**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number:** ITSE 2338

**Course Title:** C# Database Development with ADO.NET and LINQ

**Course Description:** C# applications to access data from a database. Emphasizes Object-Oriented Programming (OOP) and database programming with ADO.NET.

**Course Credit Hours:** 3   
 Lecture Hours: 3   
 Lab Hours: 1

**Prerequisite:** ITSE 1330 or consent of Associate Dean

**Student Learning Outcomes:**

* **State-mandated Outcomes:** Upon successful completion of this course, students will:

1. Use ActiveX Data Objects (ADO) to implement the connected data model
2. Implement a client-server application.
3. Design and implement an n-tier application.
4. Use Windows Forms to implement the Graphical User Interface (GUI)

* **Additional Collin Outcomes:** Upon successful completion of this course, students will:

1. Describe ADO.NET classes.
2. Write program using typed datasets and bound controls.
3. Write program using untyped datasets and unbound controls.
4. Write program using parameterized queries.
5. Write program using stored procedures.
6. Write program using Data Reader and Data Commands.
7. Write a comprehensive database application.

**Withdrawal Policy:** See the current *Collin Registration Guide* for last day to withdraw.

**Collin College Academic Policies:** See the current *Collin Student Handbook.*

**Americans with Disabilities Act Statement:** Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.