

# Oracle Academy: Advancing Computing Education Globally

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## Safe harbor statement

**The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.**

# About Oracle Academy: Mission

Oracle Academy continues **Oracle's long-standing commitment to education.**

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.

<https://academy.oracle.com/en/membership-member-institutions.html>

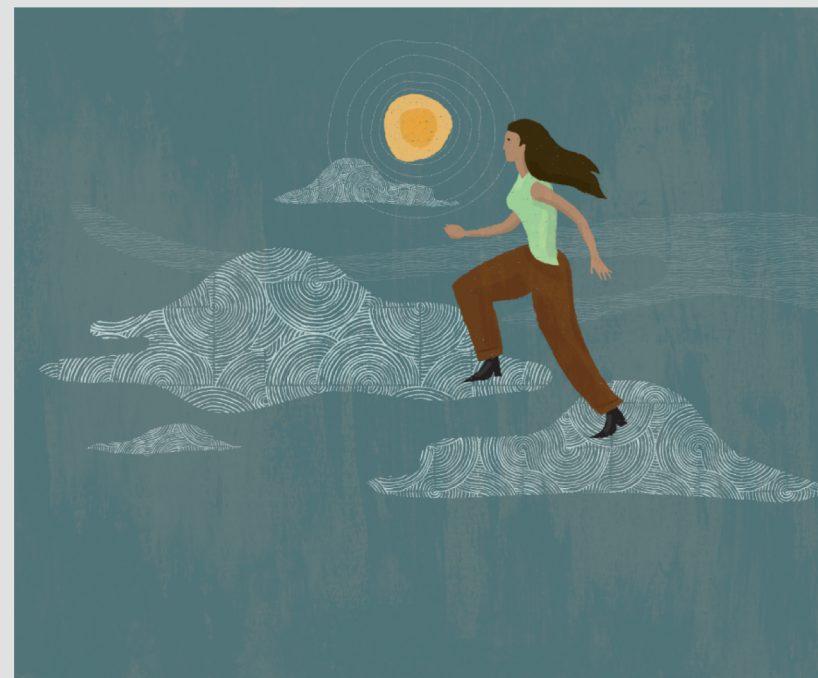


# About Oracle Academy: Free Resources

Oracle Academy **offers free resources to teach and learn computer science**, including curriculum, learning resources, Oracle cloud technologies, software, support, and professional certification resources.

With Oracle Academy, faculty and their students receive hands-on experience with the latest technologies, helping make them **college and career ready** in the era of cloud computing, artificial intelligence, machine learning, data science, the Internet of Things, and beyond.

**We believe everyone should have the skills and opportunities to achieve their dreams.**





# Why Invest in Computing Education with Oracle Academy?

## Key Impact: Career-ready workforce with competitive edge

### GOVERNMENTS

- Industry-literate students
- Offer innovation in learning
- Better positioned for economic growth

### BUSINESSES

- Students enter job market already familiar with latest technologies
- Industry-certified students
- Qualified employees to supply workforce IT needs

### INSTITUTIONS

- Free and philanthropic
- Access to Java and database curriculum and resources, technology, and software
- Created by educators for educators
- Credit leveling and mapping
- Computing- and industry-literate students

### STUDENTS

- College- and career-ready
- Path to industry certifications for a competitive edge in the job market
- Hands-on experience in current technologies

