



Course Number and Title: CIS 282 – Mobile App Development

Campus Location:

Georgetown, Dover, Wilmington

Effective Date:

2018-51

Prerequisite:

CIS 209 or CSC 164

Co-Requisites:

none

Course Credits and Hours:

4.00 credits

3.00 lecture hours/week

2.00 lab hours/week

Course Description:

This course introduces mobile programming software. Students develop apps to be used on mobile devices.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:

None

Schedule Type:

Classroom Course

Online Course

Disclaimer:

None

Core Course Performance Objectives (CCPOs):

1. Explain the functions of mobile operating systems. (CCC 1, 2, 6; PGC 1)
2. Construct basic programs using an integrated development environment (IDE). (CCC 2, 6; PGC 1, 2)
3. Develop mobile apps. (CCC 2, 6; PGC 2, 4)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Performance Objectives (MPOs):

Upon completion of this course, the student will:

1. Explain the functions of mobile operating systems.
 1. Describe the components of a mobile operating system.
 2. Distinguish among different mobile operating systems.
 3. Identify how apps interact with an operating system.
2. Construct basic programs using an integrated development environment (IDE).
 1. Set up and configure an IDE.
 2. Compile a basic program for a mobile device.
 3. Deploy a basic program to an emulator or mobile device.
3. Develop mobile apps.
 1. Formulate a plan to build a mobile app.
 2. Create an algorithm for a mobile app.
 3. Compile, debug, and deploy an app to an emulator or mobile device.

Evaluation Criteria/Policies:

Students must demonstrate proficiency on all CCPOs at a minimal 75 percent level to successfully complete the course. The grade will be determined using the Delaware Tech grading system:

92	-	100	=	A
83	-	91	=	B
75	-	82	=	C
0	-	74	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):

1. Install, configure, and secure computer applications and operating systems.
2. Design, write, and debug computer programs.
3. Design and integrate databases in computer programs
4. Analyze and design complex computer applications to solve business problems.
5. Integrate the principles of the Internet into web development.
6. Incorporate the principles of networking and information security in computer application development.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.