



# MOBILE DEVELOPMENT

## APPLICATION INSTRUCTION PACKET

last updated Nov 2024

Please read through this entire packet carefully. The application process must be complete by:

FALL: May 15 - June 15 of applicable year.

SPRING: October 15 - November 15 of applicable year.

### **Program Coordinator:**

Jane Madsen (jane.madsen@mtec.edu) can be contacted with any questions about the application and program.

### APPLICATION INFORMATION

1. Incomplete applications, received at any time, will not be considered or scored. All supporting documentation must be uploaded while completing the online application.
2. To access the online application for this program, applicants must take the MTECH Career Ready 101 Math and English Assessment and score a minimum of 4 for each section. This exam is free to take and can be completed during normal testing hours on a walk-in basis at the Lehi Main Campus. There is a waiting period of at least 24 hours for any repeat attempts. Please call the MTECH Testing Center for more information at 801-753-4110, or by email at [testcenter@mtec.edu](mailto:testcenter@mtec.edu).
3. Submitting an application does not guarantee admission to the program.
4. Entry into the program is determined by a competitive, points-based process.
5. There will be a waiting list in order of application point value until the 1<sup>st</sup> day of class. After that you must reapply during the next application period.
6. The application process will not discriminate based on race, color, national origin, religious background, sexual orientation, age or disability.
7. This is a 22 credit hour program, and requires students to submit a completed app to the App Store.
8. All payments of tuition and fees must be made 2 weeks prior to class start date or program acceptance will be rescinded.
9. If you are applying for Federal Financial Aid, please go to <http://mtec.edu/financial-aid/> for more information. You must contact the Financial Aid department immediately upon receiving acceptance to the program in order to have funding by the payment due date. If financial aid eligibility has not been established before this date, your program acceptance will be rescinded.



## PROGRAM DESCRIPTION

This program provides students with the analytical, critical thinking, problem-solving and practical skills needed to plan, develop, and publish iOS apps in the Swift programming language. After being introduced to programming fundamentals, students will learn about industry standard tools, frameworks, and code architecture patterns.

This program is taught by industry developers, engineers, and/or project managers who all utilize what they teach daily. It is designed to teach students the skills need to be a junior-level iOS developer, as well as publish and maintain apps independently.

Throughout the program, students will complete a series of professional portfolio projects. After the main course content, students will design, develop, and publish an app to the App Store (students 18+ only; see below for details on alternative requirements for <18 students.)

## EXTERNSHIP POLICY

The Mobile Development program no longer requires students complete an externship; the requirement has been superseded by the App Store Submission requirement.

## APP STORE SUBMISSION POLICY

After students have learned all the core development skills taught in the program, the "Prototyping and Project Planning" course will require students to propose, plan, develop, and test a fully featured app demonstrating an original idea or improvement on existing technologies, with the goal of submitting the app to the App Store. Program instructors will guide students at every stage of this process, but responsibility for completing and submitting the app ultimately falls to the student.

Students who are **above the age of 18** by the end of the course are required to submit this app to the App Store through Apple's App Store Connect service. The app's must be approved by Apple and available on the store by no later than the final day of the program.

Students **under the age of 18** are not eligible to submit an app to the App Store, and will instead be required to undergo a simulated submission process with their instructors.

Students retain all rights and control over software created in the course of this program unless otherwise agreed upon in writing with the college.

## PROGRESSION PROCEDURE

All students must maintain progress at a rate of 85% or better. Failing to do so will result in the student being placed on a Student Success Plan by the instructor. If the Student Success Plan is not followed and achieved in the time frame allotted, the student will be put on a probationary contract by the MTECH Academic and Career counselor. If the student does not meet the conditions of the probationary contract by the date indicated, the student may be dismissed from the program.



## STUDENT ATTENDANCE POLICY

Due to the hands-on nature of the training received, attendance is very important in all MTECH programs. It is very difficult to make up missed training and as a result, 85% attendance is required in all MTECH programs. However, due to state licensure requirements, some programs have stricter attendance rules that must be met in order to receive the license. These rules will be explained by the instructors of those programs. It is the responsibility of the students to notify the instructor, as soon as possible, as to upcoming absences or emergencies that may arise causing them to miss class.

