Course Proposal Requests are to be communicated with and between:
☐Department/CAS Leader
☐Principal
☐Director of Curriculum
☐Curriculum Committee
☐Director of Curriculum/BOE Curriculum Sub Committee

Granby Public Schools Course Proposal Request

To be completed for recommendation of:

XNew course

☐Revision of a course (not offered for 2 or more years, change in credit, level, alignment to standards, etc.)

☐ Course elimination

☐ Course level change

☐ Impact on Graduation Requirements

Date Submitted:11/16/19 Teacher: Bastiaanse Department/School:GMHS Math

Course Information:

- Course title: AP Computer Science A
- Grade(s) and level (AP, honors, academic):AP
- Number of credits:1
- Prerequisites: Computer Programming Course (AP CSA), Algebra II

Background/Course History:

In 2017-2018 Granby began to offer AP Computer Science Principles. AP Computer Science A is the next level for students who wish to further study Computer Science using the JAVA script programming language. This course is equivalent to a college level computer science course. As part of this course, students will design programs, develop algorithms, and write code to implement these algorithms. In addition, students will learn how to test program code and correct errors. Students will also document and explain how program code works.

Rationale for recommendation: (Vision, mission, standards, enrollment)

As part of the District-wide focus on STEAM, AP Computer Science A provides a pathway expansion for students who have an interest in Computer Science and Engineering. This is the logical progression for students who have already taken a basic computer programming course and/or AP Computer Science Principles.

Former GMHS students enrolled in post-secondary Engineering Programs, have indicated computer programming is a skill set they felt they lacked. This course provides students the opportunity to learn valuable skills and experiences that colleges and employers recognize. These skills include, but are not limited to, problem solving, critical thinking, coding, data collection/organization and presentation skills.

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In the past, some students independently pursued AP Computer Science A, but that is not always a viable option for students.

Curriculum: (Alignment to Standards (common core expectations), integration of other content area standards, performance assessment, rubrics)
This course would be aligned with the Collegeboard AP Computer Science A Curriculum.

How will the content of this course be delivered?
This course would be taught by high school math teacher(s) who would need to be certified to teach this course.

Timelines for consideration (significant dates/deadlines/professional development/curriculum writing):
by end of 2019 - Identify a teacher who may be interested in going to the AP training to teach AP Computer Science A
2020 summer - teacher attend AP training
2020 summer - write curriculum for AP Computer Science A course
2020-2021 school year - offer AP Computer Science A as a pilot year

Budget Implications (textbooks, supplemental resources, staffing, scheduling, professional development training, and curriculum writing):

This column to be checked by Director of Curriculum	**Budget Need Area:**	**Yes/No: Complete for each area listed**	**Amount Needed**	**Purpose – WHY??**
Add to new text budget	Textbook	**X Yes** **☐No**	**1200**	**Support classroom instruction**
Building based	Workbook	**X Yes** **☐No**	**255**	**Support classroom instruction**
Building Based	Staffing	**☐Yes** **☐No**		
Add to PD budget	Professional Development	**X Yes** **☐No**	**2100**	**Teacher training and certification, incl travel**

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Add to Curriculum Budget	Curriculum Writing	**XYes ☐No**	**1096**	**write curriculum 30 hours**
	Other :			

Other:

FOR OFFICE USE ONLY:
Date BOE sub-committee reviewed: _____
Action: ___Approved ___Not Approved