

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:** Windows-Based Applications with Microsoft Visual Basic .Net and C# .Net from Microsoft Press (ISBN: 0-7356-1533-0). The text illustrates all concepts in both C# and VB (there being only syntactic differences in the use of either language).
- Laptop computer with Visual Studio .Net and IIS installed. 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:

The text is designed for certification as part of Microsoft Certified Solutions Provider and includes a variety of exercises which we will follow fairly closely in class. From time to time I will ask to see the completed exercises which will be graded as a 10-point quiz. If you have an unexcused absence on the day I spot check an exercise, you will receive a zero for that quiz. If you have an excused absence, the quiz will not be counted in any way towards your final grade.

Visual Basic is optional but can be used on any exercise provided you also do some exercises in C#. It is strongly recommended, however, that you complete at least part of the exercises in VB.

About 3 major projects will be assigned during the semester and at least one of these must be done in C#. 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. Typical projects include link-lists, simple interactive applications that save information to disk (serialize or I/O), graphical programs like fractiles and image projections, etc. You will be required to do at least one database application using either SQL or Microsoft Jet (Access).

If time permits, we will also 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 or wireless) while IIS is enabled.**

Tests & Quizzes:

There will be a major exam over one chapter about every 2 weeks. Also 10 quizzes or so will be given worth 10 points each (see grading system below). Most quiz questions will be taken directly from your homework notebook so you will only have time to copy your answers from your notebook, not work the problems. You may not use your book during quizzes but may use your homework notebook. No make-up quizzes will be given. For students with fewer than 4 unexcused absences, the lowest quiz score will be dropped if doing so would improve the student's average. There will be a 100-point test after each of the first six chapters. Tests will cover reading, homework, and concepts discussed in class. No test scores will be dropped. You must take tests and quizzes at their scheduled times. No make-up is possible for any test unless you notify me **before** test time. A documented excuse is necessary in order to take a make-up test. Quizzes and tests are frequently given on Mondays, Fridays, or the day before or after a break. Grades on quizzes and tests are not "curved." The comprehensive final exam will be worth 200 points.

Final Exam:

The final exam will be a simple project to be programmed during the two-hour Final Exam period. This will be a simplified version of some of the exercises and applications given in class. The objective is to insure that you have learned the material and can comfortably program in C# and use the class libraries (Name Spaces).

Students who have missed no more than 3 hours of **excused** absences and 1 hour unexcused (or 4 hours **excused**) and have about an 83 average (**B**) or above after all quizzes and projects may be allowed to skip the final and receive their current score as their grade in the class. If you do not meet these criteria, please don't ask to skip the final. Skipping the final is at the discretion of the instructor and an email will be sent that specifically excuses you from the final.

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

8 quizzes (homework checks)	80 points
4 Major Projects (100 points each)	400 points
Final Exam Project	200 points
Class participation, attitude, attendance and effort	<u>50 points</u>
Total:	730 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 and take the final exam (unless you are exempted from the final).

Contact Information:

Email kculp@nmu.edu
 Phone: 227-1841

Office Hours are MTWRF: 11:00am - 12:45pm with others times by appointment.

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 Student Disability Services in the Disability Services Office at 1104 UC (phone: 227-1737; 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 you part as noted above and I commit that you will pass.