# Oracle Academy Membership



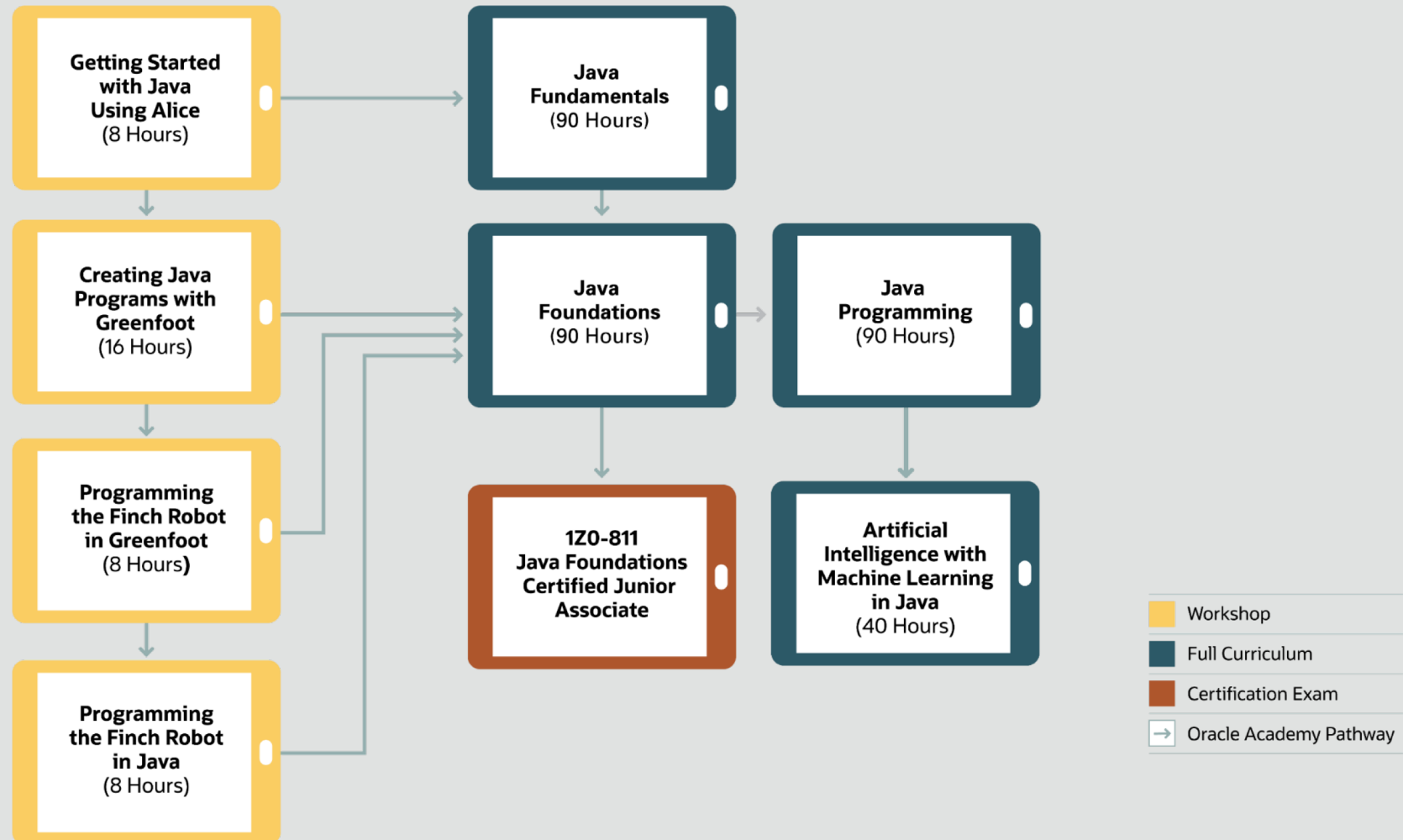
## Institutional Membership Benefits

- ✓ Access to Oracle Cloud Free Tier and Autonomous Database through the Oracle Academy Cloud Program
- ✓ Complete academic curriculum and Education Bytes in database and Java, including all classroom resources and teaching materials, assessments, and reporting tools
- ✓ For teaching and not-for-profit academic research use, access to Oracle technology and software licenses, open source software, and Java development environments
- ✓ Access to educator and student Oracle Application Express (APEX) workspaces for hands-on database practice
- ✓ Free educator professional development training from Oracle Academy and Oracle experts
- ✓ 50% off Oracle Press Books and ebooks, written by experts on a wealth of technology topics
- ✓ Oracle University training and certification resources and exam discounts



