

# FPP AND MPP PRETEST AND COURSES

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# OVERVIEW

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- The FPP and MPP Courses and the Role of Pretests
- Do You Need FPP?
- Interpreting Pretest Results
- The FPP Pretest Environment
- The MPP Pretest Environment
- Passing FPP and MPP

# THE FPP AND MPP COURSES AND THE ROLE OF PRETESTS

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- FPP Was Created to Prepare You For Our Main Courses

Areas to Strengthen:

- Basic Java
- Data Structures
- The Object-Oriented Paradigm
- Recursion
- Problem-Solving

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- FPP Info:
    - 4-week course
    - No extra cost (exception: if you fail FPP, the cost to repeat is \$3000)
  - FPP Topics
    - The Java language, including Swing, JDBC, and unit testing with JUnit
    - OO Programming in Java (inheritance and polymorphism)
    - Data Structures and their implementation in Java
    - Recursion and its implementation in Java
    - Introduction to features introduced in Java 8, 9, and 10

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- MPP Info

- Every Compro student takes MPP (but not necessarily FPP)
- Four weeks
- No extra cost (exception: if you fail MPP, the cost to repeat is \$3000)

- MPP Topics

- OO design and modeling with UML
- Translating between Java and UML diagrams
- Advanced topics in Java, including lambdas and streams, generics, intro to multithreading, and Advanced Swing (for UI development)



# DO YOU NEED FPP?

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- Competence in the five areas is required for our mainstream courses  
Examples: Advanced Java used in SWE, WAP, WAA. Recursion/Problem-Solving required in Algorithms
- FPP is NOT a "basic course in Java."
- You may be required to take FPP even if you have many years of industry experience.
- How will we decide which course you will start with? We use *pretests*
  - *FPP Pretest* – everyone takes this, and you must pass it (exception: if you took it online in a proctored environment, you do not need to take it again on campus – ask Chandra if necessary)
  - *MPP Pretest* – if you want to start with MPP, you must pass this pretest too

# INTERPRETING PRETEST RESULTS

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## FPP Pretest Scores

- **Pass:** Eligible (not required) to take the MPP pretest
- **Borderline:** First course of your Compro curriculum will be FPP
- **Fail:** Faculty review

## MPP Pretest Scores

- **70-100:** First course of your Compro curriculum is MPP (unless you choose to take FPP as your first course)
- **Below 70:** First course is FPP

# THE FPP PRETEST ENVIRONMENT

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- 1 ½ hour exam
- Internet will NOT be available
- All code to be written in Notepad (that's right, *Notepad*)
- Permitted languages: Java, C, C++, C#
- Two questions
- Question style: “Write a function that accepts certain inputs and returns certain values”. No interactive programming. No main method.
- Each question will ask you to figure out a procedure for solving a problem (example: Write a function which accepts as input an array of integers and which outputs the smallest integer in the array)
- *Preparing for the test.* Follow this link for sample FPP pre-tests and test-taking tips <https://compro.miu.edu/sample-test/>



# MPP PRETEST ENVIRONMENT

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- 2 hour exam
- 3 questions
  - One recursion question (10 points)
  - One data structure question (10 points)
  - One polymorphism question (5 points)
- You must pass the polymorphism question or else automatic fail.
- Internet will NOT be available
- All code to be written in Eclipse IDE . *TIP*: try it out before taking the pretest
- For credit, your code must compile and run
- Permitted language: Java only
- Preparing for the test: handout
- No opportunity to request more points or consult with the grader of the exam

# PASSING THE FPP AND MPP COURSES

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## Passing FPP

- To move past FPP, you must get a B or higher
- If you get below a B, you will be allowed to take FPP a second time.
- Failing FPP twice results in automatic dismissal.

## Passing MPP

- To move past MPP, you must get a B or higher.
- If you get below a B, you will be allowed to take MPP a second time.
- Failing MPP twice results in automatic dismissal.

# QUESTIONS?

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