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These courses are offered through the University of California Curriculum Integration (UCCI) to ensure that students are prepared for success in college and career. They allow students to gain workplace skills and insights while also fulfilling freshman admission requirements for UC and the California state universities. All UCCI courses combine the academic rigor of UC's "a-g" subject requirement with the technically demanding content of career technical education (CTE). Each course integrates the content of one "a-g" subject with that of one CTE career pathway.

Health Science and Medical Technology		
Course Title	**Grade**	**A-G Subject / Career pathway**
Applied Medical English	11, 12	English ("b") / Therapeutic Services
Dynamic Literacy of Patient Care	11	English ("b") / Patient Care
Mental Health Matters	9	English ("b") / Mental & Behavioral Health
Public Health: Reading & writing your way to a healthier world	12	English ("b") / Public & Community Health
US History and Public Health	11	U.S. History ("a") / Support Services
Finance and Business		
Course Title	**Grade**	**A-G Subject / Career pathway**
Business Algebra	9	Mathematics - Algebra I ("c") / Business Financial Management
Business Algebra II	10-12	Mathematics - Algebra II ("c") / Business Financial Management
Business Statistics	10-12	Mathematics - Statistics ("c") / Business Financial Management
Information and Communication Technologies		
Course Title	**Grade**	**A-G Subject / Career pathway**
Algebra 2 for the 21st Century	9-12	Mathematics - Algebra 2 ("c") / Programming & Systems Development
Writing Games for Social Change	9	English ("b")/Games & Simulation
Marketing, Sales and Service		
Course Title	**Grade**	**A-G Subject / Career pathway**
Integrated Marketing and English	10-12	English ("b") / Professional Sales and Marketing
Le Français 3 et Marketing	11	Language Other Than English (French) ("e") / Professional Sales and Marketing
Engineering and Design		
Course Title	**Grade**	**A-G Subject / Career pathway**
Chemistry & Environmental Engineering: Water we doing	9-12	Laboratory Science - Chemistry ("d") / Environmental Engineering
Engineering Geometry with Physics	9, 10	Mathematics - Geometry ("c") / Engineering Design

Business Algebra (Recommended for advanced 7th and 8th and 9th grade)

This Business Algebra course provides students with an understanding of: linear equations and inequalities, systems of equations and inequalities, exponents and polynomials, quadratic functions, and rational equations. Students will use the business principles of revenue, cost, and profit as the context for learning the mathematical content. Using this integrated instructional approach provides students with a practical understanding of fundamental business and finance issues while providing an engaging context to master the foundational Algebra I concepts.

This is an integrated business course utilizing Algebra 1 concepts in a business environment. The course is designed to prepare students for the natural progression to higher math courses, specifically Geometry and Algebra II, and could be used for students for whom a course rich in business skills and applications will increase their likelihood of success. The applications throughout the course allow students to see the connection of mathematical concepts and real-world application in a business environment. Also, this course could be part of a Business Academy as the introduction course in a sequence of business and mathematical courses.

Algebra 2 for the 21st Century

This course is designed for students who are passionate about applications of mathematics and have a desire for a career in computer programming. In this course, Algebra 2 standards are combined with the game, simulation, and software development concepts into an integrated secondary curriculum that meets both Algebra 2 course requirements and CTE standards. Students will research, analyze, and modify existing program code and develop their own program code that will integrate major Algebra 2 concepts in each of the six units; linear functions, quadratic functions, polynomial function, rational expressions and equations, exponential and logarithmic functions, and systems of equations. Through the unit programming projects, students understand and master the mathematics and programming code necessary in the development of games such as Pong and Angry Birds and the simulation of fractal images based on iterating rational functions. Students will also explore some ethical issues around the rapid development of technology and its impact on society.

This is an integrated course utilizing Algebra 2 concepts in a programming environment. The course is designed to prepare students for the natural progression to higher math courses, through a course rich in connections to programming projects that will generate interest in the math and increase students' likelihood of success. The applications throughout the course allow students to see the connection between mathematical concepts and those of programming as they apply to the

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Information and Communication Technology (ICT) industry sector. Also, this course could be part of a ICT Academy as an intermediate course in a sequence of ICT and mathematical courses.