# Free Curriculum and Technology Resources

## Java Pathway



# Free Curriculum and Technology Resources



## Java Courses

### 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**





# Oracle Academy Java Workshops



**JUG members can join Oracle Academy as a individual member and access:**

- **Getting Started with Java Using Alice** is designed for students with little or no programming experience and teaches basic Java programming concepts through developing 3-D animations in Alice 3.1. **8 Hours**
- **Creating Java Programs with Greenfoot** engages students who understand basic programming concepts to create 2-D games using Java. **16 Hours**
- **Programming the Finch Robot in Greenfoot** encourages students who have completed Creating Java Programs with Greenfoot to program an interface that makes the Finch Robot interactive using its light, proximity, and temperature sensors using Java in Greenfoot. **8 Hours**
- **Programming the Finch Robot in Java** encourages students who have completed the Creating Java Programs with Greenfoot and Programming the Finch Robot in Greenfoot to program an interface that makes the Finch Robot interactive using its light, proximity, and temperature sensors using Java. **8 Hours**
- **Education Bytes: without answers or solutions**



# Free Curriculum and Technology Resources

## Workshop Language Availability

Workshop	English	Arabic	Chinese	French	Indonesian	Japanese	Portuguese (Brazil)	Romanian	Spanish
Getting Started with Java Using Alice – 8 hours	✓	✓	✓	✓	✓	✓	✓	✓	✓
Creating Java Programs with Greenfoot – 16 hours	✓	✓	✓	✓	✓	✓	✓	✓	✓
Programming the Finch Robot with Greenfoot – 8 hours	✓				✓				
Programming the Finch Robot with Java – 8 hours	✓								
Solve It with SQL – 8 hours	✓	✓	✓	✓		✓	✓	✓	✓

# Free Curriculum and Technology Resources

## Oracle Academy Education Bytes



**Hands-On Labs**—Step-by-step instruction-based labs designed to be facilitated by an educator or self-studied by an individual learner. Some may require prior knowledge or completion of curriculum.



**Projects and Challenges**—Stand-alone projects that can be used independently of, during, or at the end of an Oracle Academy workshop or course.



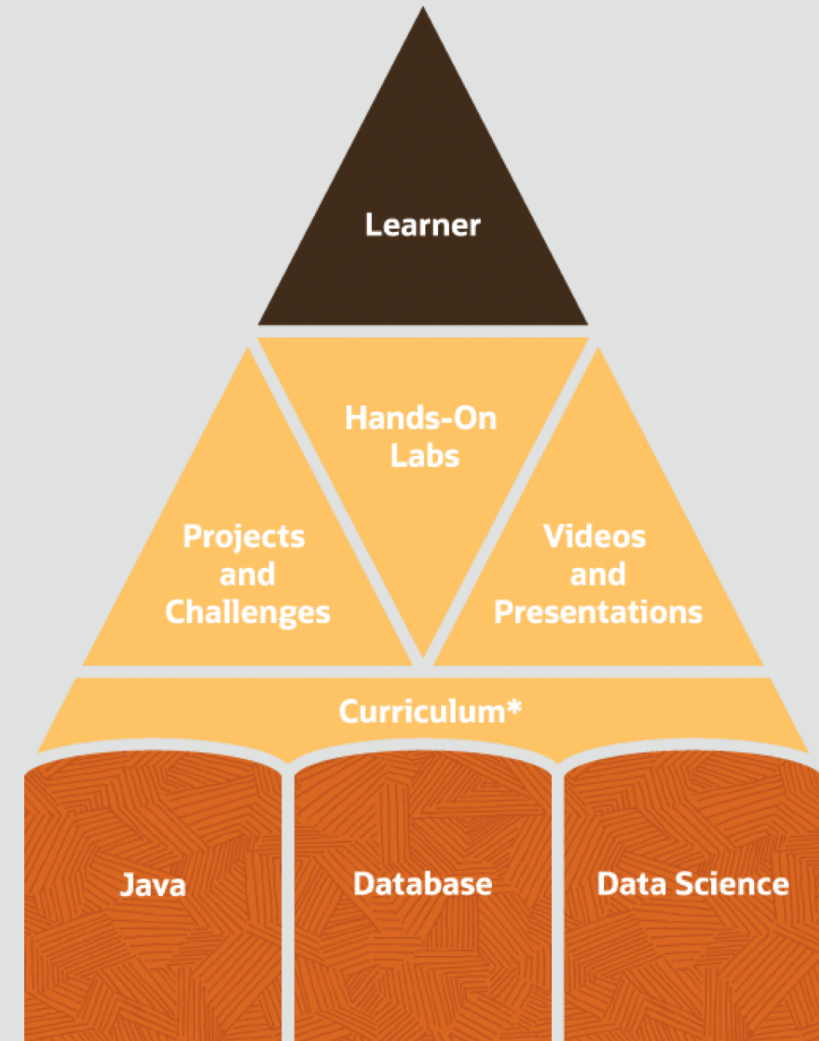
**Videos and Presentations**—These can be used within the classroom or viewed by individual learners at their own pace to learn more about computer science topics.

