



Learning Pathways

Educators need rigorous, robust, and engaging technology 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.

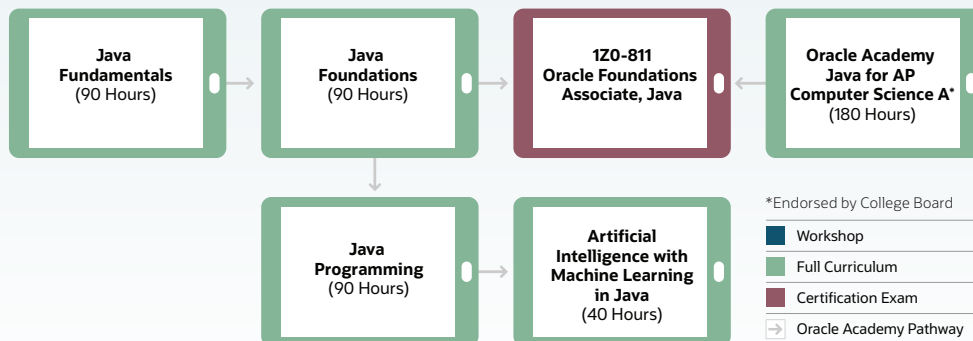
Oracle Academy modular curriculum is created by educators, for educators, to enable academic institutions to offer technology education course pathways spanning from one semester to three years.

Java Pathway

Oracle Academy offers curriculum to develop knowledge, skills, and hands-on practice in object-oriented programming for students from beginner to advanced. Students learn concepts, terminology and syntax; Java programming; 3-D animations; 2-D games; and key technologies such as artificial intelligence, machine learning, and more.

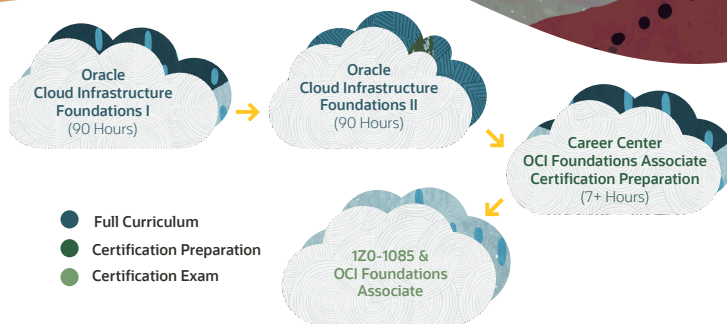


Full Curriculum Starting Point



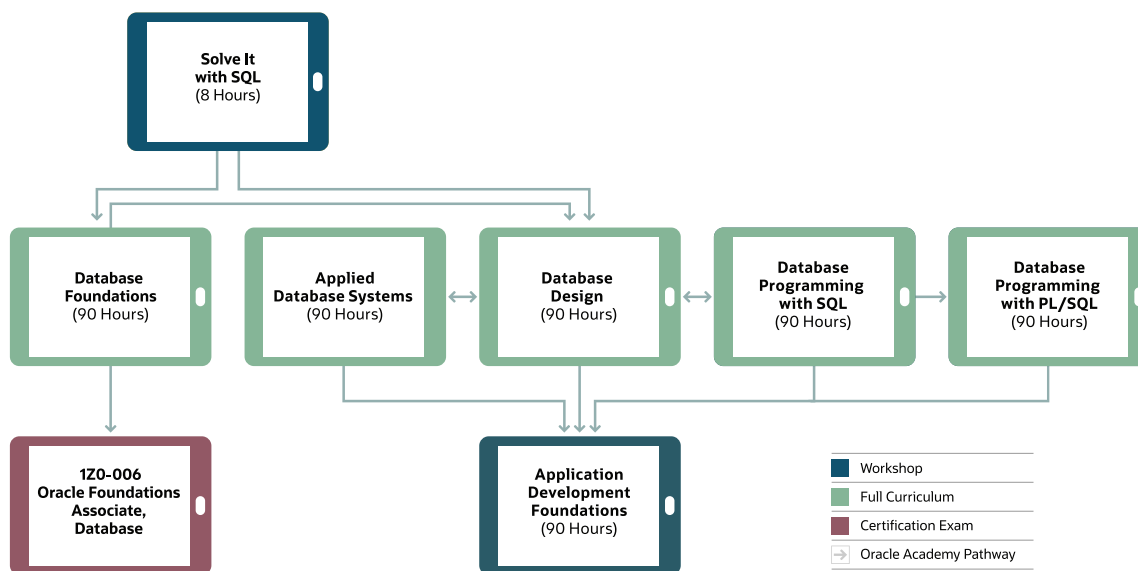
Cloud Pathway

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



Database Pathway

Oracle Academy database curriculum introduces students to practical, hands-on learning in applied database systems, relational database concepts, data modeling concepts, and terminology, using Oracle Autonomous Database, Oracle APEX cloud-enabled practice environments, SQL (structured query language) and PL/SQL, the Oracle procedural extension language for SQL, to design and interact with relational databases and manipulate data. Students are challenged to design, implement, and demonstrate database solutions for organizations. 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 APEX and Oracle Database 23ai.



Standards and Frameworks

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 curriculum to global standards.

- **Aligned to CSTA K–12 Computer Science Standards, recognized internationally:** Java Fundamentals | Java Programming
- **Aligned to AP Computer Science A course framework and endorsed by the College Board:** Oracle Academy Java for Computer Science A.
- Leveling is performed to meet national/international qualifications frameworks, such as Scottish Credit Qualifications Framework (SCQF) or European Qualifications Framework (EQF).

Oracle Academy, Oracle's global philanthropic educational program, is open to academic institutions and their educators to help advance student technology education, skills, innovation, and inclusion. We offer free teaching and learning resources — including curriculum, cloud, software, and more — that help develop key 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

