



ADVANCED PROGRAMMING

Course Number	EECE 351
Course Name	ADVANCED PROGRAMMING
Credit Value (Breakdown of theory and lab credits)	3 credits, 2 Theory + 1 Lab
Catalog Course Description	This is an advanced programming class that exposes the student to computer science and software engineering concepts such as Object-oriented Design, data structures, graphical user interfaces and thread. The students will use an object-oriented language to learn about these concepts. Prerequisite: EECE 231. (Spring) 3, 2T+1L
Student Learning Outcomes/Objectives /Competencies of the Course	On completion of this course, the student will have the skills to use the following advanced Java programming language features: <ol style="list-style-type: none"> 1. Collections, arrays, prebuilt generic data structures, iterators, and hash functions. 2. Functional programming, lambda expressions, Streams, and Stream pipelines. 3. Recursion functionality 4. Searching algorithms, sorting algorithms, and Big O notation 5. Generic classes and methods, raw types, wildcards 6. Custom generic data structures 7. Linked data structures, manipulate dynamic data structures, reusable data structure, 8. Advanced GUI components 9. Concurrency, thread lifecycle, ExecutorService, Synchronized methods, SwingWorker, sort, ParallelSort, parallel streams, CompletableFutures. 10. Accessing databases with JDBC.
College-Wide Student Learning Outcomes	Information regarding which of the following college-wide objectives will be addressed in the course along with which assignment will be used to measure this outcome: <ol style="list-style-type: none"> 1. Critical Thought



SAMPLE SYLLABUS

Course Number Course Name	Speech 130 Public Speaking
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Description	Principles of rhetorical theory as applied in public speaking situations: audience analysis, content, organization, style, verbal and non-verbal expression, and critical listening. You will deliver various speeches following selected rhetorical modes. Prerequisite: ENG 109N. (3 credits)
Student Learning Outcomes of the course	<ol style="list-style-type: none"> 1. confront their speech anxiety and practice ways to control it. 2. organize their speeches logically and effectively. 3. develop their speeches with interesting and pertinent information from their own experience and from research. 4. Integrate information from resources effectively and with correct MLA citations 5. practice effective verbal and nonverbal delivery techniques. 6. analyze their audience and design their speeches to most effectively reach the audience. 7. develop critical responses and evaluations to speeches from classmates and other speakers.
College-Wide Student Learning Outcomes	<p>Speech 130 learning objectives align with the following NNMCC College Wide Goal:</p> <p>Communication – Students will express ideas coherently through oral communication and speak appropriately for various audiences and situations.</p> <p>The persuasive speech will be used to assess students’ progress in meeting this goal.</p>