American Public University System
American Military University | American Public University

ENTD323

Course Summary

Course : ENTD323 **Title :**
Length of Course : 8 **Faculty :**
Prerequisites : N/A **Credit Hours :**

Description

Course Description:

Course Scope:

This course studies application development for various mobile devices and covers how to enhance the use of mobile devices with uniquely designed application software. The course expands on concepts introduced in other mobile application design and development courses and allow students to design and develop a prototype app. The course covers scenario-based exercises and requires students to use assigned tools to write, test, and deploy mobile software applications associated with applicable operating systems. Before the class begins, students must install the latest XCode, available from the App Store. Students must have access to an Apple computer with XCode installed to successfully complete this course. Students also need intermediate-level programming experiences and/or knowledge, including previous programming experiences using an object-oriented C-based language such as C#, Java, Python, or C++. (Prerequisite: ENTD313)

Objectives

The student will be able to apply programming skills to design and develop mobile application software for successful use of the iPhone and iPad mobile devices.

After successful completion of ENTD323 students will have:

CO1: Research various types of mobile application software and the iOS (operating system) for iPhone and iPad mobile devices.

CO2: Review key tools used to design, develop, write, test and deploy applications into the iOS platform environment.

CO3: Build a mobile application for iPhone and iPad mobile devices using assigned programming language.

CO4: Use assigned tools to write, test and deploy applications into the iOS platform environment.

CO5: Explain the benefits of mobile application software use in iPhone and iPad mobile technology.

CO6: Collaborate on relevant ideas and concepts in a substantive manner, showing a clear understanding.

Outline

Week 1: Getting Started

Learning Outcomes

- **CO1: Research various types of mobile application software and the iOS (operating system) for iPhone and iPad mobile devices.**
- **CO2: Review key tools used to design, develop, write, test and deploy applications into the iOS platform environment.**
- **CO6: Collaborate on relevant ideas and concepts in a substantive manner, showing a clear understanding.**

Required Readings

Review the assigned selections and support materials for this course in the lessons area.

Assignments

- **Week 1 Discussion**

Recommended Optional Reading
Recommended Media

Week 2: Learn Swift on Mac

Learning Outcomes

- **CO2: Review key tools used to design, develop, write, test and deploy applications into the iOS platform environment.**
- **CO3: Build a mobile application for iPhone and iPad mobile devices using assigned programming language.**

Required Readings

Review the assigned selections and support materials for this course in the lessons area.

Assignments

- **Week 2 Discussion**
- **Week 2 Assignment**

Recommended Optional Reading
Recommended Media

Week 3: Views, Outlets and Actions

Learning Outcomes

- **CO2: Review key tools used to design, develop, write, test and deploy applications into the iOS platform environment.**
- **CO3: Build a mobile application for iPhone and iPad mobile devices using assigned programming language.**

Required Readings

Review the assigned selections and support materials for this course in the lessons area.

Assignments

- **Week 3 Discussion**
- **Week 3 Assignment**

Recommended Optional Reading
Recommended Media

Week 4: Views

Learning Outcomes

- **CO1: Research various types of mobile application software and the iOS (operating system) for iPhone and iPad mobile device.**
- **CO4: Use assigned tools to write, test and deploy applications into the iOS platform environment.**
- **CO6: Collaborate on relevant ideas and concepts in a substantive manner, showing a clear understanding.**

Required Readings

Review the assigned selections and support materials for this course in the lessons area.

Assignments

- **Week 4 Discussion**
- **Week 4 Assignment**

Recommended Optional Reading
Recommended Media

Week 5: View Controllers

Learning Outcomes

- **CO2: Review key tools used to design, develop, write, test and deploy applications into the iOS platform environment.**
- **CO3: Build a mobile application for iPhone and iPad mobile devices using assigned programming language.**

Required Readings

Review the assigned selections and support materials for this course in the lessons area.