Explore Oracle Academy Education Bytes at [academy.oracle.com/curriculum](https://academy.oracle.com/curriculum).

# Free Curriculum and Technology Resources

## Oracle Academy Education Bytes

- Short, flexible learning modules in programming, database, data science, and big data that teach new concepts and enhance existing knowledge and skills, problem solving, creativity, and learning retention.
- Can be used alone or to enhance Oracle Academy curriculum.
- Offers content in three formats: **Hands-on labs, projects and challenges, and videos and presentations.**



\*Curriculum is available to Oracle Academy Institutional members only.



# Curriculum Mapping

## Framework Leveling

- Leveling is performed to meet national/international qualifications frameworks, such as Scottish Qualifications Framework (SCQF) or European Qualifications Framework (EQF)
- Mapping/leveling is performed to meet a National/Local unit of learning to be delivered as part of a qualification, such as Australian National Curriculum, South Africa Basic Education, Scottish Qualifications Agency (SQA), or UPR Banyan
- Example: Oracle Academy worked with the SQA to identify areas of synergy. Working with an Oracle Academy member in a local college with knowledge of both OA and SQA curriculum, a mapping document was created and published by SQA.

# Oracle Academy Member Hub

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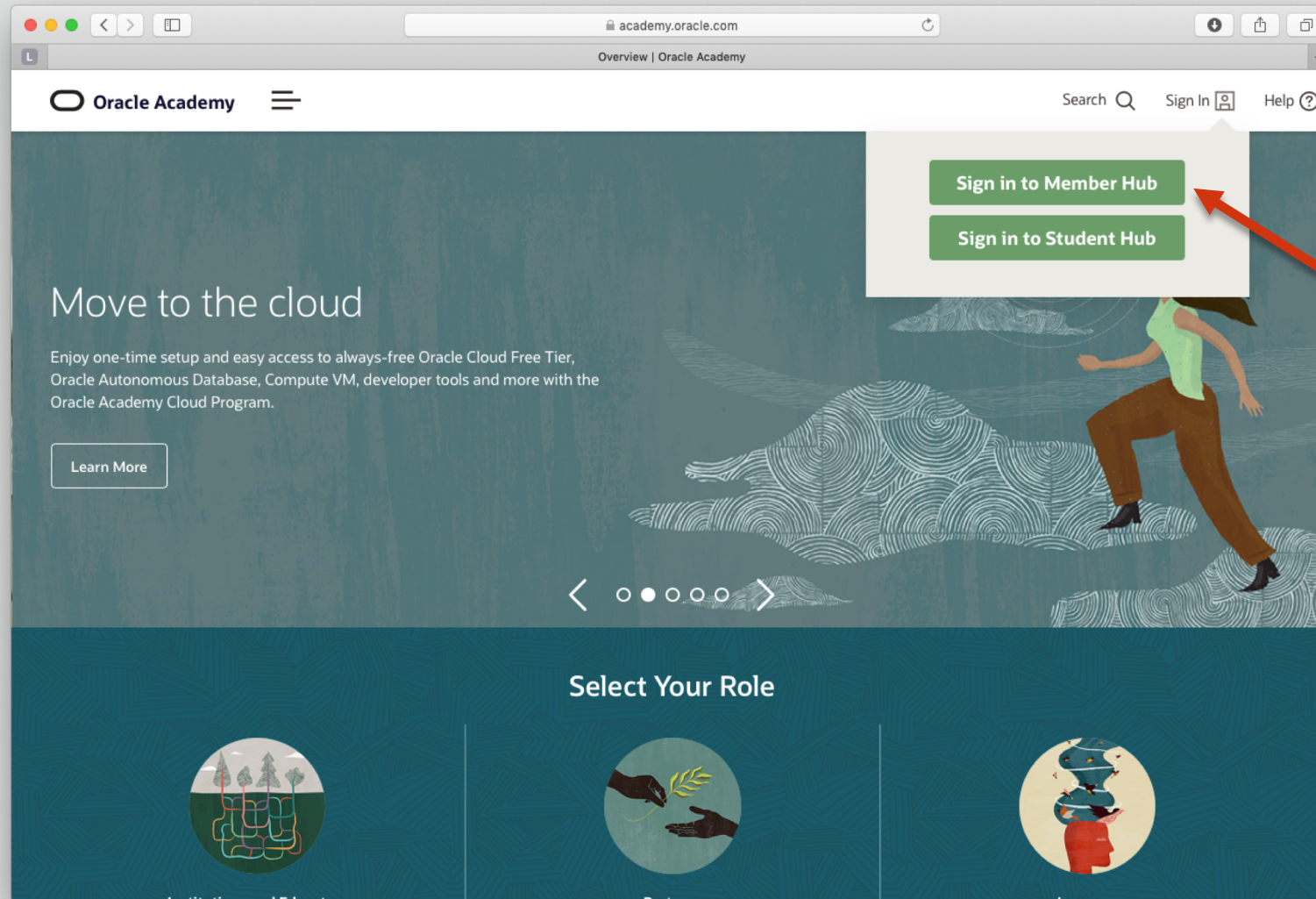
## State-of-the-art, member-focused teaching and learning portal offers:

- All teaching content in one location, including:
  - Curriculum (Quizzes and Exams)
  - Workshops and labs
  - Oracle Academy Education Bytes
  - Oracle Academy Cloud Program, Oracle APEX, NetSuite, and more
- Customizable learning paths and student administration
- Oracle technology and applications software and open source software and environments
- Access to all member benefits, discounts, and resources
- Professional continuing education training and learning paths





# Accessing the Oracle Academy Member Hub





# Oracle Academy Member Hub

ORACLE  
Academy

## Workshops in a Box

[Home](#) [Catalog](#) [My Learning](#) [Reporting](#) [Resources](#) [Admin](#)

### Browse Catalog

Curriculum Type

clear

☐ Exam

☐ Instructor Resources - Academy Bytes

☐ Instructor Resources - All Courses

☐ Instructor Resources - Full Course

☐ Instructor Resources - Workshop in a Box

☐ Learning Path - Academy Bytes

☐ Learning Path - Cumulative Exam

☐ Learning Path - Full Course

☐ Learning Path - Professional Development (CPD)