## PROGRAM STUDENT LEARNING OUTCOMES

1. Students are given the opportunity to apply key skills obtained in the classroom portion of the program. The program is structured to meet and fulfill the following program objectives:
  - Write, review and edit Swift code while working on real world projects.
  - Troubleshoot and debug code.
  - Build a portfolio of iOS applications to showcase knowledge and skills acquired.
  - Collaborate with team members while working to complete defined project goals.
  - Utilize a broad suite of existing tools and frameworks within the Apple development ecosystem.
2. Upon completion of the main learning objectives of the course, students will complete two capstone projects. The first, the independent capstone, is the main focus of the Prototyping and Project Planning course and forms the basis of the student's App Store Submission, which must be completed and available by the end of the program. Through this process, students will attain the following learning outcomes:
  - Students will complete the full cycle of app development from ideation to completion.
  - Students will see how publishing on the App Store works and gain firsthand experience with the marketing and publishing skills required to do so.
  - Students will have a strong portfolio item as they go forward applying for contract work, internships, junior developer positions, or continuing education.
3. The second is a group capstone, and requires students to develop and demonstrate team collaboration skills with other students in the class while working on an existing development project. During the group capstone project, students will attain the following learning outcomes:
  - Students are organized into small project groups with other students and choose from a list of projects.
  - Students practice Scrum Agile project management and complete daily stand up meetings with their group.
  - Students are assigned a supervisor or mentor who acts as a support resource.
  - Students meet frequently with the program coordinator to assess experience and progress toward objectives.



## MTECH MOBILE DEVELOPMENT - PLAN OF STUDY

<b>Program Components</b>	<b>Lecture</b>	<b>Lab</b>	<b>Hybrid</b>	<b>Total</b>
Swift Fundamentals	30	84	6	120
Tables and Persistence	30	54	6	90
Networking and Data	30	33	27	90
SwiftUI and Special Topics	30	30	0	60
Full App Development	30	30	0	60
Prototyping and Project Planning	30	48	42	120
Project: Group Capstone	30	51	39	120
<b>Total</b>	<b>210</b>	<b>330</b>	<b>120</b>	<b>660</b>

## MTECH MOBILE DEVELOPMENT - CLASS SCHEDULE

<b>DAYS</b>	<b>TIMES</b>
Monday	7:30 - 10:30 AM
Tuesday	7:30 - 10:30 AM
Wednesday	7:30 - 10:30 AM
Thursday	7:30 - 10:30 AM
Friday	7:30 - 10:30 AM



**MOBILE DEVELOPMENT PROGRAM COSTS**  
 (This cost breakdown covers the entire program)

<b>TUITION (660 Enrollment Hours)</b> \$2,640	Base tuition for Mobile Development Program
<b>Registration Fee</b> \$40	Registration fee applied to all programs.
<b>Course Fees</b> \$50	Covers classroom supplies and materials
<p><b>Program Fee Options</b> - The cost of the program is dependent on the computer option you select below.</p> <p><b>NOTE:</b>          Specification of MacBooks included in Options 2 and 3 are subject to change depending on vendor availability and price changes. Specifications for each option will be confirmed via email when student is accepted to the program. For most up-to-date information or further questions, contact the program coordinator.</p> <p><b>NOTE:</b>          Once the student receives, opens and starts the computer for the first time, the device then belongs to the student, <b>cannot be returned to MTECH for a refund, and will not be supported by MTECH Technology Department.</b> Apple Care available through the Apple Store 60 days after the purchase date, receipt available through the program coordinator.</p>	
<p><b>Option 1: Provide Own Computer</b>  <b>Program Fee: \$0</b>          (Pre-Approval Required)</p>	<p>To be eligible for this fee, students must provide their own Apple Computer.</p> <p>Minimum system requirements:</p> <ul style="list-style-type: none"> <li>- Able to run macOS Sequoia or later</li> <li>- Apple Silicon Chip (M1 or later)</li> <li>- 8 GB memory</li> <li>- 256 GB storage</li> <li>- USB-C or HDMI ports</li> </ul> <p>Once accepted to the program, students must produce their device specifications for the Program Coordinator to determine if their device is acceptable for use in the program before the lower program fee can be approved.</p>



<b>Option 2: MacBook Air</b> Program Fee: \$1000	Student will receive MacBook Air (13.6 inch): 8-Core CPU, 8-Core GPU, 8GB Unified Memory, 256GB SSD, M3 chip (or similar: see note above.)
<b>Option 3: MacBook Pro</b> Program Fee: \$2000	Student will receive MacBook Pro (14 inch): 8-Core CPU, 10-Core GPU, 16GB Unified Memory, 1TB SSD, M3 chip (or similar: see note above.)
<b>Apple Developer Membership</b> \$99	This is paid directly to Apple by the student unless student qualifies for financial aid.
<b>Total</b>	Depends on Program Fee Option chosen <b>Option 1:</b> \$2,829.00 <b>Option 2:</b> \$3,829.00 <b>Option 3:</b> \$4,829.00

