Division of Continuing Education

CERTIFICATE ELIGIBILITY AND REQUIREMENTS
The Java Enterprise Development Certificate Program is designed for Java programmers who have achieved a level of knowledge and experience equivalent to that of Oracle's Java Certificate. If you are new to Java EE, you should begin with Overview of Java EE in order to gain a complete perspective of the Java EE environment and its components. If you already have some Java EE knowledge, you can request a waiver of the overview course. You still need to complete the remaining required courses and three electives, however. Requests for a waiver can be submitted via email to jdbadwah@uci.edu. Please provide a detailed explanation of why you do not need to take this course.

Students must complete 6 required courses (10 units) and 5 units of elective courses with a grade of “C” or better in each course in order to become an official candidate in this certificate program. All requirements must be completed within 5 years after the student enrolls in his/her first course. Students not pursuing the certificate program are welcome to take as many individual courses as they wish.

WHO SHOULD ENROLL
Practicing Java programmers and software engineers who want to expand their knowledge of the advanced capabilities that are available with the Java programming language and development environment will find this program valuable. It is also ideal for graduates of the Java Programming Certificate Program who want to continue their education and acquire new skills.

PROGRAM BENEFITS
- Use advanced features of the Java programming language to develop complex software for business, science, and technology applications to advance within your field.
- Develop software in Java for web services, distributed enterprise systems, and web-enabled Internet applications such as electronic business.
- Use Java to access, manipulate, and execute business rules using data stored in distributed database systems.

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University of California, Irvine
ce.uci.edu/javaee
**PROGRAM FEES**
The total cost of the program varies depending on the elective courses chosen. Actual fees may differ from the estimate below. Fees are subject to change without prior notice.

| Course Fees (10 required and 5 elective units) | $5,965 |
| Candidacy Fees | $125 |
| Textbooks and Materials | $162 |
| **Total Estimated Cost** | **$6,252** |

**TO ENROLL**
Visit ce.uci.edu/javaee for full course descriptions, instructor biographies, and enrollment information.

**FOR MORE INFORMATION:**
Jackie Badwah  
jdbadwah@uci.edu  
(949) 824-3413

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### JAVA ENTERPRISE DEVELOPMENT CERTIFICATE PROGRAM

#### COURSE # | REQUIRED COURSES | UNITS
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I&C SCI X460.07 | Overview of Java Enterprise Edition Technologies | 1.5
I&C SCI X460.67 | Web Development with Java EE 7 | 1.5
I&C SCI X460.69 | Spring Framework | 1.5
I&C SCI X460.60 | Effective Persistence with JPA (Hibernate) | 1.5
I&C SCI X460.61 | JavaServer Faces (JSF) 2.0 and AJAX | 1.5
I&C SCI X460.68 | Java Web Services | 1.5

#### COURSE # | ELECTIVE COURSES | UNITS
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I&C SCI X460.64 | Java Enterprise Architecture | 1.5
I&C SCI X494.81 | Concepts of Service Oriented Architecture (SOA) | 1.5
I&C SCI X460.53 | Cloud Computing Platform as a Service (PaaS) | 1.5
I&C SCI X494.91 | The Scrum Framework for Agile Project Management | 2.5
I&C SCI X494.85 | Agile Software Design and Programming | 2.5

**ADVISORY COMMITTEE**

- **John Clingan**, Principal Product Manager, Oracle Corp.
- **Craig S. Dickson**, Software Engineer Architect, The Juggernaut Group
- **Martin Hubert**, CEO, Freightgate (eLogistics)
- **Prakash Malani**, Consultant, MCS LLC
- **Paul Moore**, Senior Programmer/Analyst, Capital Group
- **David Otaguro**, Senior Software Engineer, Google
- **Ruben Reusser**, CTO, Headwire
- **Jeff Shelley**, Software Engineer, MedAvant Healthcare Solutions
- **Hong Tan**, Developer, Accenture
- **Ray Tayek**, Independent Consultant

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