

Column 13	Teacher to contact for this proposal	Proposed Course Title	Department	Target Audience - Grade Level	Credit	Course Description	Rationale for Proposal	Prerequisites (if any)	Professional Development/Training (type & estimated cost)	Instructional Resources/Materials (type & estimated cost)
Course Elimination										
1	Mary Celest Thell	Adulting 101	FCS	10th, 11th, 12th	1/2 credit (1 trimester)	Over half of the curriculum in this course is included in the now required Personal Finance course.	Over half of the curriculum in this course is included in the now required Personal Finance course. If we continue to offer Adulting 101 in the FCS department, an allotment of curriculum writing time would be requested to rewrite the course with less focus on personal finance and allowing for additional topics to be included.		Writing time only requested if course is not removed and will need to be revamped.	Curriculum materials - \$200 (If class is not removed)
Course Modification										
2	Kurt Konsela	Competitive Engineering One and Two	Tech Ed	9th, 10th, 11th, 12th	1/2 credit (1 trimester)	<p>7010 CIS Competitive Engineering One This class is for students who are creative, thinking about becoming engineers, or like to work with their hands. Students have to find creative solutions to problems they're given in class. Students will compete directly with classmates to see who developed the best solution to the given problem. Examples of problems are catching eggs using only cardboard and duct tape, building a catapult, and making a "wire racer". If it sounds fun and interesting...it is! Students will follow a research and development process for solving the problems. Students keep a daily journal but do not write research papers. Upon successful completion of both terms of the course, students who are eligible for college credit will earn 3 credits from Hennepin Technical College. (See the CIS table for eligibility criteria) Grades: 9-12 Terms: 1</p> <p>7011 CIS Competitive Engineering Two This class is for students who are creative, thinking about becoming engineers, or like to work with their hands. Students have to find creative solutions to problems they're given in class. Students will compete directly with classmates to see who developed the best solution to the given problem. Examples of problems are catching eggs using only cardboard and duct tape, building a catapult, and making a "wire racer". If it sounds fun and interesting...it is! Students will follow a research and development process for solving the problems. Students keep a daily journal but do not write research papers. Upon successful completion of both terms of the course, students who are eligible for college credit will earn 3 credits from Hennepin Technical College. (See the CIS table for eligibility criteria) Grades: 10-12 Terms: 2</p>	This is a course modification rather than a new course. The modification would be to allow Freshmen to take the first part of Competitive Engineering One (open to Grades 9-12). This would allow Freshmen to explore engineering as an area of interest. Competitive Engineering Two would remain open to only Grades 10-12, with the completion of both courses required for college credit.	Need Competitive Engineering One before taking Competitive Two	None, class is already taught	None, class is already taught
Course Additions										
3	Ben Wandmacher	Welding 2	Tech Ed	10th, 11th, 12th	1/2 credit (1 trimester)	Welding 2 emphasizes advanced techniques beyond Intro. to Welding, including different welding processes like Gas Tungsten Arc Welding (GTAW) (TIG), Gas Metal Arc Welding (GMAW) (MIG), and Shielded Metal Arc Welding (SMAW). Students will learn to perform welds in more challenging positions (Vertical, Overhead, Horizontal), understand joint preparation. This course will prepare students for the demanding industry roles by fostering problem-solving skills and providing hands-on experience with complex projects and materials	Currently mostly freshman take Intro to Welding and they don't have an opportunity to weld again until they can take WTC welding, if they can get into it due to enrollment caps. This would fill the gap for these students and better prepare them for WTC Welding. Several students are asking for another welding class here at the high school.	Intro to Welding	None	None
10	Nick Ward, Jessa Rakotz, and Carrie Schmitt	Unified Science	Science	9th, 10th, 11th, 12th	1/2 credit (1 trimester)	<p>This class allows all students (general education partners as well as students who require special education services) to interact in an inclusive environment focused on developing skills in science through hands-on, inquiry-based learning. This opportunity fosters collaboration as students explore key areas of science such as life science, physical science, and environmental science through engaging, real-world investigations and projects.</p> <p>Students will participate in activities such as conducting simple experiments, making observations, collecting data, and drawing conclusions while building teamwork and communication skills. Learning experiences may include exploring topics like ecosystems, earth science, genetics and DNA, energy, weather, and sustainability. The class will also include a community-based experience, such as visiting a nature center or science museum, to connect classroom learning to the real world.