

**MIDSTATE COLLEGE**  
**411 W. NORTHMOOR RD. PEORIA, IL 61614**  
**(309) 692-4092 (800) 251-4299**  
**SP 2005**

**Course number & Name:** CIS 280 Visual Basic Programming III

**Credit hours:** 4

**Method of Delivery:** Classroom

Monday/Wednesday Day Class 10.05 – 11.50 AM

**Course Description:** The student will learn advanced programming techniques using the current version of Microsoft Visual Basic. Students will expand their knowledge of object-oriented programming techniques. Topics will include advanced data handling, ActiveX controls, DLL procedures, OLE objects, and interfacing with Microsoft Office applications. A lecture period will be followed by instructor-assisted lab time to provide students with hands-on learning experience.

**Prerequisite:** CIS 230 Visual Basic Programming II

**Text(s) & Manual(s):** Programming Visual Basic.Net, Pub. Date: 17 April, 2002

**Author(s):** Francesco Balena

**Publisher:** Microsoft Press, ISBN 0-7356-1375-3

**Materials needed for this course:** Visual Studio.Net 2003

**Topics:** Object-oriented programming, class fundamentals, inheritance, arrays, lists and collections, Win32 applications-windows forms applications, controls, database applications-ADO.Net in connected mode, ADO.Net in disconnected mode, XML and ADO.Net, internet applications-web forms and controls, ASP.Net applications, user controls and custom controls.

**Learning Objectives:** Upon completion of this course, the student will be able to:

- Create truly object-oriented applications with Visual Basic.Net
- Implement inheritance
- Use arrays and collections
- Create front-end applications
- Create new custom controls in Windows applications
- Retrieve data from SQL Server or OLEDB data source in Connected Mode
- Retrieve data from SQL Server or OLEDB data source in Disconnected Mode
- Read and write XML files
- Create internet applications
- Configure, cache, secure, debug and trace ASP.Net applications
- Create user controls and custom controls in web applications

**Midstate Grading scale:**

90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

**Midstate Plagiarism Policy:**

Matters related to academic honesty or contrary action such as cheating, plagiarism, or giving unauthorized help on examinations or assignments may result in an instructor giving a student a failing grade for that academic effort and also recommending the student be given a failing grade for the course and/or be subject to dismissal.

Plagiarism is using another person's words without giving credit to the author. Original speeches, publications, and artistic creations are sources for research. If you use the author's words in your papers or assignments, you must acknowledge the source. Plagiarism is strictly against the academic policy of the college and is grounds for failing the course. If repeated, plagiarism may result in suspension from the college.

**Instructor Information:** Renuka Vallarapu     [rvallarapu@midstate.edu](mailto:rvallarapu@midstate.edu)     692-4092 ext. 1221

**Participation Requirements:**

- 1) **Assignments:** Homework is due at the beginning of the class period. All homework is to be turned in with your name, date, and the name of the assignment at top. 70% is the highest score that late or make up work can earn. No make up work is accepted during finals week.
- 2) **Exams:** Must be taken on the dates scheduled by the instructor. Failure to take an exam on the scheduled date will result in a grade of "F" (0 points). Make-up exams will be given only when special circumstances are approved by the instructor. Make-up exams must be taken in the testing center. It is the student's obligation to make the appropriate arrangements to have a test administered.
- 3) **Attendance:** Regular attendance is expected. It is the student's responsibility to notify the instructor when a class will be missed. If you know of a conflict ahead of time, you are welcome to submit projects early.
- 4) **Academic Dishonesty:** Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper or project; failure in course; and/or expulsion from the college. For more information refer to the "Academic Dishonesty" policy in the student handbook.
- 5) **Grades:** It is the students' responsibility to keep copies of all assignments turned in for a letter grade until the end of the quarter when a final grade has been earned. If a document is lost and no copy is available, the student will not receive credit.
- 6) **Behavior:** Cell phones / beepers are prohibited from use in this course. Also, do NOT use e-mail/messenger programs during class. This is not only rude to your instructor, but also distracts you and others around you from the learning experience.

**Methods of evaluating student performance:** Homework assignments are used to assess students' critical thinking skills.

**Examination Information:** The Assignment/exams will be a combination of fill-in the blank, true/false, multiple-choice questions, matching, and a hands-on practicum.

**Instructor's Grading Scale:**

These percentages are all approximate values	
- Attendance/participation	10%
- Assignments (10X5%)	50%
- Mid-Term	20%
-Final	20%

### Schedule

Class	Date	Topics	Home Work	Points
Class:1	Feb-23-2005	CLASS Fundamentals-Fields, Methods, Properties, Constructors,		
Class:2	Feb-28-2005	CLASS Fundamentals- Object Lifetime, Events, Shared members	Assignment-1 Handed-out	
Class:3	Mar-2-2005	Inheritance-Inheritance in previous VB versions, Inheritance in VB.Net	Assignment-1 Due	5
Class:4	Mar-7-2005	Inheritance-Over-riding Members in the Base class, Sealed and virtual classes, Scope	Assignment-2 Handed-out	
Class:5	Mar-9-2005	Arrays, Lists and Collections-The Array class, The System.Collections Namespace	Assignment-2 Due	5
Class:6	Mar-14-2005	Arrays, Lists and Collections-Custom collection and dictionary classes	Assignment-3 Handed-out	
Class:7	Mar-16-2005	Windows Forms applications-Form Basics, The Form object	Assignment-3 Due	5
Class:8	Mar-28-2005	Windows Forms applications-Form Inheritance, Advanced Form techniques and other Useful objects	Assignment-4 Handed-out	
Class:9	Mar-30-2005	Controls- Windows Forms controls, Data-binding	Assignment-4 Due	5
Class:10	Apr-4-2005	Mid-Term		20
Class:11	Apr-6-2005	Controls-Custom control creation, Hosting Custom controls in Internet Explorer	Assignment-5 Handed-out	
Class:12	Apr-11-2005	ADO.Net in Connected Mode- The Transition in ADO.Net, The Connection Object	Assignment-5 Due	5
Class:13	Apr-13-2005	ADO.Net in Connected Mode-The Command object, The DataReader Object	Assignment-6 Handed-out	
Class:14	Apr-18-2005	ADO.Net in Disconnected Mode- The DataSet object	Assignment-6 Due	5
Class:15	Apr-20-2005	ADO.Net in Disconnected Mode-The DataAdapter class	Assignment-7 Handed-out	
Class:16	Apr-25-2005	XML and ADO.Net- Reading and Writing XML files	Assignment-7 Due	5

Class:17	Apr-27-2005	XML and ADO.Net-Working with the XML DOM,XML Features in ADO.Net	Assignment-8 Handed-out	
Class:18	May-2-2005	Web Forms and Controls-Basic Web Forms Concepts, The Page class	Assignment-8 Due	5
Class:19	May-4-2005	Web Forms and Controls-Web Forms Controls Template controls,	Assignment-9 Handed out	
Class:20	May-9-2005	ASP.Net applications-ASP.Net Intrinsic objects, State Management and Caching, The Global.Asax File, Tracing	Assignment-9 Due	5
Class:21	May-11-2005	ASP.Net applications-HTTP Modules and Handlers,ASP.Net Security,ASP.Net Configuration Files,ASP.Net Performance counters	Assignment-10 Handed-out	
Class:22	May-16-2005	User Controls and Custom Controls	Assignment-10 Due	5
Class:23	May-18-2005	Final Exam		20

Sub-Total	90
Attendance	10
<b>TOTAL</b>	<b>100</b>