

WEB PROGRAMMING & DEVELOPMENT

APPLICATION INSTRUCTION PACKET - Fall 2020

Please read through this entire packet very carefully. The application process for the MTECH Web Programming & Development Program must be completed by the dates listed below. MTECH may interview applicants after the application process is complete. Applicants that are accepted will be notified no later than 7 business days after the application period closes. The applications dates are as follows:

FALL (August cohort): June 1–June 30 of applicable year.
SPRING (January cohort): October 15–November 15 of applicable year.

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 1 and English A assessments and score a minimum of 5 for each section or provide approved documentation showing competency for these assessment requirements. For information regarding acceptable alternative testing and/or transcribed credit please visit www.mtec.edu/testing. The MTECH Assessment Tests are free to take and can be completed during normal testing hours on a walk-in basis at any MTECH Main Campus Testing Center. PLEASE NOTE: There is a waiting period of at least 24 hours for any repeat attempts and only 3 attempts will be allowed. For more information please visit www.mtec.edu/testing.
3. Applicants must have successfully completed the Introduction to Programming prerequisite course before being eligible to apply for the Web Programming & Development Program. Students who have previous programming and educational experience are welcome to attempt the Web Programming and Development Competency Exam at the MTECH Testing Center to waive the prerequisite requirement. Only one attempt at the Competency Exam will be offered. If this exam is not passed with a percentage of 80% or better, the prospective applicant must enroll and successfully complete the Introduction to Programming course.
4. **Submitting an application does not guarantee admission to the program.**
5. Entry into the program is determined by a competitive, rubric points-based process.
6. A waiting list will be developed in the order of application point value until the 1st day of class should a student decide not to attend. Any applicants not accepted must reapply during the next application period to be considered again.
7. The application process will not discriminate based on race, color, national origin, religious background, sexual orientation, age or disability.
8. This is a 903 clock hour program, including a 240 hour externship.
9. All payments of tuition and fees must be made 2 weeks prior to class start date or program acceptance will be rescinded.
10. If you are applying for Federal Financial Aid, please go to <https://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 knowledge, computational, problem-solving and practical skills needed to integrate and deploy modern websites and web applications. Students will adapt and use industry-standard tools, including modern client-side and server-side languages, relational and non-relational database structures to frameworks used in the web industry today.

This course is taught by industry developers, engineers, project and/or department managers who all utilize what they teach daily. This program is designed to give students the skills needed to be a Front-End and Junior-Level Web Developer.

Throughout the program students will complete a series of professional portfolio projects. Finally, students must complete a 240 hour externship in order to receive a certificate of completion for this program.

BACKGROUND CHECKS

Prior to each student's externship, students may be required to complete a background check through the Utah Bureau of Criminal Identification. Any student found to have a misdemeanor or felony will not be allowed to participate in an externship.

EXTERNSHIP POLICY

Upon satisfactory completion of all exams and payment of all college costs and fees, students are eligible for an externship. The externship of the program can only begin if the student has passed all final competencies. All students must be fully prepared, able, and willing to appropriately represent Mountainland Technical College.

The student is responsible for transportation to and from the externship sites. No concession or guarantees can be made in regard to distance, day, time, facility or other student preference. The externship experience is a period of learning, observing and practicing the skills learned in the student's program. Upon completion of an externship site rotation, the extern supervisor will complete an evaluation report of the student's performance. Failure to perform professionally while participating in the externship, including speech or demeanor which reflects poorly on the college or affiliated extern site, may result in dismissal from the site and/or college.

Students are expected to complete their externship experience within the time frame allotted. Students must not schedule breaks or vacations or large life events during their externship nor schedule a break between the end of the classroom portion and the externship period.

Students will be required to successfully complete all 240 externship hours in order to complete the program and obtain a Certificate of Completion in Web Programming & Development from Mountainland Technical College. Students must complete all externship hours within 15 weeks of completing the last day of instruction. Any hours not completed within this 15 weeks could result in being ineligible for program completion and may result in being dropped from the program. Externship hours can be accomplished through a full-time (8 hours daily) or part-time (4 hours daily) schedule.

