

MIDSTATE COLLEGE
411 W. NORTHMOOR RD. PEORIA, IL 61614
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SP 2005

Course number & Name: CIS 245 Visual C++ Programming II

Credit hours: 4

Method of Delivery: Classroom

Monday/Wednesday Day Class 8.15 – 10.00 AM

Course Description: The student will learn intermediate programming and problem solving techniques using the current version of Microsoft Visual C++. Students will interface design, built-in and user-defined data types; structured types, data abstraction and classes; arrays of records and class objects; array processing and array based lists; pointers, dynamic data and reference types; linked structures and recursion. Object-oriented programming techniques will be introduced in this course. A lecture period will be followed by instructor-assisted lab time to provide students with hands-on learning experience.

Prerequisite: CIS 240 Visual C++ Programming I

Text(s) & Manual(s): Visual C++.Net, Publish date: May 24, 2002

Author(s): Don Gosselin

Publisher: Thomson Course Technology, ISBN 0-619-01657-4

Materials needed for this course: Visual Studio.Net 2003

Topics: C++ programming basics, operators and control structures, debugging, classes, memory management, object manipulation, inheritance, designing the visual interface, connecting to databases.

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

- Work in the Visual Studio IDE
- Work with arrays/advanced array techniques
- Work with decision-making statements
- Use the basic debugging techniques
- Work with object-oriented programming and classes
- Dynamically allocate memory
- Work with constructors, destructors, overload operators
- Create abstract classes
- Design the visual interface
- Connect to database with MFC

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 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 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%
- Assignment(9X5%)	45%
- Mid-Term	20%
-Final	25%

Schedule

Class	Date	Topics	Home Work	Points
Class:1	Feb-23-2005	C++ Programming Basics-Theory		
Class:2	Feb-28-2005	C++ Programming Basics-Lab	Assignment-1 Handed-out	
Class:3	Mar-2-2005	Operators and Control Structures-Theory	Assignment-1 Due	5
Class:4	Mar-7-2005	Operators and Control Structures-Lab	Assignment-2 Handed-out	
Class:5	Mar-9-2005	Debugging- Theory	Assignment-2 Due	5
Class:6	Mar-14-2005	Debugging- Lab	Assignment-3 Handed-out	
Class:7	Mar-16-2005	Introduction to Classes-Theory	Assignment-3 Due	5
Class:8	Mar-28-2005	Introduction to Classes- Lab	Assignment-4 Handed-out	
Class:9	Mar-30-2005	Memory Management- Theory	Assignment-4 Due	5
Class:10	Apr-4-2005	Mid-Term		20
Class:11	Apr-6-2005	Memory Management- Lab	Assignment-5 Handed-out	
Class:12	Apr-11-2005	Object Manipulation- Theory	Assignment-5 Due	5
Class:13	Apr-13-2005	Object Manipulation- Lab	Assignment-6 Handed-out	
Class:14	Apr-18-2005	Inheritance- Theory	Assignment-6 Due	5
Class:15	Apr-20-2005	Inheritance- Lab		
Class:16	Apr-25-2005	Inheritance- Lab	Assignment-7 Handed-out	
Class:17	Apr-27-2005	Designing the Visual Interface- Theory	Assignment-7 Due	5
Class:18	May-2-2005	Designing the Visual Interface- Lab		
Class:19	May-4-2005	Designing the Visual Interface- Lab	Assignment-8 Handed-out	
Class:20	May-9-2005	Connecting to Databases-Theory	Assignment-8 Due	5
Class:21	May-11-2005	Connecting to Databases- Lab		

Class:22	May-16-2005	Connecting to Databases- Lab	Assignment-9 Handed-out	
Class:23	May-18-2005	Final Exam	Assignment-9 Due	5 25

Sub-Total 90
Attendance 10

TOTAL 100