

Prerequisite: CS201 and CS222 (CS326 preferred) or consent of instructor.

Objective: Prepare the student to work for a Microsoft shop that utilizes Microsoft Visual Studio. Most assignments and class examples will use C#. However, Visual Basic will be covered lightly (see Assignments below).

Required materials:

- **Text:** C# Software Solutions: Foundations of Program Design by John Lewis. This introductory programming text will be used to teach the C# language syntax during the first 3 weeks of class. If you know Java and C++, you may elect to not purchase the text and study on your own.
- **Text:** ADO.Net 2.0 from the Applications Programmer Standpoint by Ken Culp. This is a preliminary book that will be provided during class.
- Laptop computer with Visual Studio .Net and SQL Express. Contact the help desk to install this software. The installation takes quite some time (up to 1 hour or more).

Attendance:

Attendance is required and will be checked daily. In case of an illness or other emergency that results in class absence, you are responsible for keeping up with assignments. Do not assume that I know you are ill. **Since attendance affects your grade, documentation will be required for excused absences.** Use e-mail to let me know. Note also that being tardy twice will count as one absence.

Assignments, projects, quizzes:

Visual Basic is optional for this class but can be used on any exercise provided you also do some exercises in C#. It is strongly recommended, that you complete some assignments in both languages.

About 3 major projects will be assigned during the semester. I can pick your project topics **or you may propose them to me.** If you have done some interesting project in another class, feel free to propose converting it to .Net. All projects must be interactive database applications. If you know of a non-profit that needs an application, please bring it to my attention.

If time permits, we may explore writing web applications using ASP .Net. .Net allows actual code to be written for the server side (as opposed to scripts) which are compiled as DLL's and debugged on a remote station. You can have Internet Information Services (IIS) installed on your laptop for writing and testing ASP on your laptop without need of a web server. However, this creates a major security issue. Be sure and lock down IIS as much as possible or keep it disabled when not testing your applications. **You may want to disconnect the network (cable and wireless) while IIS is enabled.**

Graded Items:

There will be a major exam over the C# language and one on ADO. There will also be several small graded programming assignments worth 10 points each (see grading system below). The remainder of your grade will be based on group programming assignments which will be presented to the class. The Final Exam will be your presentation on a large group programming project.

Approximate Grading Scale (there may be more or less quizzes):

| | |
|--|-------------------|
| 5 individual programming projects | 50 points |
| C# Syntax Exam | 100 points |
| ADO Exam | 100 points |
| Midterm Group Project | 100 points |
| Final Exam Group Project | 100 points |
| Class participation, attitude, attendance and effort | <u>50 points</u> |
| Approximate Total: | 500 points |

Approximate Grading Scale:

A: 90-100 %; B: 80-89 %; C: 70-79 %; D: 60--9 %; F: < 60 %.

To pass the course you must complete all projects.

Contact Information:

Email kculp@nmu.edu
Phone: 227-1841

Office Hours (NSF 1105):

MTWR: 8:00am - 8:50am
MTWR: 11:00am – Noon
(other hours by request)

Please let me know in advance when you need help. If I am not in my office during office hours, send me an email and I will come in to meet you. Normally I will be in the office during those hours. Tape recording of class sessions is permitted; study groups are strongly recommended.

Students with Disabilities:

If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office located in Room 1104 of the University Center (227-1700; TTY 227-1543). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.

Final Commitment:

You and I are a team in this class with the same objective – for you to learn the material and to receive a passing grade in the class. However we must work together as a team. Your job on our team effort is to give all assignments your very best effort **AND** ask for help when needed. My job is to insure that you learn the material. Do your part as noted above and I commit that you will pass.