</p> <p>Students will have opportunities to take on leadership roles by assisting peers during lab activities, presenting findings, and helping guide group investigations. Through this inclusive approach, students will develop collaboration, critical thinking, and problem-solving skills while gaining confidence in applying scientific inquiry to everyday life.</p>	<p>The course is needed to provide unified opportunities for students with significant disabilities and students without disabilities to partner in learning about science. The evidence that supports the initiation of this new course lies in the experiences derived from the students who have previously participated in a unified music, agriculture, companion animal science, physical education or a home living course at BHS. Many of these students have built lifelong friendships or entered into the field of special education upon completion of a unified course. Students will build leadership skills, collaboration skills and communication skills as a result of taking this course. Additionally, students who require a specially designed classroom (as driven by their IEP) will be able to learn about science with their neurotypical peers in a general education environment while receiving the proper level of support from their special education teacher.</p> <p>BHS has offered AP Biology for many years. In an effort to meet the needs of students we would like to consider switching to a CIS option, if we can make an agreement with a partner. This course could potential be a better fit for our schedule by being 2 terms rather than 3, and be more accessible to 10th graders.</p>	TBD for partners	20 hours of curriculum development time for three teachers	\$1,000 (may need to be adjusted)
9	Kelli Barth	CIS Biology	Science	10th	1 credit (2 trimesters)	BHS has offered AP Biology for many years. In an effort to meet the needs of students we would like to consider switching to a CIS option, if we can make an agreement with a partner.		Any prerequisites set by the college. Potentially an Accuplacer Reading cut score.	None	<p>Possibly a textbook (hopefully not)</p> <p>\$200/book - 40 books = \$8000</p>
7	Jeff Erickson	CIS Environmental Science or AP Environmental Science	Science	11th, 12th	1 credit (2 trimesters)	<p>How can we meet the needs of a growing population while sustaining natural resources? How can the global community collaborate to address environmental challenges? What does science tell us about our relationship with and dependence on the earth? In AP Environmental Science, you'll learn how to use the tools of science to address these and other big questions about our planet's future.</p> <p>Units of Instruction: Unit 1: The Living World: Ecosystems Unit 2: The Living World: Biodiversity Unit 3: Populations Unit 4: Earth Systems and Resources Unit 5: Land and Water use Unit 6: Energy Resources and Consumption Unit 7: Atmospheric Pollution Unit 8: Aquatic and Terrestrial Pollution Unit 9: Global Change</p>	<p>A goal of BHS is to offer the MN Transfer Curriculum. Environmental Science falls within Goal Area 10, which we do not currently have a course for. Also, BHS has demonstrated strong interest in environmental and natural resource management courses.</p> <p>If possible, we would like to offer as a CIS class. If that is not possible, we will offer it as an AP course.</p>	Biology (possible Accuplacer Reading score if a CIS course)	<p>AP Training 1. Registration - \$775 2. Mileage and Meals - \$250</p> <p>Estimated Total: \$1,025</p>	<p>Curriculum Resources: 1. Text: 40 Books @ \$200/text = \$8000 2. Specialized kits and resources - Approximately \$2500</p> <p>Total: \$10,500</p>

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4	Lacy Schramm/ Craig Lachowitz	AP Human Geography	Social Studies	9th	1 credit (2 trimesters)	AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The curriculum reflects the goals of the National Geography Standards (2012). The course is equivalent to an introductory college-level course in human geography. ■ Unit 1: Thinking Geographically ■ Unit 2: Population and Migration Patterns and Processes ■ Unit 3: Cultural Patterns and Processes ■ Unit 4: Political Patterns and Processes ■ Unit 5: Agriculture and Rural Land-Use Patterns and Processes ■ Unit 6: Cities and Urban Land-Use Patterns and Processes ■ Unit 7: Industrial and Economic Development Patterns and Processes https://apcentral.collegeboard.org/media/pdf/ap-human-geography-course-overview.pdf *further study needs to be done to see if this can run as a 1 trimester course as most districts run it as a full year course. This must be run T1 and T2 with practice base time sessions built in to T3 until the AP test day.	This course fulfills a MN Transfer Curriculum goal area that we are missing at BHS and offers a class of rigor at the 9th grade level.	B+ in English 8 and Social 8 are pre-requisite. There are no prerequisites for AP Human Geography. Students should be able to read college-level texts and write grammatically correct, complete sentences.	Online or In-person AP summer training runs \$700-800 person. There are online workshops throughout the year that the teacher (s) should attend to support students with the AP test. https://www.augsburg.edu/ecs/apsi/	Additional books may need to be purchased so that AP HG students could keep the textbook for reading/studying before the AP exam in the spring. (We previously purchased classroom sets of the Rubenstein book for on-level Human Geography and that may work. [Rubenstein, James M. Contemporary Human Geography. Rubenstein, James M. The Cultural Landscape: An Introduction to Human Geography.]) Test Prep Supplies may need to be purchased, as per AP Audit. The school provides a collection of maps, atlases, and other resource materials (including data sources, case studies, mapping resources, and news media) for use by students. AP Testing Fees- student cost
