



OKLAHOMA STATE
DEPARTMENT of EDUCATION

TO: The Honorable Members of the State Board of Education

FROM: Joy Hofmeister

DATE: December 17, 2020

SUBJECT: Francis Tuttle Technology Center Requesting Approval of Application for Focus Field of Study for Entrepreneurship Academy

The State Department of Education is requesting approval of the Francis Tuttle Technology Center Requesting Approval of Application for Focus Field of Career Study for Entrepreneurship Academy.

“Technology centers may offer programs designed in cooperation with institutions of higher education which have an emphasis on a focused field of career study upon approval of the State Board of Education and the independent district board of education. Students in the tenth grade may be allowed to attend these programs for up to one-half (1/2) of a school day and a credit for the units or sets of competencies required in paragraphs 2 and 3 of subsection B of this section shall be given if the courses are taught by a teacher certified in the secondary subject area.”

70 O.S § 11-103.6

Based on Title 70 §11-103.6.G.1, the State Board of Education shall “ensure that rigor is maintained in the content, teaching methodology, level of expectations for student achievement, and application of learning in all the courses taught to meet the graduation requirements.” The submitted application for Metro Technology Centers were reviewed based on three primary considerations to address this mandate:

1. the extent to which the course addresses the **necessary and appropriate content**
 - a. Evidence Reviewed: Alignment Study of Course Materials and Competencies to Oklahoma Academic State Standards
2. the extent to which the instructor is certified to provide **rigorous instruction** and ensures a **high level of expectations** for students
 - a. Evidence Reviewed: Course Description, Course Syllabus and Identification of Properly Certified Instructor
3. the extent to which there is **application of learning**
 - a. Evidence Reviewed: Joint Program Agreements

For courses that provided all necessary documentation, each component was reviewed based on the submitted materials and has been rated as demonstrating either Insufficient Evidence or Sufficient Evidence. Where possible and appropriate, recommendations are provided to increase supporting evidence. Otherwise, an account of the provided evidence is summarized.

The attached report indicates that the application has **Sufficient Evidence** across all three considerations. It is, therefore, our recommendation that **this Field of Study for Entrepreneurship Academy should be approved.**

The Oklahoma State Department of Education is thankful for the time and dedication of the applicant and especially to the guidance and support offered by the Oklahoma State Department of Career Technology.

attachment: Francis Tuttle Technology Center Field of Study Review - 2020

ck/hj



Review of Francis Tuttle Technology Center’s Focus Field of Study Application

Date: November 12, 2020

Reviewed By: Christine Koerner, Director of Secondary Mathematics Education, and Heather Johnston, Director of Science and Engineering Technology

Summary of Findings

The reviewed courses listed below were identified in the Application for a Focused Field of Career Study for **The Entrepreneurship Academy within the Business Marketing Information Technology** pathway as required or available to students at the Francis Tuttle Technology Center. Only those courses traditionally taught in an Oklahoma public-school setting were reviewed.

The application **has provided sufficient evidence** to satisfy all considerations and is **approved** to provide the mathematics and science content required by the identified Focus Field of Study to sophomores, juniors, and seniors of the cooperating partner school. In particular, the following courses are approved: **AP Calculus AB, AP Calculus BC, AP Statistics, Honors Algebra II, Honors Geometry, Honors Trigonometry/Pre-Calculus, AP Physics, AP Physics II, Honors Chemistry, and Honors Physics.**

The table below represents a summary of the review process for Francis Tuttle Technology Center’s Focused Field of Study. Each course submitted to the Oklahoma State Department of Education is listed, along with a summary of each course review. Justification of each rating can be found on pages two and three of this document.

Mathematics			
Course Identified in Field of Study	Oklahoma Academic Standards Assurance	Syllabus	Result
AP Calculus AB	-	Sufficient	Sufficient
AP Calculus BC	-	Sufficient	Sufficient
AP Statistics	-	Sufficient	Sufficient



Honors Algebra II	Sufficient	Sufficient	Sufficient
Honors Geometry	Sufficient	Sufficient	Sufficient
Honors Trig/Pre-Calc	Sufficient	Sufficient	Sufficient
Science			
Course Identified in Field of Study	Oklahoma Academic Standards Assurance	Syllabus	Result
AP Physics	-	Sufficient	Sufficient
AP Physics II	-	Sufficient	Sufficient
Honors Chemistry	Sufficient	Sufficient	Sufficient
Honors Physics	Sufficient	Sufficient	Sufficient

Process

Based on Title 70 §11-103.6.G.1, the State Board of Education shall “ensure that rigor is maintained in the content, teaching methodology, level of expectations for student achievement, and application of learning in all the courses taught to meet the graduation requirements.” The submitted application for **Francis Tuttle Technology Center** was reviewed based on three primary considerations to address this mandate:

- 1) the extent to which the course addresses the **necessary and appropriate content**
 - a) Evidence Reviewed: Oklahoma Academic Standards Assurance and related documentation
- 2) the extent to which the instructor is certified to provide **rigorous instruction** and ensures a **high level of expectations** for students
 - a) Evidence Reviewed: Course Description, Syllabus, and Identification of Certified Instructor
- 3) the extent to which there is **application of learning**
 - a) Evidence Reviewed: Joint Program Agreements

For courses that provided all necessary documentation, each component was reviewed based on the submitted materials and has been rated as demonstrating either *Insufficient Evidence* or *Sufficient Evidence*. Where appropriate, recommendations are provided to increase supporting evidence.



Further, possible revisions are provided to indicate that they are not required but may be useful in increasing supporting evidence.

Review of Francis Tuttle Technology Center Field of Study

Consideration 1 - Necessary and Appropriate Content

Honors Algebra II

- The Oklahoma Academic Standards Assurance provides Sufficient Evidence regarding the coverage of necessary and appropriate content found in the Oklahoma Academic Standards for Mathematics.

Honors Geometry

- The Oklahoma Academic Standards Assurance provides Sufficient Evidence regarding the coverage of necessary and appropriate content found in the Oklahoma Academic Standards for Mathematics.

Honors Trig/Pre-Calc

- The Oklahoma Academic Standards Assurance provides Sufficient Evidence regarding the coverage of necessary and appropriate content found in the new Oklahoma Academic Competencies for Pre-Calculus/Trigonometry.

Honors Chemistry

- The Oklahoma Academic Standards Assurance provides Sufficient Evidence regarding the coverage of necessary and appropriate content found in the new Oklahoma Academic Standards for Science.

Honors Physics

- The Oklahoma Academic Standards Assurance provides Sufficient Evidence regarding the coverage of necessary and appropriate content found in the new Oklahoma Academic Standards for Science.



Consideration 2 - Rigorous Instruction and High Level of Expectations

AP Calculus AB

- The AP Calculus AB course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

AP Calculus BC

- The AP Calculus BC course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

AP Statistics

- The AP Statistics course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

Honors Algebra II

- The Honors Algebra II course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

Honors Geometry

- The Honors Geometry course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

Honors Trigonometry/Pre-Calculus

- The Honors Trig/Pre-Calc course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.



AP Physics

- The AP Physics course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

AP Physics II

- The AP Physics II course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

Honors Chemistry

- The Honors Chemistry course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

Honors Physics

- The Honors Physics course description, syllabus, and teacher certification provides Sufficient Evidence regarding the expectation of rigorous instruction and ensures a high level of expectations for students.

Consideration 3: Application of Learning

- **Findings for Francis Tuttle Technology Center:** The copies of the Joint Program Agreements provide Sufficient Evidence regarding the expectation of application of learning.