



## Office of School Improvement Tim Johnston- Program Coordinator 501-682-1616

The Mobile Applications Development (MAD) program of study is curriculum created to teach the design, development, or use of mobile device applications. Schools will have the option of development for Android or iOS platforms.

The MAD program of study consists of:

**Intro to Mobile Apps:** A broad 1 credit course that covers the fundamental elements of mobile app development in both Android and iOS platforms.

**MAD I:** a .5 credit course that focusses on either platform the school district feels best suits the students and community.

**MAD II:** a .5 credit course that continues on the concepts covered in the MAD I course work.

**Mobile Applications Lab A and B:** Two .5 credit labs. In an effort to assist in scheduling, students who have successfully completed Intro to Mobile Apps, MAD I and II may take either Lab A, or Lab B without one being a prerequisite for the other. This is a project-based curriculum which allows the creation of either semester-long or year-long projects dependent upon the students' scheduling.

Curriculum Content Frameworks for all MAD courses are project based and team oriented in regard to both instructors and students. The Mobile Applications Lab focuses on strong internship collaboration with technical business and industry partners in the community.

As each program progresses, more business and industry partners should be encouraged and invited to partner with the teams to provide input and serve as potential internship sites.

Instructors of MAD courses have ample resources to sharpen, improve and expand their individual skill sets according to each team's computer programming needs. This will need to be done regularly in order to stay current on all industry standards. A close relationship to the computer programming department of the local college or university is encouraged.

Common Core Curriculum skills will be reinforced by the MAD program of study. Students are constantly exposed to technical reading and will need to develop strong algebraic thinking in order to become successful mobile application programmers.

The MAD program of study is entirely project based and focuses on student ability and skill level making it an appealing option for the entire student body including special populations.

The MAD program of study also services the school as a whole in real time by providing the teams with the opportunity to enrich student and faculty life. For example, one of the pilot schools put the school newspaper online and worked to develop a mobile app which would have the benefit of providing a service the school would otherwise have to fund.