

## Java Certification Course Information – Spring 2015

### Course

Java Certification, 1 credit

### Course schedule

- 3 sessions
- Wednesdays, 6pm–8pm
- May 20 – June 3

### Instructor

- Dan Ouellette
- E-mail: [douellette@wccnet.edu](mailto:douellette@wccnet.edu) (include “Java Certification” in the e-mail subject)

### Description

- This course is preparation for the Oracle Certified Professional Java Programmer exam. A good working knowledge of Java is expected. The course will focus on the topics and questions that may appear on the certification exam. Three practice exams will be administered:
  - ✓ Before the first course meeting. This exam will gauge what topics may need emphasis during the course.
  - ✓ Before the second course meeting. This is a Level 1 exam similar to the Oracle Certified *Associate* Java Programmer exam.
  - ✓ Before the third and last course meeting. This is a Level 2 exam similar to the Oracle Certified *Professional* Java Programmer exam.

### WCC Alert

- Can notify you of school closings: See web page [wccnet.edu/security/emergency\\_notification.php](http://wccnet.edu/security/emergency_notification.php).

### References

- No references are required but those with practice exam questions are recommended.

### Software development tool

- Eclipse will be used as the software development tool.
- See **Obtaining and Using Eclipse** in the course content on Blackboard.

### Blackboard

- Is an online tool used for course communication at Washtenaw Community College.

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- Login is available at <https://blackboard9.wccnet.edu/index.html>.
- Login requires a username (the leading part of your e-mail address) and a password.

### Grading

- This is a pass/fail course.
- To pass the course, complete each of the three practice exams.

### Students with Disabilities

If you require special accommodations due to a disability, please see me.

### Schedule

Session	Date	Topic	Exam taken
1	Wed, 20 May 2015	Prerequisite exam review Level 1 topics	Prerequisite practice exam
2	Wed, 27 May 2015	Level 1 exam review Level 1 and 2 topics	Level 1 practice exam
3	Wed, 3 June 2015	Level 2 exam review Level 2 topics	Level 2 practice exam

### Course topics

- Modules 1-7 are Level 1 topics tested in the Oracle Certified *Associate* Java Programmer exam.
- Modules 8-15 are Level 2 topics tested in the Oracle Certified *Professional* Java Programmer exam.

Module	Topics	Course references
1	Java basics	CPS 161, Unit 1
2	Java data types	CPS 161, Unit 1
3	Operators Decision constructs Arrays	CPS 161, Unit 1 CPS 161, Unit 2 CPS 161, Unit 3 CPS 161, Unit 7 CPS 161, Unit 8
4	Loop constructs	CPS 161, Unit 3 CPS 161, Unit 4
5	Methods Encapsulation	CPS 161, Unit 5

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<b>6</b>	Inheritance	CPS 161, Unit 9 CPS 161, Unit 10
<b>7</b>	Exceptions	CPS 161, Unit 11 CPS 161, Unit 12 CPS 261, Unit 1
<b>8</b>	Class design	
<b>9</b>	Object-oriented design principles	
<b>10</b>	Generics Collections	CPS 261, Unit 2 CPS 261, Unit 10
<b>11</b>	String processing Assertions	CPS 261, Unit 1
<b>12</b>	Input-output	CPS 261, Unit 2 CPS 261, Unit 3
<b>13</b>	Java Database Connectivity (JDBC)	CPS 278, Unit 7 CPS 278, Unit 8
<b>14</b>	Threads Concurrency	CPS 261, Unit 7
<b>15</b>	Localization	