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|-----------------|-------------------------|----------------------|
| <b>Advisers</b> | Dr. Jill Katz .....     | jckatz@yu.edu        |
|                 | Ms. Illana Julius ..... | illana.julius@yu.edu |
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## Computer Science Major Total Credits: 46

|                |                                  |                           |
|----------------|----------------------------------|---------------------------|
| <b>Faculty</b> | Prof. Alan Broder .....          | alan.broder@yu.edu        |
|                | Prof. Lawrence J Teitelman ..... | lawrence.teitelman@yu.edu |
|                | Dr. Joshua Waxman .....          | joshua.waxman@yu.edu      |

| Required Courses                                   | Credits   |
|--|-----------|
| COMP 1300 C      Introduction to Computer Science  | 4 Credits |
| COMP 1320 C      Data Structures                   | 4 Credits |
| COMP 1504          Discrete Structures             | 3 Credits |
| COMP 2115 C      Computer Systems                  | 4 Credits |
| COMP 2545          Algorithms                      | 3 Credits |
| COMP 3563          Database Systems                | 3 Credits |
| COMP 3640          Programming Languages           | 3 Credits |
| COMP 3650          Object-Oriented Software Design | 3 Credits |
| MATH 1412          Calculus I                      | 4 Credits |
| MATH 1413 *      Calculus II                       | 4 Credits |
| MATH 2105 *      Linear Algebra                    | 4 Credits |
| COMP - - - -      Computer Science elective 1 **   | 4 Credits |
| COMP - - - -      Computer Science elective 2 **   | 3 Credits |

\* MATH 1413 and MATH 2105 may count toward the elective category of the General Education requirements.

**\*\* Recommended electives are:**

|  |           |
|--|-----------|
| COMP 2314 C      Linux Programming for Data Analysis | 4 Credits |
| COMP 3780          Web Programming & Development     | 3 Credits |
| COMP 4930 H      Natural Language Processing         | 3 Credits |

## Computer Science Minor

| Required Courses                                  | Credits   |
|---|-----------|
| COMP 1300 C      Introduction to Computer Science | 4 Credits |
| COMP 1320 C      Data Structures                  | 4 Credits |

**Plus** four (4) additional courses in Computer Science