Assignments

- **Week 5 Discussion**
- **Week 5 Assignment**

Recommended Optional Reading
Recommended Media

Week 6: Ipad Considerations and App Settings

Learning Outcomes

- **CO3: Build a mobile application for iPhone and iPad mobile devices using assigned programming language.**
- **CO5: Explain the benefits of mobile application software use in iPhone and iPad mobile technology.**
- **CO6: Collaborate on relevant ideas and concepts in a substantive manner, showing a clear understanding.**

Required Readings

Review the assigned selections and support materials for this course in the lessons area.

Assignments

- **Week 6 Discussion**
- **Week 6 Assignment**

Recommended Optional Reading
Recommended Media

Week 7: Basic Data Persistence, Documents, and iCloud

Learning Outcomes

- **CO5: Explain the benefits of mobile application software use in iPhone and iPad mobile technology.**
- **CO6: Collaborate on relevant ideas and concepts in a substantive manner, showing a clear understanding.**

Required Readings

Review the assigned selections and support materials for this course in the lessons area.

Assignments

- **Week 7 Discussion**
- **Week 7 Assignment**

Recommended Optional Reading
Recommended Media

Week 8: Life Cycle of a Project

Learning Outcomes

- **CO4: Use assigned tools to write, test and deploy applications into the iOS platform environment.**
- **CO6: Collaborate on relevant ideas and concepts in a substantive manner, showing a clear understanding.**

Required Readings

Review the assigned selections and support materials for this course in the lessons area.

Assignments

- **Week 8 Discussion**
- **Week 8 Final Project**

Recommended Optional Reading
Recommended Media

Evaluation

Grading will be based on the following:

- Discussions - 27%
- Assignments - 48%
- Final Project - 25%

Grading:

Name	Grade %
Discussions	27.00%
Week 1: First night check-in bios background and history	6.75%
Week 4: Model-View-Controller Pattern	6.75%
Week 6: How has the iPad Changed the Mobile Environment.	6.75%
Week 7: The Next Course Enrollment	6.75%
Assignments	48.00%
Week 2 Assignment	8.00%
Week 3 Assignment	8.00%
Week 4 Assignment	8.00%
Week 5 Assignment	8.00%
Week 6 Assignment	8.00%
Week 7 Assignment	8.00%
Final Project	25.00%
Week 8 Final Project	25.00%

Materials

Book Title: iOS 15 Programming Fundamentals with Swift by Matt Neuburg (O'Reilly),

E-book available in the APUS Online Library
ISBN: 978-1-098-11850-1
Publication Info: O'Reilly Media, Inc.
Author: Matt Neuburg

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https://learning-oreilly-com.ezproxy1.apus.edu/library/view/ios-15-programming/9781098118495/

Book Title: Programming iOS 14 by Matt Neuburg (O'Reilly),

E-book available in the APUS Online Library
ISBN: 978-1-492-09217-9
Publication Info: O'Reilly Media, Inc.
Author: Matt Neuburg

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https://learning-oreilly-com.ezproxy1.apus.edu/library/view/programming-ios-14/9781492092162/

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http://apus.libguides.com/er.php

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Course Guidelines

Citation and Reference Style

Attention Please: Students will follow the APA Format as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the APA Format, 7th edition.

Tutoring

Tutor.com offers online homework help and learning resources by connecting students to certified tutors for one-on-one help. AMU and APU students are eligible for 10 free hours* of tutoring provided by APUS. Tutors are available 24/7 unless otherwise noted. Tutor.com also has a SkillCenter Resource Library offering educational resources, worksheets, videos, websites and career help. Accessing these resources does not count against tutoring hours and is also available 24/7. Please visit the APUS Library and search for 'Tutor' to create an account.

Late Assignments

Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. The due date for each assignment is listed under each Assignment.
As a working adult I know your time is limited and often out of your control. Faculty may be more flexible if they know ahead of time of any potential late assignments.

