Somers Public Schools

Major Course Modification and New Course Proposal

Type of proposal:	on to existing course New Course
Proposed Course Title: Data Science	Content Area: Computer Science
This course is designed for:	Length of Course:
Freshman Sophomores Juniors Seniors Middle School	Full Year Semester Quarter Trimester
Prerequisites needed by students to take this course: C or better in Coll	ege Prep Algebra 2 or Honors Algebra 2.
What need(s) does this course address? How was the need identified an Five years ago we started the AP Computer Science Principles class at SH levels of success in this class, scoring well on the AP exam. We would lik students, especially those who may not want to take an AP level course. at SHS. Industries of all types are hiring data scientists to analyze and hi Tim Percoski and I identified this need for an additional non AP level con	dS. It has been well attended. Our students have enjoyed high to extend computer / IT course offerings to even more This course will add another option to the STEM course offerings ghlight the hidden patterns in data.
Give a general overview of what this course will cover	
This course equips students with the essential skills of a data scientist wand visualization	hich includes data collection, cleanup, transformation, analysis,
This course will cover the following concepts:	
 Introduction to Data Science Ethics, Privacy, Bias 	
Data types, strings, images	
Data visualization	
Data collection	
Probability and inference	
Defining functions	
Research and viability	

Who designed this course? This course has been designed by Bootstrap World as well as CodeH What, if any, implications does this course have on staffing, other cu Teacher will need to teach this 1-year course. Current staffing could	The teacher show Computer Science specific profession p	
Resources Need Please list the materials/resources neede	led for this Course: d along with an estimat	ed cost including PD.
<u>Materials/Resources</u>	E	Cost
Bootstrap World Professional Development	To be determine	d
CodeHS seat licenses	To be determine	d
Signatures below indicate that the course proposal has been discussed and feedback has been elicited on the proposal prior to completion. Interdisciplinary proposals require the signatures of members of all involved in those content areas/departments.		
Signature Con	tent Area	Dina mferred
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