### COST BREAKDOWN NOTES

1. Tuition and Fees are DUE once admitted to the Mobile Development Program.
2. If you are accepted you will be notified by email of the due dates for the fees.
3. Tuition rates generally change annually on July 1st, and may increase from current rates.
4. The above costs are estimates only. The cost for fees, tuition, computing devices and any other associated costs are subject to change at any time and without notice.
5. Please note, if the student is accepted into the program and chooses to pay program fees that include a computing device, once the student receives, opens and starts the computer for the first time, the device then belongs to the student and cannot be returned to MTECH for a refund and will not be supported by MTECH Technology Department.

### WHAT TO BE PREPARED TO DO WHEN APPLYING FOR THE MTECH MOBILE DEVELOPMENT PROGRAM

- Take and pass the MTECH Career Ready Assessment in Math and Reading with a minimum score of 4 on the Reading assessment and 5 on the Math assessment. The Assessment requirement can be waived by providing proof of external testing or alternative documentation; contact the admissions department or testing center for more info.
- Fill out online application once assessment minimum scores have been achieved. The application link will be given to you upon completion of the Career Ready Assessment tests.
- Your registration experience will be smoother if you start early. The registration and Financial Aid application process can be confusing and time consuming. It is not an overnight process.
- Please visit the MTECH Financial Aid page to get started. Review the information you find there before contacting Financial Aid. Priority processing will be provided to all applicants who have completed the financial aid requirements 5 days prior to your program start date. This includes students who are designated on a wait list.



## WHAT HAPPENS AFTER YOU APPLY

Once the application period is closed, the Mobile Development Program Coordinator will review all submissions. Applicants may be called in for a personal interview.

Applications will be evaluated using a point system with a standard rubric to select candidates based on the Career Ready 101 Math and English Assessment scores, previous programming or computer technology experience, and responses to the application logic problems.

The applicants with the highest overall scores will be offered acceptance in the program. All other qualified applicants will be placed on the alternate list. The Mobile Development faculty, Program Coordinator and Program Director reserve the right to interview additional qualified applications if the initial interviewees do not meet minimum standards.

## MOBILE DEVELOPMENT APPLICATION POINT BREAKDOWN

Component	Alternative	Maximum Point Value
Career Ready 101 Assessment  Your score for the Math assessment will award points on your application equal to your score, plus 1 (i.e. scoring a 5 will award 6 points.)  No extra application points are awarded for your Reading Comprehension score; all candidates scoring above 4 are considered equally.  Must score 4 or higher in both .	Maximum points will be awarded for transcript showing an A grade in Secondary Math II or higher; A grade in Math 1010 or higher; ACT Math 22 or higher; Accuplacer 70 or higher; or other equivalent.	8 points
Application Questions	N/a	12 points
Total		20 points

Applications are only good for one application period. If you apply, but are not accepted, you must reapply at another time. Admission to the program is not guaranteed.



## ADDITIONAL INFORMATION YOU WILL NEED IF YOU ARE ACCEPTED:

Interview and alternate notices will be sent out no later than 30 days after the application closing date. Acceptance notifications will be made available after the interviews are conducted and scored.

If you are an alternate you may be notified of an available seat as late as the first day of class.

**NOTE: Admission to the program is contingent on** full payment of tuition, fees and registration with Student Services, due 2 weeks prior to the first day of class.

\*Mountainland Technical College and the Mobile Development Program reserve the right to make changes to the program and the application criteria at any time based on requirements from the institutional accrediting body (The Council on Occupational Education), and the Program Advisory Committee.

## Non-Discrimination Statement

Mountainland Technical College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding nondiscrimination policies:

Lynn Adams

2301 West Ashton Blvd.

Lehi, UT 84043

Phone: 801-753-4245

ladams@mtec.edu

\*All contact is confidential

### Inquiries may also be sent to:

Office for Civil Rights, Denver Office

U.S. Department of Education

Cesar E. Chavez Memorial Building

1244 Speer Boulevard, Suite 310

Denver, CO 80204-3582

Phone: 303-844-5695

Fax: 303-844-4303

TDD: 800-877-8339

OCR.Denver@ed.gov