5	Lacy Schramm	CIS Economics	Social Studies	12th	1 credit (2 trimesters)	Economic behavior of consumers/firms in domestic/international markets. Demand, supply, competition. Efficiency, Invisible Hand. Monopoly, imperfect competition. Externalities, property rights. Economics of public policy in environment/health/safety. Public goods, tax policy.	This course offers 4 CIS credits and would replace a required senior level course.	University of Minnesota Class Rank: top 20% Cumulative GPA: 3.25 Prerequisite: B or better in high school algebra 2 This course requires substantial reading, math, and critical thinking.	University of Minnesota training, testing of the instructor, bus fees for campus visit, unknown fees	Microeconomics, Brief Edition. 3rd Edition, by Campbell McConnell, Stanley Brue and Sean Flynn. McGraw-Hill Irwin, 2019. (Cost is approximately \$88 for a paperback)
6	Lacy Schramm	CIS Personal Finance	Social Studies	11th, 12th	1 credit (2 trimesters)	This course is designed for personal financial planning. The topics in the course include goal setting, financial aspects of career planning, budgeting, credit cards, debt and money management strategies, types of savings, retirement plans, investments and tax strategies, insurance, factors that affect the home and car buying versus leasing, fundamentals of investments and various investment options. In addition, basics of estate planning for a lifetime of creating wealth will also be covered. This course will meet the Personal Finance graduation requirement for the class of 2028 and beyond.	This CIS course will meet the Personal Finance graduation requirement for the class of 2028 and beyond. No MNCT Goal areas (Potential partnership with North Hennepin Community College BUS 1440 or others, depending upon instructor qualifications)		Personal Finance summer training at the MCEE, or partner institution.	Textbooks
8	Craig Lachowitz or Dwight Monson	CIS American Government	Social Studies	11th, 12th	1/2 credit (1 trimester)	<p>This course is intended to introduce students to the expressed hopes of the American people for their government and to the institutions and processes that have been created and recreated to achieve these hopes. The course is designed to help students understand American politics as a fundamentally critical and creative enterprise. Questions of power and choice, opportunity and discrimination, freedom and restrictions on freedom are fundamental to the historical development of and current controversies within the American political system, and we will attend to all of these.</p> <p>We will explore topics including the ideas underlying the nation's founding and its constitutional foundations; civil rights and civil liberties; the structure and function of American political institutions; and the behavior of American citizens in the political process.</p> <p>By the end of the trimester students should have a basic understanding of the structure and function of American government as well as an increased ability to critically reflect on the degree to which our institutions, processes, and actions have met our nation's intended goals, and to engage students in the civic life of an American citizen.</p>	Our 11th and 12th grade students will have a U.S. Government graduation requirement and this course can fulfill that requirement while meeting the state standards for Civics and Government. It will also allow students to earn college credit and help meet Buffalo High School's needs for our Minnesota Transfer Curriculum.	Passed U.S. History 10, or CIS U.S. History, and are in the top 50% of the class ranking	This may be determined after partnering with a college institution. There may be additional training / course work for our teachers to teach this course. Cost TBD	Pocket Constitutions (cost is roughly \$1 per constitution)
Hybrid										
11	Ben Wandmacher	CIS Auto Service and Maintenance - Hybrid	Tech Ed	10th, 11th, 12th	1/2 credit (1 trimester)	Same as current BHS course offered.	Shift the current CIS Automotive Service and Maintenance to a Hybrid class. The class would meet the first week to go over safety and classroom procedures. The students would then be able to sign up for "shop" time to do the assigned lab activity. When not signed up for "shop" time the students could work at school or at home on the google classroom assignments. This class meets more than the college course meets.	None	None	None
12	Cassie Mix	College Algebra - Hybrid	Math	10th, 11th, 12th	1 credit (2 trimesters)	This course is a hybrid option for students who have successfully completed Algebra 2 and want college credit for pre-calculus math. Topics include: graphs and functions; polynomial, radical, rational, exponential, logarithmic functions; equations, inequalities, systems of equations and inequalities; applications. Upon successful completion of the course, students who are eligible for college credit will earn 3 credits from St. Cloud State University. (See the CIS table for eligibility criteria).	College classes usually only meet 3 days a week. This format would fit the college model more closely.	Algebra 2	None	None
