

Programming Mobile Devices I (CSC 262, CRN 3591)

Instructor Mirco Speretta

Phone (203) 285 2629

Office S301K

E-mail msperetta@gatewayct.edu

Office Hours Monday 10:00AM – 12:00PM or by appointment

Days and Time:

Tuesday & Thursday 10:40 AM – 12:00 PM

Room:

Online

Resources and Supplies:

- Typescript: <https://www.typescriptlang.org/>
- Angular: <https://angular.io/>
- Ionic framework: <https://ionicframework.com/>
- Ionic tutorial: <https://www.tutorialspoint.com/ionic/index.htm>

Description:

This class introduces students to the development of native applications for mobile devices using a cross-platform framework (i.e. Ionic). Students will prototype native applications for both iOS and Android devices.

We will review the basic practices of user experience when designing a native application.

We will then learn the basics of the technologies used by the Ionic framework (e.g .typescript, AngularJS etc.) Finally we will use various modules available in Ionic.

Goals:

- Basic understanding of the Typescript scripting language
- Understand and describe the Model View Controller software pattern
- Explore the challenges of an effective user experience for native application
- Create and debug prototypes for mobile devices

Grading:

The final grade will be based on the following components. Registration for this course means that the student agrees to fulfill the requirements for this course. Students should make every effort to take the examinations and complete the laboratory projects and the homework assignments.

If a student is absent or late, the student is responsible for getting the course notes, handouts, and any laboratory assignments missed.

Component	Weight
In class assignments	30%
Homework assignments	40%
Final Exam	20%

Class participation and attendance

10%

Class participation can be accumulated by asking and answering questions, presenting solutions. All lectures will be very interactive and I expect each of you to participate actively in class, especially when you will be working on assignments.

Regular attendance is required and expected by Gateway Community College and for this class. In case of an absence, notify me via email prior to the class. You are still responsible for any missed material and completing all work by the assigned due dates. You should contact another student in the class to get notes, assignments and any other information from the class that you missed. Unexcused absences and attending class late will result in a reduction of your grade, up to 10%.

Student Grades shall be consistent with Gateway Community College's Grading Policy. Students who are having difficulties with their course work and need assistance are strongly encouraged you to use the lab assistant that are provided.

Grading System

Gateway Community College's values for grades awarded which are used for the calculation of grades, averages and related matters are as follows:

Letter Grade	Point Ranges	Grade Point Value
A	93 - 100	4.00
A-	90 - 92	3.667
B+	87-89	3.333
B	83-86	3.000
B-	80-82	2.667
C+	77-79	2.333
C	73-76	2.000
C-	70-72	1.667
D+	67-69	1.333
D	65-66	1.000
D-	60 – 64	.667
F	0 - 59	0.000

Course Policies:

Late Tests, Assignments & Projects

Tests, assignments and projects must be turned in on time to receive full credit.

Student Conduct in Class Policy

Any acts of classroom disruption that go beyond the normal rights of students to question and discuss with instructors the educational process relative to subject content will not be tolerated, in accordance with Gateway Community College's Academic Code of Conduct as described in the Gateway Community College's Student Handbook.

Examination Policy

To prepare for examinations attend lectures and study all the material either provided or referenced in class. Most of the questions and exercises included in the assignments will be taken directly from the reading material assigned. Review all the material in preparation for the tests.

Incomplete Policy

Students will not be given an incomplete grade in the course without sound reason and documented evidence as described in the Gateway Community College's Student Handbook. In any case, for a student to receive an incomplete, he or she must be passing and must have completed a significant portion of the course.

Students with Disabilities

If you are a student with a documented disability and you believe you will need accommodations or academic adjustments for this class, it is your responsibility to contact Student Accessibility Services (SAS) at 203-285-2231; rchomicz@gatewayct.edu and/or smurphy1@gatewayct.edu. To avoid any delay in receipt of accommodations or academic adjustments, you should contact SAS as soon as possible. In response to your request, SAS may ask you to provide supporting medical documentation, diagnostic test results or professional prescriptions to evaluate your request for the accommodations or academic adjustments. SAS may also obtain its own professional determination of whether specific requested accommodations or academic adjustments are necessary. Please note that accommodations or academic adjustments cannot be provided until approved and an accommodation letter from SAS has been received by faculty and student. If you experience a temporary impairment or medical condition and it interferes with your schoolwork, call SAS at 203-285-2231; rchomicz@gatewayct.edu and/or smurphy1@gatewayct.edu.

Tentative Schedule

Week 1	Course Introduction
Week 2	Introduction to native applications
Week 3	Technologies used to build native applications
Week 4	Typescript
Week 5	Typescript (cont'd)
Week 6	Angular

Week 7	MVC
Week 8	The Ionic framework
Week 9	CSS components
Week 10	CSS components (cont'd)
Week 11	JavaScript components
Week 12	JavaScript components(cont'd)
Week 13	The UIKit Framework
Week 14	The UIKit Framework (cont'd)
Week 15	Final Exam