☐ Learning Path - Resources

☐ Learning Path - Staff Training

☒ Learning Path - Workshop in a Box

☐ Online

☐ Video

Advanced

Search

4 Results **Java** + Filter(1) clear all

Sort by Course Name

Workshops in a Box - Finch Greenfoot

Learning Path - Workshop in a Box

**WIB Workshop - Programming the Finch Robot in Greenfoot - English**

Added: 10-Apr-20

Enroll

Workshops in a Box - Finch Java

Learning Path - Workshop in a Box

**WIB Workshop - Programming the Finch Robot in Java - English**

Added: 10-Apr-20

Enroll

Workshops in a Box - Alice

Learning Path - Workshop in a Box

**WIB Workshop - Getting Started with Java Using Alice - English**

Added: 11-Mar-20

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Workshops in a Box - Greenfoot

Learning Path - Workshop in a Box

**WIB Workshop - Creating Java Programs with Greenfoot - English**

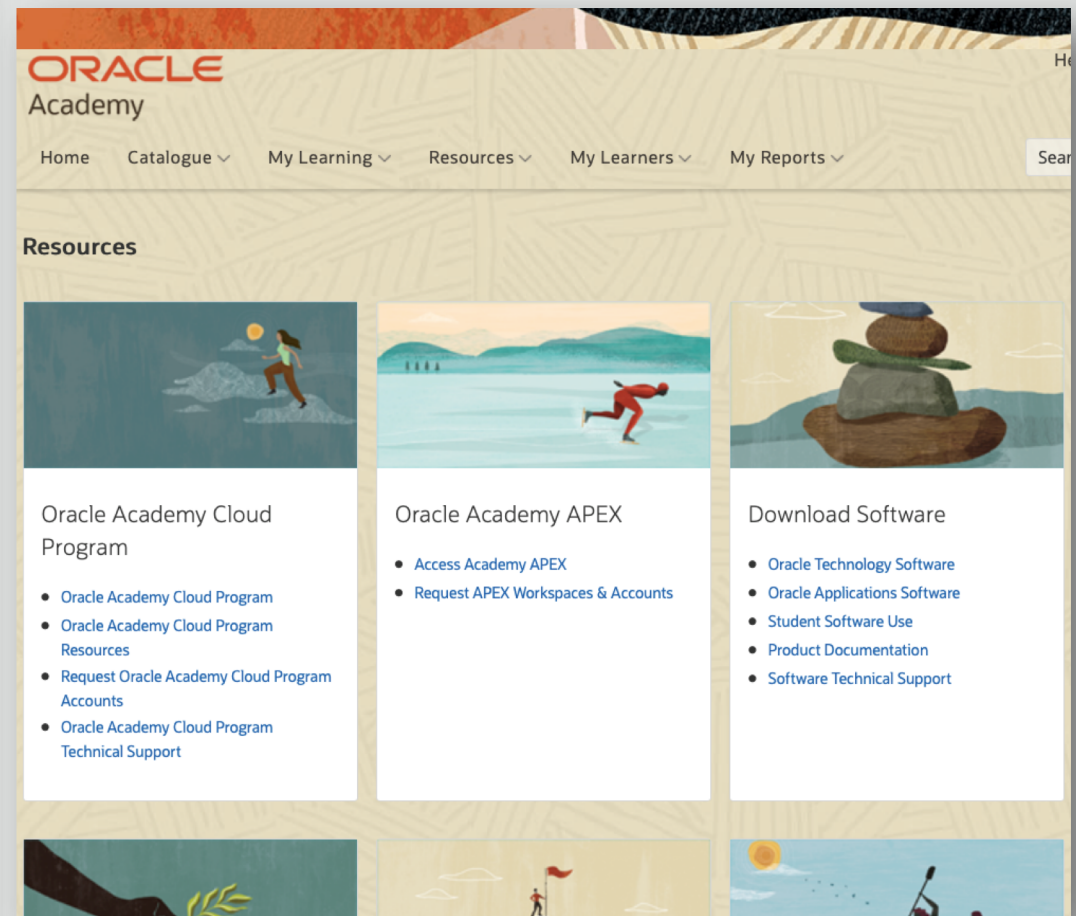
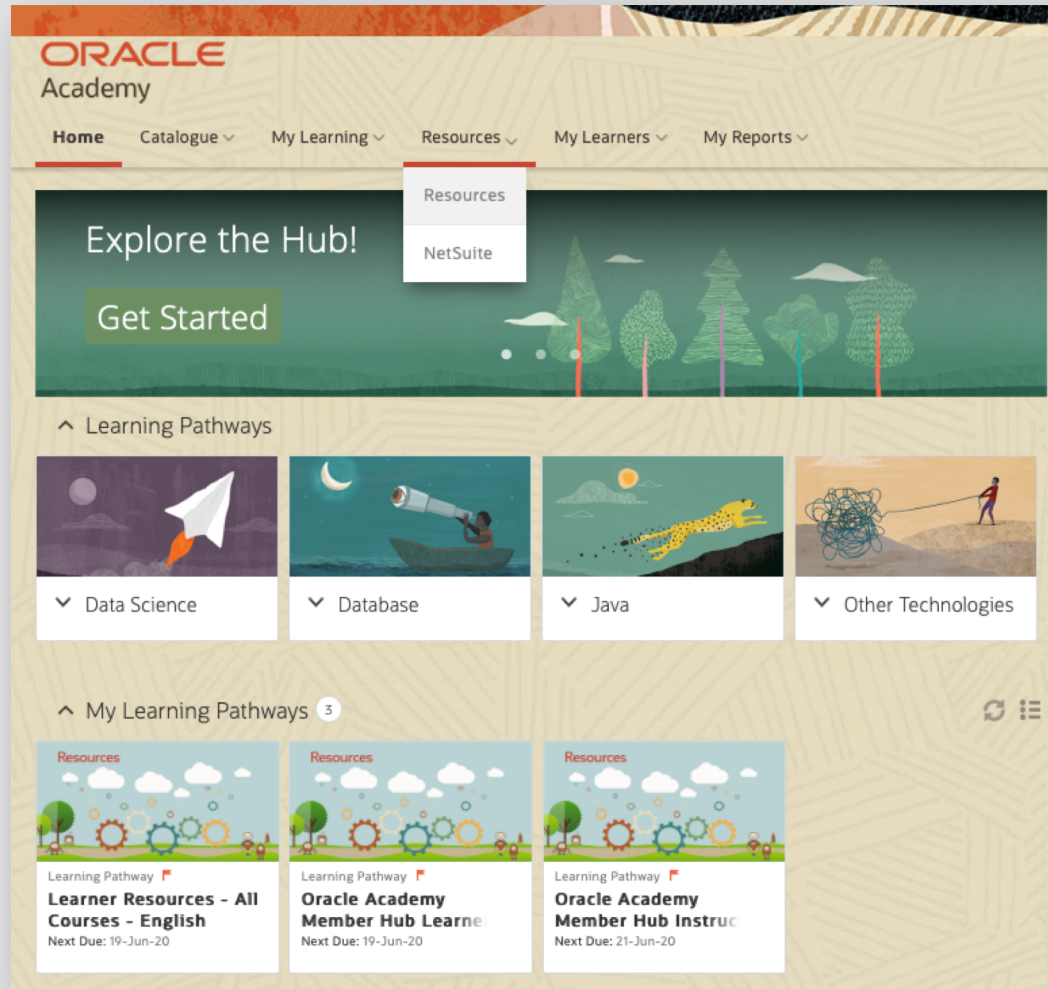
Added: 11-Mar-20

