

**NEWARK COLLEGE OF ENGINEERING**

**SYLLABUS AND COURSE INFORMATION**

- Course Name:** Technology Applications of Object-Oriented Programming
- Course Number:** ECET 444
- Course Structure:** 2-2-3 (lecture hr/wk – lab hr/wk – course credits)
- Course Description:** Brings together prior software knowledge and applies it to develop modern software applications. Comprised of theory and hands-on applications in the lab. Concepts in modular/structured design and object-oriented design will be combined to develop modern internet and database connected applications. Examine several case studies during the last few weeks. Design, construct, and test a practical software project.
- Prerequisites:** ECET 344 and Junior or Senior Standing
- Corequisites:** None
- Required, Elective, or Selected Elective:** Elective
- Required Materials:** **Text:** Name: Programming with Java  
Author: Julia Bradley, Anita Millsbaugh  
Year: 2001  
ISBN: 978-0-07-248819-7
- Course Outcomes:** By the end of the course students are able to:
1. Write, test, and troubleshoot basic programs containing a user interface in a modern object oriented programming language.
  2. Design software user interfaces.
  3. Demonstrate and develop modular, structured, and reusable code.
  4. Write software that can store and retrieve information from Internet connected sources such as web services and databases.
  5. Complete a long-term software project.
  6. Generate professional software use manuals and code documentation.
- Class Topics:** Object Oriented Programing    Relational Databases  
Web Services                            User Interfaces  
Software Documentation            Code Reuse  
End User Documentation

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**Academic Integrity:** Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at:

<http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>

Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university. If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at [dos@njit.edu](mailto:dos@njit.edu)

**Modification to Course:** The Course Outline may be modified at the discretion of the instructor or in the event of extenuating circumstances. Students will be notified in class of any changes to the Course Outline.

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**Course Coordinator:** Daniel Brateris

**Updated** 26 January 2022