

## CFISD Project-based Research in STEM Scope and Sequence

### Course Description:

This course is a supervised research study project-based class where students will apply knowledge and skills from previous STEM Education courses in a related advanced/specialized field of study. Students are required to submit a formal project plan within 15 school days after enrollment in the course. The plan should specify the additional concepts and/or technologies that will be studied and utilized, along with an overview of the culminating project.

- Grades 11 – 12
- Required prerequisite: At least two (2) credits in the STEM cluster
- Lab fee will be required

### TEKS

Cluster: Science, Technology, Engineering and Mathematics

Endorsement: STEM

- Meets advanced course requirement (Y/N): YES
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): N

Industry Certification/Credentials: n/a

Instructional Units	Pacing
1 <sup>st</sup> Semester Application of STEM skills Independent study Communication verbal and non-verbal skills Project design and development	1 <sup>st</sup> and 2 <sup>nd</sup> Grading Prd
2 <sup>nd</sup> Semester Research Portfolio Development Presentation of project Professionalism	3 <sup>rd</sup> and 4 <sup>th</sup> grading Prd

Primary Instructional Materials: Will vary depending on workplace/field experience