

# COURSE SYLLABUS

**COURSE NUMBER** COP 2253  
**COURSE TITLE** Java Programming  
**COURSE CREDIT HOURS** 3  
**INSTRUCTOR AND CONTACT** Dr. Bernd Owsnicki-Klewe  
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*Disclaimer: This Syllabus might undergo minor changes to adapt it to unforeseen circumstances. The essence of this syllabus will be unchanged.*

## COURSE DESCRIPTION:

Introduction to algorithms and object-oriented programming using Java. Emphasizes developing fundamental programming skills and software engineering principles in the context of an object-oriented language.

## STUDENT LEARNING OUTCOMES:

Upon completion of the course, students will be able to

- use the constructs of the Java programming language as building blocks to develop correct, coherent programs.
- analyze problems, develop object-oriented designs that solve those problems, and transform those designs to Java programs.
- recognize the fundamentals of object-oriented programming using the Java programming language.
- program using the fundamental software development process, including design, coding, documentation, testing, and debugging.

## TOPICS COVERED:

Topics include Java language fundamentals, object-oriented design and development, the Unified Modeling Language (UML), abstraction, encapsulation, class design, data types, methods, parameter passing, introduction to graphics and applets, selection constructs, repetition constructs, arrays, documentation, testing, and debugging.

## TEXTBOOKS AND REFERENCES:

Big Java by Cay Horstmann, 3<sup>rd</sup> edition, ISBN 978-0-470-10554-2, © 2007

## GRADING & EVALUATION:

|                                  |     |
|----------------------------------|-----|
| 2 midterm exams (12%/each)       | 24% |
| 1 final exam                     | 30% |
| 7 programming projects (4%/each) | 28% |
| Labs (3%/each)                   | 18% |

## Grading scale

|        |       |       |       |       |       |       |       |       |       |      |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 93-100 | 90-92 | 87-89 | 83-86 | 80-82 | 77-79 | 73-76 | 70-72 | 67-69 | 60-66 | 0-59 |
| A      | A-    | B+    | B     | B-    | C+    | C     | C-    | D+    | D     | F    |

## eLearning

Course schedule, material, other support and grades will reside in the eLearning system. Log on to <http://elearning.uwf.edu> and select course COP2253

## EXPECTATIONS FOR ACADEMIC CONDUCT/PLAGIARISM POLICY:

[http://uwf.edu/cas/aasr/academic\\_conduct.pdf](http://uwf.edu/cas/aasr/academic_conduct.pdf)

<http://uwf.edu/cas/aasr/Plagiarism.pdf>

## ASSISTANCE:

Students with special needs who require specific examination-related or other course-related accommodations should contact Barbara Fitzpatrick, Director of Disabled Student Services (DSS), [dss@uwf.edu](mailto:dss@uwf.edu), (850) 474-2387. DSS will provide the student with a letter for the instructor that will specify any recommended accommodations.