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CS 242: Computer Programming III

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CS 242 Computer Programming III

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Office Hours: Tuesday and Thursday 5:45 PM – 6:45 PM
and by appointment

Textbook: *Data Structures & Other Objects Using C++, 4th Edition*,
by Michael Main and Walter Savitch, Addison-Wesley, 2010
ISBN: 978-0-13-212948-0

Language: Microsoft Visual C++
(Microsoft Visual Studio 2010 is available as a free download for WSU students
at www.dreamspark.com or you can also use the express version available at
<http://www.microsoft.com/express/Windows/>)

Workload:	4	Programming Assignments (@ %7.5)	30%
	1	Midterm Examination	25%
	8	Laboratory Projects (@2.5%)	20%
	1	Final Examination	25%

Grading: 90-100 A, 80-89.9 B, 70-79.9 C, 60-69.9 D, below 60 F

Week	Topics	Reading
1	Basic C++ Syntax (C++ vs Java) I/O Streams Exception Handling	Chapter 1-3 Appendix F Appendix L
2	Dynamic Memory Allocation and Pointers	Chapter 4
3-4	Linked Lists (singly linked, doubly linked and circular)	Chapter 5
5	Templates, Iterators and Standard Template Library (STL), Inheritance, Polymorphism and Virtual Functions	Chapter 6 Chapters 14.1-14.3
6	Stacks and Queues Applications	Chapter 7-8
7-8	Recursion (Review) Binary Trees and Binary Search Trees	Chapter 9 Chapter 10
9-10	Sorting by insertion, selection and exchange Advanced Sorting Algorithms: Quicksort, Heapsort and Mergesort Searching (linear, binary and interpolation)	Chapter 12.1 Chapters 11.1 and 13