Enroll

# Oracle Academy Member Hub



## Accessing benefits and resources

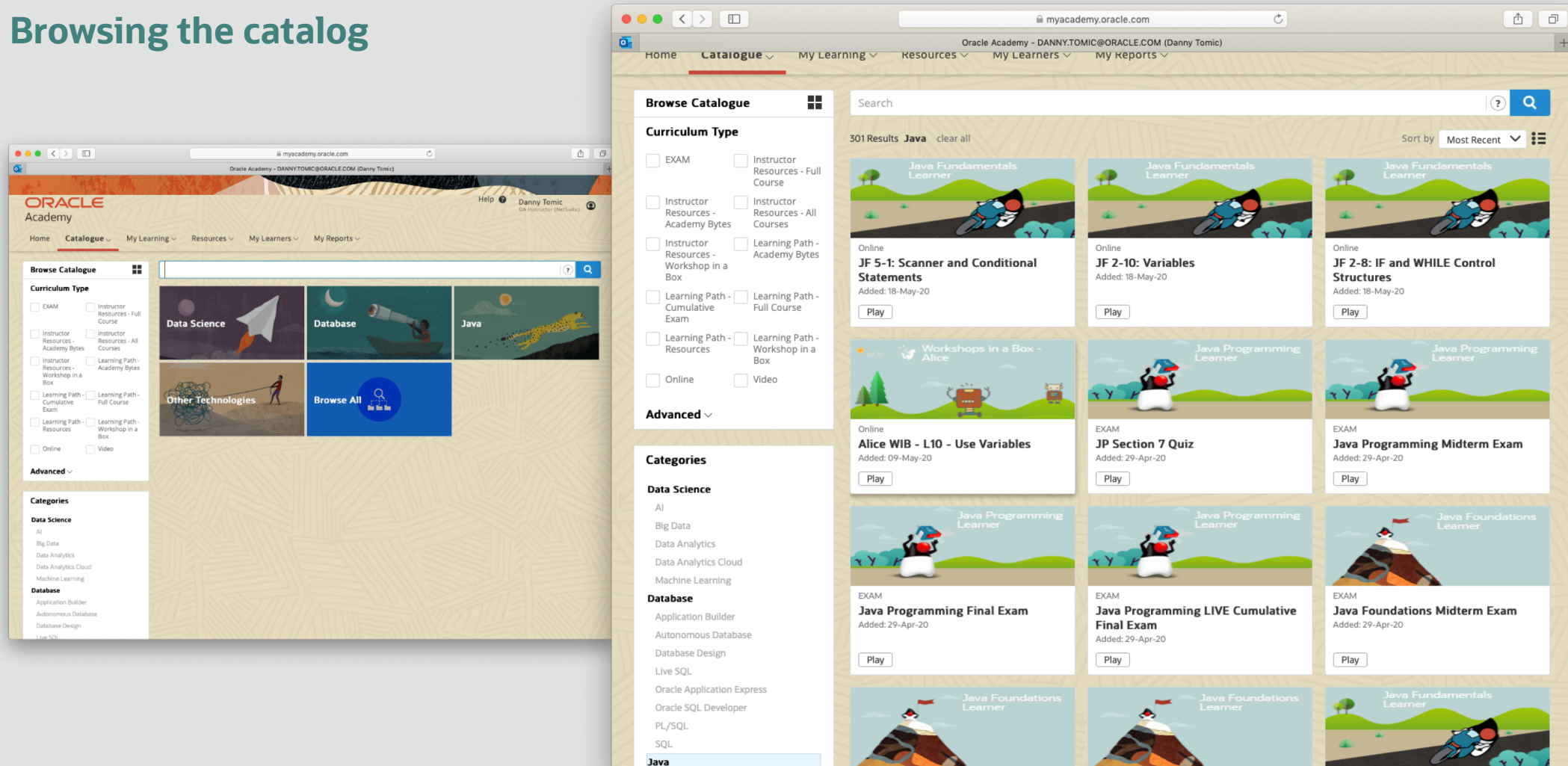




# Oracle Academy Member Hub



## Browsing the catalog



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