PROGRESSION PROCEDURE

All students must maintain a progress at a rate of 85% or better. Failing to do so will result in the student being placed on an Academic Improvement Plan by the Program Coordinator . If the Academic Improvement 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 student 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 programming code while working on projects.
 - Troubleshoot and debug code.
 - Build a portfolio of web applications to showcase knowledge and skills acquired.
 - Collaborate with team members while working to complete defined project goals.

2. Upon completion of the classroom portion of the MTECH Web Programming and Development program, students are required to complete a 240 hour externship. During the externship, students are given opportunities to apply their newly developed programming skills while working in a real-world software development environment. Below are some of the primary components of the externship program.
 - Students are embedded into existing development teams, or organized into small project groups with other students.
 - Students may select a 20 hour or 40 hour work week schedule (totaling 240 hours).
 - Students engage in tasks and assignments to support product development and/or other special development projects.

- Students are given the opportunity to shadow and collaborate with experienced developers.
- Students are assigned a supervisor or mentor who acts as a support resource.
- Students meet or report bi-weekly with the program coordinator to assess experience and progress toward objectives.

MTECH WEB PROGRAMMING & DEVELOPMENT - PLAN OF STUDY

PROGRAM COMPONENTS	LAB	LECTURE	HYBRID	TOTAL
Introduction to Front End Development; including IDE, Basic OS, Git, GitHub, HTML/CSS, SASS, and Bootstrap	50	22	23	95
JavaScript	98	43	25	166
TypeScript and Angular	77	34	26	137
React and Redux	56	25	9	90
Back End Development; including Automated QA, Servers, Database, Hosting, Deployment, Security	90	39	16	145
Workplace Relations/Softskills	10	5	15	30
Externship	240	0	0	240
Total	621	168	114	903

MTECH WEB PROGRAMMING & DEVELOPMENT CLASS SCHEDULE (EXTERNSHIP TIMES WILL VARY)

DAYS	TIMES
Monday	7:30 am–10:30 am
Tuesday	7:30 am–10:30 am
Wednesday	7:30 am–10:30 am
Thursday	7:30 am–10:30 am
Friday	7:30 am–10:30 am

WEB PROGRAMMING & DEVELOPMENT PROGRAM COSTS

(This cost breakdown covers the entire program)

TUITION (903 Enrollment Hours)	\$1,896.30
<p style="text-align: center;">Option 1 Program Fee: \$1,100 (PRE-Approval Required)</p>	<p>To be eligible for this fee, students must have their own Apple or PC laptop that meets these specifications: Minimum Requirements: <i>8 GB memory; 256GB SSD storage; USB or HDMI Ports.</i></p> <p>Once admitted 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> <p>DEPENDING ON DEVICE, STUDENTS MAY NOT BE ABLE TO USE THE ADDITIONAL MONITOR PROVIDED IN CLASSROOM.</p>
<p style="text-align: center;">Option 2 Program Fee: \$2,300 (MacBook Pro 13.3 inch)</p>	<p>Program fee includes: 13" MacBook Pro - 1.4 GHz dual-core intel Core i5 Processor, 8GB memory, 256GB SSD storage, 2 x Thunderbolt 3 ports, Magic Keyboard, Touch Bar and Touch ID.</p> <p>THIS OPTION ALLOWS FOR AN ADDITIONAL CLASSROOM MONITOR TO BE USED.</p> <p><i>*Please note, once the student receives, opens and starts the computer for the first time, the device now belongs to the student and cannot be returned to MTECH for a refund. Apple Care available through the Apple Store 60 days after the purchase date, receipt available through the Web Programming & Development Coordinator.</i></p>