Two Courses in One 20 Credits in Total (Recommended for advanced 8th and 9th grade)
Engineering Geometry with Physics – Math (Fulfill UC Geometry Requirement)
Engineering Geometry with Physics – Science (Fulfill UC Physics Requirement)

Have you ever thought that math and Geometry were boring? Do you often wonder why science and math are important? Do you like to create solutions to problems in a fun and challenging way? If you answered yes to any of these questions, Engineering Geometry with Physics is for you!

In this course students learn how Geometry and Physics have played vital roles in the development and innovation of the world around them through engineering discoveries like catapults, roller coasters, musical instruments, and more. Upon completion of this course, students receive credit in both UC "c" mathematics and UC "d" lab science areas. Students explore the world of engineering and its connected career fields and disciplines.

This is an integrated course utilizing physics concepts and math concepts in an engineering environment. The course is designed to generate interest in physics and math through engineering projects in a way that increases students' likelihood of success. The applications throughout the course allow students to see the connection between physics and math concepts and engineering design and architectural and structuring engineering. Also, this course could be part of an Engineering Academy in a sequence of Engineering courses.

Integrated Marketing and English (Recommended for advanced 10th grade and above)

The aim of this course, Integrated Marketing and English, is to prepare students with foundational knowledge in marketing within the framework of year three or four high school English, so that they will be equipped for the challenges in the workplace and in their pursuit of post-secondary education. Whether a student is interested in exploring the field of Marketing as a possible career field or to become an informed consumer, this course provides an opportunity for students to fulfill their English course requirement while pursuing a career pathway and developing critical reading, writing, speaking, and thinking skills geared towards the business field.

This interdisciplinary Marketing and English course will provide opportunities for students to study the English language within the context of business. For example, by examining and analyzing print, TV, and web advertisements, students will be able to viscerally and experientially understand tone, style, and diction. Through critical literacy, they will comprehend how marketing and advertising professionals manipulate structural and rhetorical devices to influence and sway consumers perception of products and influence buying decisions through advertisements, branding, business communications, and marketing materials. To develop an understanding of how the study of practical and academic English is translated into the practice and language of business, students will read and analyze a variety of texts - essays, journal articles, advertisements, blogs, plays, business communications, and full-length literary works, including *Tortilla Curtain*, *Ogilvy on Advertising,* and *Fast Food Nation*. Students will refine their skills in rhetorical reading, writing, and speaking, and polish their presentation skills, so that they can successfully market not only the businesses that they may work for but also themselves. While most of the reading materials will be on marketing-related topics, instruction will be directed towards developing students reading, writing, speaking, and critical thinking skills as they relate to the business marketing model. Students will write persuasive, narrative, and expository essays, argument analysis, and complete research projects within a business framework. Further, students will have many opportunities to polish their presentation skills in order to successfully market both their businesses and themselves. This course emphasizes diversity and innovation through gathering, synthesizing, questioning, and forming articulate data-driven opinions. Students read often and with an open mind, write often and clearly with coherent thought and form, and articulate their reading and writing in presentations appropriately targeting both academic and real-world audiences.

Writing Games for Social Change

Writing Games for Social Change is a college preparatory **grade 9 English course integrated with the Games and Simulation pathway standards of the Information and Communication Technology sector**. Students engage in close reading of complex texts and technical documents to analyze and synthesize the design and development of games and simulations. This course provides a rigorous pathway for students to learn relevant technical knowledge and skills that prepare them for further education and career opportunities in the field of Information and Communication Technologies.

This is an integrated course integrating English Language Arts content with a focus on Information and Communication Technologies (ICT) specifically. The course is designed to help students develop a thorough understanding of English Language Arts through a course rich in connections to Games and Simulation that will generate interest in English and increase student success. The applications throughout the course allow students to see the connection of Games and

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Simulation skills and content as they apply to a career in ICT. This course could be part of an ICT academy in a sequence of ICT courses.

