Spring 2006

CS 242-01: Computer Science III

Mateen M. Rizki
Wright State University - Main Campus, mateen.rizki@wright.edu

Follow this and additional works at: https://corescholar.libraries.wright.edu/cecs_syllabi
Part of the Computer Engineering Commons, and the Computer Sciences Commons

Repository Citation
https://corescholar.libraries.wright.edu/cecs_syllabi/312

This Syllabus is brought to you for free and open access by the College of Engineering & Computer Science at CORE Scholar. It has been accepted for inclusion in Computer Science & Engineering Syllabi by an authorized administrator of CORE Scholar. For more information, please contact corescholar@www.libraries.wright.edu, library-corescholar@wright.edu.
Instructor: Dr. M. M. Rizki  
Office: 432 Russ Engineering  
Phone: 775-5117  
Email: mateen.rizki@wright.edu  
Office Hours: Monday and Wednesday 12:15-1:15 PM, 5:30-6:00 PM or by appointment

Textbook:  
*Data Abstraction and Problem Solving with C++, 4th Edition, Addison-Wesley, 2005* by Frank Carrano and Janet Prichard (Required)  
*Big C++, C. Horstmann and T. Budd, Wiley, 2005 (Recommended)*

Language: Microsoft Visual C++ (.NET)

Workload:  
<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Reading</th>
</tr>
</thead>
</table>
| 1-2.5 | Software Engineering and Design  
C++ Templates and Exceptions | Chapters 1 and 3  
Horstman and Budd: Big C++, Chapters 19,22 |
| 2.5-3 | Recursion Revisited | Chapter 2 and 5 |
| 4 | The Stack ADT  
Stack Applications | Chapter 6 |
| 5 | The Queue ADT  
Queue Applications | Chapter 7 |
| 6-7 | Searching and Sorting Algorithms  
Computational Complexity | Chapter 9 |
| 8-9 | Hierarchical Data Structures  
Binary Search Trees | Chapter 10 |
| 10 | The Table ADT | Chapter 11 |

Grading:  
| 90-100 | A |
| 80-89.9 | B |
| 70-70.9 | C |
| 60-60.9 | D |
| below 60 | F |