Turn It In

Faculty may require assignments be get evaluated by Turnitin. Turnitin will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it for a grade. This is automatically processed through the Assignments area of the course.
Academic Dishonesty

Academic Dishonesty incorporates more than plagiarism, which is using the work of others without citation. Academic dishonesty includes any use of content purchased or retrieved from web services such as CourseHero.com. Additionally, allowing your work to be placed on such web services is academic dishonesty, as it is enabling the dishonesty of others. The copy and pasting of content from any web page, without citation as a direct quote, is academic dishonesty. When in doubt, do not copy/paste, and always cite.

Submission Guidelines

Some assignments may have very specific requirements for formatting (such as font, margins, etc) and submission file type (such as .docx, .pdf, etc) See the assignment instructions for details. In general, standard file types such as those associated with Microsoft Office are preferred, unless otherwise specified.
Disclaimer Statement

Course content may vary from the outline to meet the needs of this particular group.

Communicating on the Discussion

Discussions are the heart of the interaction in this course. The more engaged and lively the exchanges, the more interesting and fun the course will be. Only substantive comments will receive credit. Although there is a final posting time after which the instructor will grade comments, it is not sufficient to wait until the last day to contribute your comments/questions on the forum. The purpose of the discussion is to actively participate in an on-going discussion about the assigned content.
"Substantive" means comments that contribute something new and hopefully important to the discussion. Thus a message that simply says "I agree" is not substantive. A substantive comment contributes a new idea or perspective, a good follow-up question to a point made, offers a response to a question, provides an example or illustration of a key point, points out an inconsistency in an argument, etc.

As a class, if we run into conflicting view points, we must respect each individual's own opinion. Hateful and hurtful comments towards other individuals, students, groups, peoples, and/or societies will not be tolerated.

Identity Verification & Live Proctoring

Faculty may require students to provide proof of identity when submitting assignments or completing assessments in this course. Verification may be in the form of a photograph and/or video of the student's face together with a valid photo ID, depending on the assignment format.
Faculty may require live proctoring when completing assessments in this course. Proctoring may include identity verification and continuous monitoring of the student by webcam and microphone during testing.

Communications

Student Communication

To reach the instructor, please communicate through the MyClassroom email function accessible from the Classlist of the Course Tools menu, where the instructor and students email addresses are listed, or via the Office 365 tool on the Course homepage. Contact your faculty via your mycampus email.

- In emails to instructors, it's important to note the specific course in which you are enrolled. The name of the course is at the top center of all pages.
- Students and instructors communicate in Discussion posts and other learning activities.
- All interactions should follow APUS guidelines, as noted in the Student Handbook, and maintain a professional, courteous tone.
- Students should review writing for spelling and grammar.
- Tips on Using the Office 365 Email Tool

Instructor Communication

The instructor will post announcements on communications preferences involving email and Instant Messaging and any changes in the class schedule or activities. Contact your faculty via your mycampus email.

- Instructors will periodically post information on the expectations of students and will provide feedback on assignments, Discussion posts, quizzes, and exams.
- Instructors will generally acknowledge student communications within 24 hours and respond within 48 hours, except in unusual circumstances (e.g., illness).
- The APUS standard for grading of all assessments (assignments, Discussions, quizzes, exams) is five days or fewer from the due date.
- Final course grades are submitted by faculty no later than seven days after the end date of the course or the end of the extension period.

University Policies

Consult the Student Handbook for processes and policies at APUS. Notable policies:

- Drop/Withdrawal Policy
- Extension Requests
- Academic Probation
- Appeals
- Academic Dishonesty / Plagiarism
- Disability Accommodations
- Student Deadlines
- Video Conference Policy

Mission

The mission of American Public University System is to provide high quality higher education with emphasis on educating the nation's military and public service communities by offering respected, relevant, accessible, affordable, and student-focused online programs that prepare students for service and leadership in a diverse, global society.

Minimum Technology Requirements

- Please consult the catalog for the minimum hardware and software required for undergraduate and graduate courses.
- Although students are encouraged to use the Pulse mobile app with any course, please note that not all course work can be completed via a mobile device.

Disclaimers

- Please note that course content – and, thus, the syllabus – may change between when a student registers for a course and when the course starts.
- Course content may vary from the syllabus' schedule to meet the needs of a particular group.