Mental Health Matters

Mental Health Matters: Building Awareness Through Various Modes of Communication is a one year college and career preparatory English course for 9th graders that integrates English with the ***Mental and Behavioral Health Pathway*** within the Health Science and Medical Technology CTE sector. Through reading, writing, speaking, and listening students will explore mental and behavioral health disorders, teen challenges, disorder-related violence, and disparities in the mental health care system. Throughout the course students will conduct self-generated research related to each thematic unit, utilize the writing process to effectively communicate information and ideas using industry-specific language, analyze and justify personal perspectives regarding mental and behavioral health issues, and effectively use current media to inform and persuade multiple audiences for different purposes. By the end of the course students will have gained an awareness regarding issues in mental and behavioral health and developed into advocates for such issues.

This is an integrated course integrating English content with a focus on Health Science and Medical Technology -- Mental Health specifically. The course is designed to help students develop a thorough understanding of 9th grade English through a course rich in connections to Health Science that will generate interest in English and increase student success. The applications throughout the course allow students to make connections between English learning and content structures as they apply to a career in Mental Health. This course could be part of a Health Science and Medical Technology academy in a sequence of English Language Arts courses.

Applied Medical English (Recommended for advanced 10th grade and above)

Applied Medical English is an English course for 11th or 12th graders with integrated CTE standards as related to the Health Science and Medical Technology pathways. Content will include the ELA Common Core Standards integrated in conjunction with health ethics, cultures of society, family, individual, health care, epidemiology, and careers while also focusing on communication as it relates to our global world. Students will be exposed to a rigorous upper graduate English course while learning the career technical education focus of medical pathways.

This is an integrated health science course utilizing English concepts in a health science and medical environment. The course is designed to prepare students for the natural progression to university-level English courses. The applications throughout the course allow students to see the connection of English concepts and real-world application in a health care environment. Also, this course could be part of a Health Science and Medical Technology Academy as an advanced course in a sequence of English and health science courses.

The Dynamic Literacy of Patient Care (Recommended for advanced 10th grade and above)

This 11th grade English course aligns with the HSMT career pathway of Patient Care and will develop the many facets of the Health Science and Medical Technology CTE sector through the reading of fiction and expository text, various writing assignments with an emphasis on revision, and opportunities to make presentations. The course cultivates informed citizens in regards to the field of Patient Care by having them delve deeper into the areas of Communications, Ethics, Wellness, Cultural Diversity, Preventative Care, and Mental Health, with a culminating project that includes research in careers and a portfolio encompassing technology, interview skills, and a resume.

This is an integrated course integrating English content with a focus on Health Science and Medical Technology -- Patient Care specifically. The course is designed to help students develop a thorough understanding of 11th grade English through a course rich in connections to Health Science that will generate interest in English and increase student success. The applications throughout the course allow students to make connections between English learning and content structures as they apply to a career in Patient Care. This course could be part of a Health Science and Medical Technology academy in a sequence of English Language Arts courses.

Public Health: Read/Write to Healthy World

Public Health: Reading and Writing Your Way to a Healthier World is a college preparatory grade 12 English course integrated with Health Science and Medical Technology CTE standards, specifically the Public and Community Health pathway. In this course, students will gain proficiency in the skills emphasized in the ELA Common Core State Standards through the examination of public healthcare programs and services, related literature and technical documents, and relevant technology. This course provides a rigorous pathway to the field of Health Science through the application of critical thinking, project-based learning, and twenty-first century communication skills.

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This is an integrated course integrating English content with a focus on Health Science and Medical Technology -- Public and Community Health specifically. The course is designed to help students develop a thorough understanding of 12th grade English through a course rich in connections to Health Science that will generate interest in English and increase student success. The applications throughout the course allow students to make connections between English learning and content structures as they apply to a career in Patient Care. This course could be part of a Health Science and Medical Technology academy in a sequence of English Language Arts courses.

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