**CS2024 FALL 2021 SYLLABUS**  
(as of 8/25/21, subject to change)

**Tuesdays and Thursdays, 12:25PM – 1:15PM (Rockefeller Hall 201)**  
Ron DiNapoli, Lecturer

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<th>DATE</th>
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| Thursday, 8/26 | Lecture #1 – Introduction  
Assignment #1 given (due 9/1)                                                  | Chapter 1                  |
| Tuesday, 8/31  | Lecture #2 – Input/Output and Operators                                       | Chapter 2                  |
| Thursday, 9/2  | Lecture #3 – Introduction to Classes  
Assignment #2 given (due 9/8)                                                   | Chapter 3                  |
| Tuesday, 9/7   | Lecture #4—Control Statements                                                | Chapters 4,5               |
| Thursday, 9/9  | Lecture #5—Functions I  
Assignment #3 given (due 9/15)                                                  | Chapter 6                  |
| Tuesday, 9/14  | Lecture #6—Functions II                                                      | Chapter 6                  |
| Thursday, 9/16 | Lecture #7—Functions III  
Assignment #4 given (due 9/22)                                                  | Chapter 6                  |
| Tuesday, 9/21  | Lecture #8—Arrays and Vectors                                                 | Chapter 7                  |
| Thursday, 9/23 | Lecture #9—Pointers  
Assignment #5 given (due 9/29)                                                  | Chapter 8                  |
| Tuesday, 9/28  | Lecture #10—Classic Arrays and Pointer Arithmetic                             | Chapter 8                  |
| Thursday, 9/30 | Lecture #11—Classes: A Deeper Look  
Assignment #6 given (due 10/13)                                                 | Chapter 9                  |
| Tuesday, 10/5  | Lecture #12—Operator Overloads                                                | Chapter 10                 |
| Thursday, 10/7 | Prelim #1  
(Covers lectures 1-11, assignments 1-5)                                     | *In class*                 |
| Tuesday, 10/12 | No class, fall break                                                          | *No class*                 |
| Thursday, 10/14| Prelim #1 review  
Assignment #7 given (due 10/20)                                                | *In class*                 |
| Tuesday, 10/19 | Lecture #13—Inheritance                                                      | Chapter 11                 |
| Thursday, 10/21| Lecture #14—Polymorphism  
Assignment #8 given (due 10/27)                                                 | Chapter 12                 |
| Tuesday, 10/26 | Lecture #15—Stream I/O                                                        | Chapter 13                 |
| Thursday, 10/28| Lecture #16—Function Pointers and Lambdas  
Assignment #9 given (due 11/3)                                                 | Chapter 16 (16.3)          |
| Tuesday, 11/2  | Lecture #17—File Processing                                                   | Chapter 14                 |
| Thursday, 11/4 | Lecture #18—Standard Template Library  
Assignment #10 given (due 11/10)                                                | Chapter 15                 |
| Tuesday, 11/9  | Lecture #19—Exceptions                                                        | Chapter 17                 |
| Thursday, 11/11| Lecture #20—Custom Templates  
Assignment #11 given (due 11/17)                                                 | Chapter 18                 |
| Tuesday, 11/16| Lecture #21—Multiple Inheritance                                              | Chapter 23 (web)           |
Thursday, 11/18 | Lecture #22—Smart Pointers  
Assignment #12 given (due 11/24) | Chapter 24 (web)  
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Tuesday, 11/23 | Lecture #23—Casting and STL Algorithms | Chapter 16  
Thursday, 11/25 | Thanksgiving Break | No class  
Tuesday, 11/30 | Lecture #24—Bitwise Operations, MultiByte characters in strings |  
Thursday, 12/2 | Prelim #2  
(Covers lectures 12-23, assignments 6-12) | In class  
Tuesday, 12/7 | Prelim #2 Review, Final Thoughts | In class  

CONTACT INFORMATION

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Ron: Tuesdays, 4-6PM, 441-B Gates Hall  
Ron: Wednesdays, 7-8:30PM, 441-B Gates Hall  
Priya: Tuesdays, 6-7:30PM, 408 Rhodes  
Priya: Wednesdays, 12-1:30PM, 405 Rhodes

Course Web Site: [http://www.cs.cornell.edu/courses/cs2024/2021fa](http://www.cs.cornell.edu/courses/cs2024/2021fa) (info)  
CMS: https://cmsx.cs.cornell.edu  
Canvas: https://canvas.cornell.edu

Book: “C++: How To Program” by Deitel & Deitel (10th edition)  
*Book will be available electronically through Canvas*