

## Learning Pathways

Educators need rigorous, robust, and engaging computing education curriculum to spark curiosity in students and teach them critical technology knowledge and skills. Oracle Academy delivers with learning pathways in Java, database, cloud, and project management.

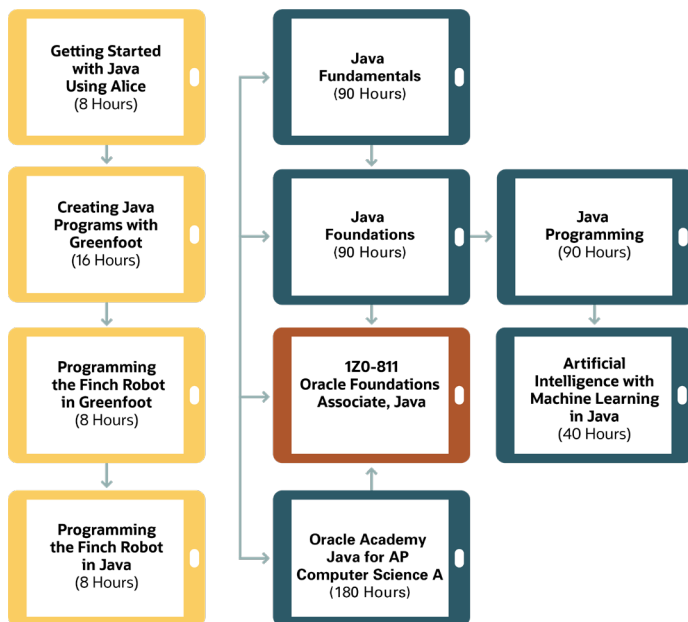
### ORACLE ACADEMY CURRICULUM

Oracle Academy modular curriculum is created by educators, for educators, to enable academic institutions to offer technology education course pathways spanning from one semester to three years. Educators can implement Oracle Academy curriculum and resources into their courses to engage students and help them explore technology and develop knowledge and skills in programming, problem solving, collaboration, critical thinking, and innovation.

#### Java Pathway

Oracle Academy offers curriculum to develop knowledge, skills, and hands-on practice in object-oriented programming for students just getting started, as well as advanced learners. Students are introduced to object-oriented concepts, terminology and syntax; the concepts of basic Java programming; 3-D animations; 2-D games; and key technologies such as artificial intelligence, machine learning, and more.

### JAVA PATHWAY



- Workshop
- Full Curriculum
- Certification Exam
- Oracle Academy Pathway

## ORACLE ACADEMY CURRICULUM

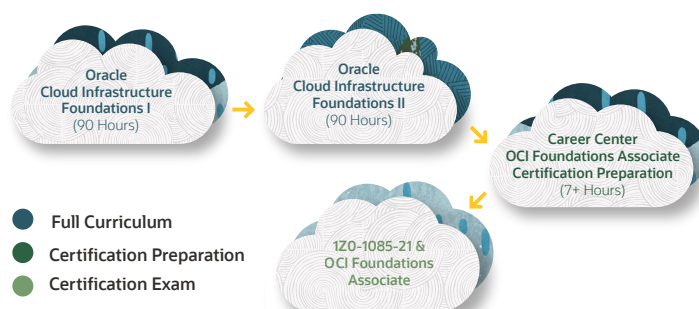
### Cloud Pathway

Oracle Academy cloud curriculum introduces students to core knowledge of Oracle Cloud Infrastructure (OCI) computing, focusing on concepts and terminology. Learners gain an understanding of the infrastructure of cloud, how it works with databases, and information on security, administration, monitoring, and management—with skills and hands-on practice in OCI.

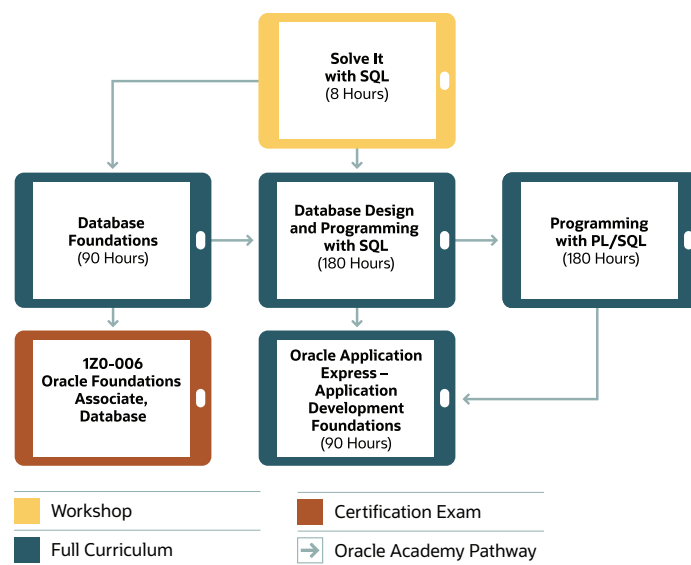
### Database Pathway

Oracle Academy database curriculum introduces students to relational database concepts and terminology using Oracle APEX cloud-enabled practice environments and Oracle SQL Developer Data Modeler to provide practical, hands-on learning. Students create and work with projects that challenge them to design, implement, and demonstrate a database solution for a business or organization, learning about data modeling concepts, Structured Query Language (SQL), and PL/SQL—the Oracle procedural extension language for SQL—to design and interact with a relational database and manipulate data. They analyze complex business scenarios, design and create data models, create databases using SQL, extend and automate SQL using PL/SQL, and design and build database-driven web applications using Oracle APEX.

## CLOUD PATHWAY



## DATABASE PATHWAY



## STANDARDS

So that academic institutions can incorporate Oracle Academy curriculum into their courses, we continuously work with ministries of education, organizations, and standards bodies to map and align the curriculum to relevant global standards.

### Computer Science Teachers Association (CSTA)

Oracle Academy's Java courses align to the CSTA K–12 Computer Science Standards, which are recognized internationally.

Oracle Academy, Oracle's global philanthropic educational program, is open to educators around the world to advance technology education, skills, innovation, and diversity and inclusion. We offer academic institutions and their educators free teaching and learning resources—including curriculum, cloud, software, and professional development—that help them prepare students with knowledge, hands-on practice, and career-relevant skills.

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

Learn more about Oracle Academy learning pathways at [academy.oracle.com/curriculum](https://academy.oracle.com/curriculum)

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