

STEM

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

PROGRAMMING AND SOFTWARE DEVELOPMENT: APP DEVELOPMENT

(MOBILEMAKERSEDU)

PROGRAM OF STUDY

Through the Programming and Software Development: App Development (MobileMakersEdu) program of study students learn coding and design skills to bring mobile app ideas to life. During this process students build working apps for Apple’s mobile devices using the language and tools of professionals – Swift and Xcode.

Texas Data: Collected by TEA October 2019

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Software Developer, Systems Software	\$103,334	2,985	25%
Software Developers, Applications	\$104,499	6,311	30%
Computer Programmers	\$79,893	1,454	9%



RECOMMENDED COURSE SEQUENCE

- 1 LEVEL** Computer Science Principles AP
- 2 LEVEL** Computer Science I Advanced/IB
- 3 LEVEL** Mobile Application Development: MobileMakersEdu
- 4 LEVEL** Practicum in STEM: MobileMakersStudio

NOTE: See reverse for additional course sequence options and endorsement requirements. Course descriptions and details can be found in the course catalog.

WORK-BASED LEARNING EXPERIENCES

Learn in Dev-Shop Environment; Industry Guest Speakers/Panels; Industry Developer Mentors; Job Shadows; Internships; Industry and Post Secondary Education Site Visits/ Field Trips; Industry/Community App Development; Meet The Maker Event

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

UIL; National Technology Honor Society (NTHS); DECA; Science Fair



The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Non-Discrimination Statement

It is the policy of Leander ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its Career and Technology Education Programs, services, or activities. Leander ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. Es norma de Leander ISD de no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales. Leander ISD tomará las medidas necesarias para asegurar que la falta de habilidad en el uso de la lengua inglés no sea un obstáculo para la admisión o participación en todos los programas educativos y vocacionales.

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A student may earn a STEM endorsement by completing foundation and general endorsement requirements including Algebra II, Chemistry and Physics. Endorsement course options for the App Development Program of Study are listed below.



7 CREDITS REQUIRED

Required Courses (check prerequisites):

- Algebra II
- Chemistry
- Physics

Choose 4 additional credits from the following:

- Fundamentals of Computer Science
- Computer Science Principles AP
- Computer Science I Advanced
- Computer Science A AP
- Computer Science IB HL
- Computer Science IB SL
- Computer Science III
- Digital Forensics
- Mobile Application Development
- Practicum in STEM
- Practicum in Entrepreneurship
- Independent Study in Technology Applications

NOTE: Students who do not complete Algebra II, Chemistry and Physics, but earn four credits in the Programming and Software Development Program of Study, are eligible to earn a Business and Industry Endorsement.

NOTES:
