Educators can use our modular curriculum and learning pathways to help learners expand knowledge, develop skills, and innovate.

Our curriculum and resources are created by professional educators to offer computing education course pathways spanning from one semester to three years. Institutional member educators receive training, curriculum, software, and teaching resources.

For object-oriented programming (Java), Oracle Academy courses Java Fundamentals, Java Foundations and Java Programming are designed for secondary school and higher education learners. Artificial Intelligence with Machine Learning in Java is suited for more advanced students who have gained fundamental knowledge of object-oriented concepts, data structures, recursion, and Java terminology and syntax from those previous courses.

With Oracle Academy curriculum, students engage in hands-on learning in Java and also develop problem-solving, collaboration, and critical-thinking skills to help them advance in computing across industries and achieve their dreams.

Oracle Academy offers educators rigorous, engaging computing education curriculum using industry-leading technologies to spark student curiosity and imagination, teach critical knowledge and skills, and make them college and career ready.

**JAVA CURRICULUM**

**Java Fundamentals**
Engages participants with little or no programming experience. Participants are introduced to object-oriented concepts, terminology, and syntax using hands-on, engaging activities on easy to use Java platforms to scaffold the knowledge to create basic Java programs.
90 Hours

**Java Foundations**
Engages participants with little programming experience in Java programming using a standard Java editor. Participants are introduced to programming concepts, object-oriented concepts, terminology, and syntax, and the steps required to create basic Java programs.
90 Hours

**Java Programming**
Builds on the skills gained in Java Fundamentals or Java Foundations to help advance Java programming skills. Participants design object-oriented applications with Java and create Java programs using hands-on, engaging activities.
90 Hours

**Artificial Intelligence with Machine Learning in Java**
Building on the skills gained in Java Foundations and Java Programming, students learn and practice machine learning concepts within artificial intelligence. They are introduced to the terminology, syntax, and steps required to create a machine learning solution in Java using hands-on, engaging activities.
40 Hours
### Java Curriculum Language Availability

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<th>English</th>
<th>French</th>
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As Oracle’s global, philanthropic educational program, Oracle Academy advances computing education around the world to increase knowledge, innovation, skills development, and diversity in technology fields. The program engages with thousands of educational institutions and educators in more than 120 countries, helping millions of students become college and career ready.

**Join Oracle Academy today and access all the benefits of Institutional membership.**

Learn more about Oracle Academy Java curriculum at [academy.oracle.com/curriculum](http://academy.oracle.com/curriculum)