



Università degli Studi di Napoli Parthenope  
**iOS Foundation Program**  
in partnership with Apple



## CERTIFICATE OF ATTENDANCE

This is to certify that

**Lorenzo Guerrini**

born on 21/09/1999 in Villaricca (NA) attended the following iOS Foundation Program four week

course/s organized by the University of Naples Parthenope in partnership with Apple International on

***watchOS Advanced + tvOS Advanced*** from 13/01/2025 to 19/03/2025

with the attached curriculum/a.

iOS Foundation Program Coordinator

Prof. Angelo Ciaramella



# Advanced Course Syllabus

8 weeks (160 hours)

## General Information

### Description

The course introduces students to watchOS and tvOS devices, and how to design apps for these two different devices, from a technical and also UI/UX perspective.

Specific lessons are organized on UI/UX topics related to watchOS and tvOS, and also a dedicated advanced lesson on the business, with topics on Gamification, App Store Business Model, App Store Optimization, Marketing Plan

After 4 weeks of learning students are free to select one of these devices (also iOS) for their final project. Group formation is done on the some way of basic course, on passion shopping / preferred device.

## Course Schedule

Week	Topic	Challenges
Week 1	watchOS, tvOS introduction Basics Architecture Controls Layout  advanced iOS topics : Codable, Extensions, Properties and Property Observers, etc.	CBL activities on: - Discover watchOS device - Discover tvOS device
Week 2	watch OS Tables Navigation CoreMotion Storing Data Connectivity SpriteKit for WatchOS (focused on UI/UX)	Mini code challenges on exploring watchOS features

Week	Topic	Challenges
Week 3	tvOS Core Animation AVFoundation SpriteKit for tvOS (focused on UI/UX) AVKit CoreData MapKit CoreLocation HomeKit Multipeer Connectivity	Mini code challenges on exploring tvOS features
Week 4	<b>Machine Learning</b>  Core ML TuriCreate CreateML Activity Classifier Image Classifier Sentiment Analysis Sound Classifier  (on demand) Advanced Kit. HomeKit, Photo, Replay Kit, SceneKit, ARKit	Mini code challenges on applying ML to small specific problems.  Exploring advanced kits
Week 5	Coding	
Week 6	Coding	Mid Term Review
Week 7	Coding	Presentation review
Week 8	Coding	Final presentation