<p style="text-align: center;">Option 3 Program Fee: \$3,300 (MacBook Pro 16 inch)</p>	<p>Program fee includes: 16" MacBook Pro - 2.6 GHz dual- core intel Core i5 Processor, 16GB memory, 512GB SSD storage, 4 x Thunderbolt 3 ports, Magic Keyboard, Touch Bar and Touch ID.</p> <p>THIS OPTION ALLOWS FOR AN ADDITIONAL CLASSROOM MONITOR TO BE USED.</p> <p><i>*Please note, once the student receives, opens and starts the computer for the first time, the device now belongs to the student and cannot be returned to MTECH for a refund. Apple Care available through the Apple Store 60 days after the purchase date, receipt available through the Web Programming & Development Coordinator.</i></p>
<p>TRAINING MATERIALS AND LEARNING RESOURCES</p>	<p>INCLUDED IN FEES</p>
<p>MTECH FACILITY FEE</p>	<p>\$50.00</p>
<p>MTECH REGISTRATION FEE</p>	<p>\$40.00</p>
<p style="text-align: right;">TOTAL</p>	<p>Determined by Program Fee Option Choice Option 1: \$3,086.30 Option 2: \$4,286.30 Option 3: \$5,286.30</p>

Please Note:

1. Tuition and Fees are DUE once admitted to the Web Programming & Development Program.
2. If you are accepted you will be notified by email or phone 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 now 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 WEB PROGRAMMING AND DEVELOPMENT PROGRAM

Only applicants who have successfully completed the Introduction to Programming prerequisite course or successfully passed the Competency Exam with 80% or better can apply. This exam cannot be retaken. Candidates have two hours to complete this exam at any MTECH Testing Center.

Prerequisites to apply

1. Web Programming & Development minimum qualification for application:

- 1 (Math)
- A (English)

MATH Assessment 1: Score of 5 on MTECH Entrance Assessment; or

- Accuplacer: 50+;
- High School transcript with B or higher in Secondary II Math courses;
- College transcript with B or higher in Math 1010
- ACT Math: 21+

ENGLISH Assessment A: Score of 5 on MTECH Entrance Assessment; or

- Accuplacer: 65+;
- High School transcript with B or higher in English 10 courses;
- College transcript with B or higher in English 1010
- ACT English or Reading: 21+

2. Complete and pass the *Introduction to Programming* course or the *Competency Exam* with 80% or better.

Apply

1. Fill out online application once assessment minimum scores have been achieved. This online application can be done online. A code challenge portion will be included in this application. Candidates have two hours to complete this application with a score of 80% or better.

WHAT HAPPENS AFTER YOU APPLY

Once the application period is closed, the MTECH Web Programming & Development 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 Math and English assessment, introduction to programming course or competency exam and the outcome of the coding challenge.

Applicants with the highest overall scores, will be offered acceptance in the program. All other qualified applicants will be placed on the alternate waiting list. The Web Programming & Development faculty, Program Coordinator and Program Director reserves the right to interview additional qualified applications if the initial interviewees do not meet minimum standards. Other seats may become available as additional facilities are secured for externship slots.

WEB PROGRAMMING & DEVELOPMENT APPLICATION POINT BREAKDOWN

Component	Alternative	Maximum Point Value
* Math Assessment: Level 1	*Use Level 1 parameters= MTECH assessment 5 or higher -or- Maximum points will be awarded for higher score of 8 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	Level 1 parameters (MTECH Assessment of 5=6 points) MTECH Assessment of 6 = 7 points MTECH Assessment of 7 = 8 points
* English Assessment: Level A (no extra points available)	Use Level A parameters	0
* Introduction to Programming OR Competency Exam	No alternative documents accepted	Score of >70% = 0 Score of 70%-84% = 1 Score of 85%-89% = 2 Score of 90%-95% = 3 Score of 95%-100% = 4
Code Challenge	No alternative documents accepted	Score of >70% = 0 Score of 70%-84% = 1 Score of 85%-89% = 2 Score of 90%-95% = 3 Score of 95%-100% = 4
Web Application (This application can be completed at home and must be submitted within 3 days after taking the Code Challenge)	No alternative documents accepted	1
TOTAL		13

Note: * *prerequisite requirements.*

Applications are only good for one application period. If you apply, but are not accepted, you must reapply at another time. Candidates with a score of 7 out of 13 points will be considered for admission into the program.

ADDITIONAL INFORMATION YOU WILL NEED IF YOU ARE ACCEPTED:

Interview and alternate notices will be sent out no later than 7 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:

1. Full payment of tuition, fees and registration with Student Services due two (2) weeks prior to the first day of class.

** Mountainland Technical College and the Web Programming & 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.*