13	Joel Peterson	CIS Statistics - Hybrid	Math	11th, 12th	1 credit (2 trimesters)	This is a course modification. Converting CIS Statistics to an online hybrid class.	Hybrid option gives students flexibility in their schedule.		none	nothing new
14	Troy Holland	Jr./Sr. PE - Hybrid	Phy Ed	11th, 12th	1/2 credit (1 trimester)	Hybrid elect. PE class for upperclassman. 1 day a week in class, 4 days using HRM for mins. and online assignments on their own time outside of the building if transportation allows or in the building.	Many upperclassmen are getting credits online, we would like to find ways for our students to have another option to get a PE credit and have the opportunity to choose how they can remain active during that course period.	Pass 9th and 10th grade PE	N/A	Potentially purchase extra Polar Unite Heart Rate Monitor Watches
Bison Online										

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15	Sarah Rodenwald	Anatomy & Physiology A/B - Online	Science	10th, 11th, 12th	1 credit (2 trimesters)	<p>Anatomy and Physiology explores the structure and function of the human body. The course provides an overview of body organization, medical terminology, and the anatomy and physiology of cells and tissues. It covers the cardiovascular, immune, respiratory, digestive, and renal/urinary systems, along with common diseases and disorders affecting these systems. Trimester B builds on this foundation, focusing on the nervous, integumentary, musculoskeletal, endocrine, and reproductive systems, examining their structures, functions, and related health conditions.</p> <p>Nutrition and Wellness is a one-semester introductory course that explores the fundamentals of nutrition, health, and overall well-being. Students will examine the functions of nutrients, their sources, and how the body processes them, while learning to interpret food labels and dietary guidelines. The course covers the impact of nutrition on physical fitness, mental health, chronic illness, and life stages, as well as eating disorders and food allergies. Students will also gain practical knowledge in food safety, preparation, menu planning, and current trends in the food industry. Emphasis is placed on personal wellness, goal setting, and exploring career opportunities in the nutrition and wellness field. Through interactive lessons, assignments, and projects, students will build essential skills for maintaining a healthy lifestyle and preparing for future careers.</p>	Bison Online version of Anatomy and Physiology, but not offered for concurrent enrollment.	Biology	Included with Bison Online development	None
17	Aaron Johnson	Nutrition & Wellness - Online	Health	9th, 10th, 11th, 12th	1/2 credit (1 trimester)	<p>Unit 1: Principles of Nutrition Unit 2: Health, Wellness, and Fitness Unit 3: Food Management Unit 4: Careers in Nutrition and Wellness</p>	Additional elective option for Bison Online that is similar to BHS electives.	None	Included in Bison Online Development	None
18	Kelsey Ortmann	Exercise Science - Online	Phy Ed	10th, 11th, 12th	1/2 credit (1 trimester)	<p>Exercise Science introduces students to the fundamentals of exercise physiology and wellness. The course covers biomechanics, kinesiology, and the various body systems. Nutrition and physical activity are also discussed. Students will focus on physical assessment, fitness and biometric measurements, training principles, and exercise programs. The course also covers injury and illness management, and rehabilitation.</p>	Bison Online elective similar to CIS Exercise Science, but not for concurrent enrollment.	None	Included in development of Bison Online	None
16	Becky Karna & Craig Lachowitzer	Intro to Criminology - Online	Bus Ed	10th, 11th, 12th	1/2 credit (1 trimester)	<p>Introduction to Criminology - Online is a comprehensive one-semester course. This course examines the fundamental theories and concepts related to crime, deviance, and the criminal justice system. You will learn about the key theories and concepts surrounding crime, deviance, and the criminal justice system. Throughout the course, you will investigate various criminological theories, analyze the societal factors influencing crime, and examine contemporary issues in the field. You will also evaluate crime prevention strategies and their effectiveness in different contexts.</p> <p>Unit 1: Foundation of Criminology Unit 2: Theories of Crime and Deviance Unit 3: Advanced Criminological Theories Unit 4: Contemporary Issues in Criminology Unit 5: Crime Prevention Strategies</p>	Bison Online elective similar to BHS course Law and Order, but not the exact same standards.	None	Included in Bison Online Development	None
