

Delivered Under Contract

No

Retraining/Skills Upgrade

No

Brokered Course

No

Cost Recovery

No

Course Rationale

Learners preparing for careers as programmers need experience in GUI programming. This course provides that experience using one of the programming world's most widely recognized application frameworks, .NET.

Course Outcomes and Objectives

In keeping with NSCC's approach to portfolio learning, learners will have demonstrated the ability to:

Outcome

1. Demonstrate an understanding of Windows form development principles and standards by designing programs with a graphical user interface.

Objectives

1. Develop custom controls incorporating events and delegates.
2. Ensure proper OOP principles are used, separating form code from classes/business objects.
3. Include unit testing in the program design.
4. Develop programs originating from class diagrams.

In keeping with NSCC's approach to portfolio learning, learners will have demonstrated the ability to:

Outcome

2. Incorporate user assistance features into Windows programs to enhance application usability.

In keeping with NSCC's approach to portfolio learning, learners will have demonstrated the ability to:

Outcome

3. Demonstrate database connectivity by developing applications that can consume and manipulate information from a data source.

Learning Outcomes Display (show only)

109: IT Programming (<https://www.nsc.ca/programadmin/?key=109>)

PLO 1: Use problem-solving techniques and systematic procedures to implement IT programming solutions.

PLO 2: Produce software to meet a technical specification.

PLO 3: Produce technical documentation to meet the steps of a software development process (requirements, design, implementation, testing).

PLO 4: Work within a programming development process such as Waterfall or Agile development.

PLO 5: Work within development platforms such as mobile, windows, and Web.

PLO 6: Work with programming languages such as Java, C++, Python, C#, PHP, JavaScript, and others.

PLO 7: Combine software programming with SQL databases, non-SQL databases, or object-oriented databases to create software solutions.

PLO 8: Create software in specific application areas making use of the appropriate Software Development Kits (SDKs) and software libraries.

PLO 9: Employ a version control tool (such as git) to manage software configurations.

PLO 10: Solve business problems by developing new software or extending off-the-shelf applications, within a software development process such as Waterfall or Agile

Other Course Notes:

It is the responsibility of the student to review and understand all Nova Scotia Community College policies, most specifically the Student Community Standards, Academic Integrity, Student Appeals, Use of Copyright Materials, and Academic Accommodation policies. Policies directly applicable to students are referenced in the student handbook. The policies and procedures can be found on the College website: <https://nsc.ca/policies> (<https://nsc.ca/policies/>)

If you have questions about policies and/or procedures, you are encouraged to ask Faculty, your Academic Chair or Staff at Student Services.

Workplan

A workplan for this course is attached and will be reviewed by your faculty member(s) within the first week of class study.

Summary of Changes

Summary of Changes

Academic Year 2023-24

Learning Outcomes: revised

Key: 5543