EXECUTIVE SUMMARY

Approval for *Request to Add a New Course* forms for Computer Science Courses
and Introduction to Debate K-5 Courses

Table 1. Timeline of Course Code Adoption Process

Date	FLDOE Process Step
August 19, 2020	Approval by SBBC to submit the requests for course code addition to FLDOE
	Course request forms signed by Superintendent
September 1, 2020	Course request forms uploaded to FLDOE via CPALMS and evidence of school board approval emailed to FLDOE.
November 1, 2020	FLDOE review and approval. This process can take up to 60 days. Once approved it is added to the Course Code Directory for use by Broward and any other Florida district.
November 2020	Change existing elementary debate specials to new grade level specific Introduction to Debate course codes.
November 2020 – May 2021	Develop, curate, and pilot curriculum modules for Computer Science in Science Honors and Data Science Honors
Summer 2021	Teacher professional learning for Computer Science in Science Honors and Data Science Honors
2021-2022 School Year	High Schools offer Computer Science in Science Honors and Data Science Honors Elementary schools offer Introduction to Debate

FLDOE policy: http://www.fldoe.org/policy/articulation/ccd

<u>Proposed New Computer Science Courses</u>

According to Florida Statute **1007.2616** (6)   High school students must be provided opportunities to take computer science courses and earn technology-related industry certifications to satisfy high school graduation requirements as provided in s. 1003.4282(3). Computer science courses and technology-related industry certifications that are identified as eligible for meeting mathematics or science requirements for high school graduation must be included in the Course Code Directory.

The Florida Course Code Directory has limited offerings where students can learn relevant mathematics and science through computer science. The Applied Learning Department proposes to remedy this issue with the creation of two new high school computer science courses that will satisfy high school graduation requirements for mathematics and science that include an integration of computer science standards with science and mathematics. With the focus on topics at the intersection of mathematics and computer science (data science) and science and computer science (modeling and simulation of abstract physical science), these courses will engage students in relevant problem solving using state-of-the art computational techniques.

These proposed high school computer science courses both focus on contextual learning through project-based instruction that provides opportunities for full integration of computer science skills while developing a deep and full understanding of the mathematics and science standards in ways that are both rigorous and relevant.

The two computer science courses will give high schools the flexibility to focus in-depth on specific mathematics and science content areas with these problem-based, project-based courses that utilize local partnerships and resources to teach science through applications in the various science content areas:

Upon approval, BCPS will submit these two high school computer science course descriptions to the Florida Department of Education and request addition to the state Course Code Directory.

Proposed New Elementary Debate Courses

Broward County Public Schools (BCPS) is home to the largest Debate Initiative in the country. Beginning in 2018-2019, BCPS began offering a Debate special at the elementary school level, but currently there is no course code for Debate in the State Course Code Catalog. In 2019-2020, approximately 2,000 elementary school students participated in a Debate special with another 5,000 potential students (currently engaged in extra-curricular Debate participation) across the district. We propose to remedy this issue with the addition of a new content-focused Introductory Debate course in the State Course Code Catalog.

These proposed Introduction to Debate courses focus on contextual learning through project-based instruction that will provide opportunities for full integration of literacy skills while developing a deep and full understanding of the ELA standards in ways that are both rigorous and relevant.

The Introduction to Debate courses for K-5 will give elementary schools the flexibility to focus in-depth on ELA standards in Literacy, Speaking & Listening, as well as Language Development. Upon approval, BCPS will submit these Introduction to Debate course descriptions to the Florida Department of Education and request addition to the state Course Code Directory.

Table 2. Brief Course Description of Requested Course Code Additions

Proposed Course Title	Brief Course Description
Computer Science in Science Honors	This course is an integrated Physical Science and Computer Science course for high school students. This Physical Science course includes an integration of standards from both physical science and computer science. This integration of computer science with applications in physical science will engage students in science as it is done in academic research and the workforce, better preparing students for college and career. This Computer Science in Science course is to be a problem-based, project-based course that utilizes local partnerships and resources to teach science through various applications. Most of the 9-12 physical science standards, as well as applicable 9-12 computer science standards have been included. Contextual learning through project-based instruction will provide opportunities for full integration of the computer science standards while developing a deep and full understanding of the physical science standards in ways that are both rigorous and relevant. Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, engineering practices and safety procedures are an integral part of this course.
Data Science Honors	This course is an integrated Mathematics and Computer Science course for high school students. This Data Science Honors course includes an integration of standards from both mathematics and computer science. This integration of computer science with applications in mathematics will engage students in math as it is done in academic research and the workforce, better preparing students for college and career. This Data Science course is to be a problem-based, project-based course that utilizes local partnerships and resources to teach math through various applications. Most of the 9-12 mathematics standards, as well as applicable 9-12 computer science standards have been included. Contextual learning through project-based instruction will provide opportunities for full integration of the computer science standards while developing a deep and full understanding of the mathematics standards in ways that are both rigorous and relevant.
Introduction to Debate K-5	Introduction to Debate is to be a course to develop K-5 students' beginning awareness, understanding, and application of language arts as it applies to oral communication concepts and strategies in a variety of given settings. A majority of K-5 English Language Arts standards have been included.