19	Becky Karna	Entrepreneurship - Online	Bus Ed	11th, 12th	1/2 credit (1 trimester)	<p>This course explores key marketing functions, including product planning, advertising, and the sales process. Students will examine financial statements, business structures, and the relationship between marketing and advertising. The course covers product design, marketing research, pricing strategies, and the role of economic theory in sales. Additionally, students will analyze advertising techniques, selling strategies, and career opportunities in marketing while developing professional skills and workplace ethics essential for success in the industry.</p> <p>Unit 1: The Entrepreneur and the Economy Unit 2: Marketing Fundamentals Unit 3: Managing Customers Unit 4: Production and Operations Management</p>	Non-concurrent enrollment course for Bison Online.	Intro to Business or Marketing	Included in development of Bison Online	None
20	Celest Thell	Child Development & Parenting - Online	FCS	9th, 10th, 11th, 12th	1/2 credit (1 trimester)	<p>This course covers child development, parenting, and essential parenting skills. Students will explore the roles and responsibilities of parents, effective communication with children, and key workplace skills like ethics and time management. The course examines parenting styles, trends, and their impact on child development, along with family planning strategies and parental responsibilities. Students will also review laws, programs, and organizations focused on child welfare. Additionally, the course highlights career opportunities in child care and development, emphasizing work habits and professional skills needed in the field.</p> <p>Unit 1: Parenting Basics Unit 2: Communication and Child Care Unit 3: Managing Time, Resources, and Technology</p>	Bison Online alternative to in-person child development courses	None	Included in development of Bison Online	None
21	Kristine Wiese	Music Appreciation - Online	Music	9th, 10th, 11th, 12th	1/2 credit (1 trimester)	<p>This trimester elective course is intended as a practical, hands-on guide to introduce you to the field of music appreciation. You'll first identify elements and patterns in music and learn to identify various elements of musical notation. Next, you'll explore the history and evolution of music from the Middle Ages through to the modern era. Then, you'll learn about the influence of music on society and culture. Finally, you'll learn of the various compositional and expressive devices and how to evaluate a concert.</p> <p>Unit 1: Intro to Music Appreciation Unit 2: Music of the Ancient World Unit 3: Music of the Middle Ages and Renaissance Unit 4: Baroque and Classical Music Unit 5: Romantic and 20th Century Music</p>	Music Elective for full time Bison Online students to earn their Fine Arts credit	None	Included in the development of Bison Online	None
22	Kurt Konsela	Digital and Interactive Media - Online	Tech Ed	10th, 11th, 12th	1/2 credit (1 trimester)	<p>This one-term course provides a hands-on guide to digital and interactive media, covering a range of topics including graphic design, digital photography, digital printing, and multimedia. Students will explore careers, training, and emerging technologies in digital media, as well as learn about audio and video production. The course also addresses copyright laws and fair use.</p> <p>Unit 1: Careers and Emerging Technologies Unit 2: Graphics and Photography Unit 3: Design Elements and Principles Unit 4: Storing Images, Copyright Laws, and Printing</p>	Tech Ed Elective for Bison Online	None	Included in development of Bison Online	None
23	Kurt Konsela	Principles of Architecture and Construction - Online	Tech Ed	9th, 10th, 11th, 12th	1/2 credit (1 trimester)	<p>The Principles of Architecture and Construction introduces foundational concepts in architecture and construction. Students will learn about architectural drawings, materials, structures, loads, and equipment, along with career opportunities and workplace ethics in the field. Finally, students will explore computer use in design, project management, and safety, legal, and communication requirements in architecture and construction.</p> <p>Unit 1: Intro to Architecture and Construction Unit 2: Careers in Architecture and Construction Unit 3: Workplace Skills</p>	Tech Ed elective for Bison Online	None	Included in development of Bison Online	None

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24	Kurt Konsela	Principles of Drafting and Design - Online	Tech Ed	9th, 10th, 11th, 12th	1/2 credit (1 trimester)	<p>This course covers the fundamental concepts of drafting and design, types of drafting tools, drafting conventions, sketching and drawing techniques, types of views and projections, and basic computer-aided design and drafting operations.</p> <p>Unit 1: Drafting Methods and Tools Unit 2: Drafting Conventions Unit 3: Sketching and Drawing Techniques Unit 4: Projections, Developments, and Intersections</p>	Tech Ed elective for Bison Online	None	Included in development of Bison Online	None
25	Kurt Konsela	Principles of Engineering & Technology - Online	Tech Ed	9th, 10th, 11th, 12th	1/2 credit (1 trimester)	<p>This course explores engineering careers, systems, and technologies, covering design, problem-solving, energy, manufacturing, and structural systems. Students will examine biotechnology, construction, and ethical issues while developing teamwork, communication, and employability skills. The course also highlights engineering's impact on society and the environment.</p> <p>Unit 1: Introduction to Engineering and Technology Unit 2: Career Exploration Unit 3: Engineering Systems and Technologies</p>	Tech Ed elective for Bison Online	None	Included in development of Bison Online	None