

Curriculum Committee Meeting

Monday, January 9, 2017 6:40 PM

Curriculum Conference Room in Central Office, 4 Vision Boulevard, Somers, CT 06071

1. Curriculum Committee
 1. New Course at SHS: Honors Biology
 2. Finalizing course designation into levels (SHS)

Course Proposal Form

Date:

Proposed Title: Honors Biology

Content Area: Biology

Semester(s):1 & 2

(a) What need(s) does this course address?

A preparation course for students who intend to take AP/ECE UCONN Biology. In addition, it will provide an opportunity to students who wish to experience an honors level Biology course.

(b) How was the need identified? What data was considered?

Upon review of the last three years of AP/ECE UCONN it was determined that several key units that were required for the AP/ECE UCONN were missing from the college level Biology class. The current Biology course does not prepare students for AP/ECE UCONN Biology, because it is based on the State standards and is different from the course-work required for AP/ECE UCONN Biology. This honors Biology course will be designed to be more in depth and detailed to prepare students for taking the AP/ECE UCONN Biology their Junior or senior year. In an effort to address this issue, units including a plant unit, extended information on biochemistry, an ecology unit and a unit on cell communication will added to address the rigorous content of the AP/ECE UCONN Biology course. In addition, activities that support independent practice and self motivation will be embedded into the honors level course. As this is the major focus in the AP/ECE UCONN course, skills leading to independent learning, working at a faster pace and adding material are needed to be successful in this course. This class will provide in-depth exploration of concepts of theory and practice including their relationship to real world situations and problems. **Who was involved in determining the need?**

AP/ECE UCONN Biology teacher other Biology teachers and the high school principal

(c) Who designed the course?

AP/ECE UCONN Biology teacher (Karen Legg)

(d) What implications does this course have on staffing, other curricular areas, and/or space?

None

(e) What special background, if any, would the teacher need to have to teach this elective successfully?

The certification to teach Biology.

(f) This course is designed for: (circle any or all choices)

Freshmen Sophomore Juniors Seniors
Middle School

(g) What prerequisites must the student fulfill to take this course?

A B+ or higher in Integrated Science freshman year and science teacher recommendation. **Insert curriculum standards this course will address:** Next Generation Science Standards: Structure and Properties of Matter, Structure and Function, Matter and Energy in Organisms and Ecosystems, Interdependent Relationships in Ecosystems, Inheritance and Variation of Traits, Natural Selection and Evolution.

(h) How will student learning be assessed?

Laboratory work, Quizzes, Writing assignments, projects, in class questions, homework and self designed inquiry lab.

(i) What instructional resources are necessary to teach the course? List all books, software, equipment, and materials with rationale and cost.

Free on line Biology book: Kimball Biology-no cost

(Attach minutes from team meetings in which the course was developed and a budget worksheet.)

Not applicable, this is an extension of the regular sophomore Biology course and is replacing one regular Biology course next year. The idea was discussed in an AP meeting with the principal.

Course Level Worksheet
Year: 2017-2018
Department: Science

Academic	College Preparatory	Honors	AP and/or ECE
<ul style="list-style-type: none"> • 611: Botany • 632: Zoology • 616: Survey in Forensics 	<ul style="list-style-type: none"> • 600: Integrated Science • 623: Biology • 612: Marine Science • 606: Anatomy and Physiology • 627: Chemistry • 631: Microbiology • 614: Science and Law 	<ul style="list-style-type: none"> • 628: Honors Physics • 628: Honors Chemistry • 651 Honors Biology 	<ul style="list-style-type: none"> • 629: AP Chemistry • 626: AP UCONN ECE Biology

Course Level Worksheet
 Year: 2017-2018
 Department: Social Studies

Academic	College Preparatory	Honors	AP and/or ECE
<p style="text-align: center;">*Current Affairs</p>	<p style="text-align: center;"> *World History *US History/Civics 10 *US History/Civics 11 *Psychology *Philosophy *Sociology *World Between the Wars *Ancient History *Medieval History *Principles of Law *Trial Techniques </p>		<p style="text-align: center;">*AP/ECE US History</p>

Course Level-World Language

Year: 2017-2018

<p>361-French 1B 363-French 2 365-French 3 367-French 4</p>	<p>Academic</p>
<p>352-Spanish 1A 353-Spanish 1B 355-Spanish 2 357-Spanish 3 359-Spanish 4</p>	<p>College Preparatory</p>
<p>362-Honors French 2 364-Honors French 3 366-Honors French 4 368-Honors French 5</p>	<p>Honors</p>
<p>389-Honors Spanish 5 358-Honors Spanish 4 356-Honors Spanish 3 354-Honors Spanish 2</p>	<p>AP</p>

Course Level Worksheet
Year: 2017-18
Department: Technology Engineering Education

Academic	College Preparatory	Honors	AP and/or ECE
<ul style="list-style-type: none"> ● World of Technology ● Manufacturing 1 - Woods ● Manufacturing 2 - Metals ● Digital Photography ● Welding 	<ul style="list-style-type: none"> ● Graphic Design 1 ● Graphic Design 2 ● Architectural Design ● Advanced Manufacturing ● Scientific Principles of Technology ● Robotics ● Technology Seminar 	<ul style="list-style-type: none"> ● Engineering Graphics 1 with solidworks ● Engineering Graphics 2 with manufacturing ● Research & Development ● Graphic Design 3 	

Course Level Worksheet
Year: 2017-2018
Department: Business

Academic	College Preparatory	Honors	AP and/or ECE
	<ul style="list-style-type: none"> • 221: Introduction to Business • 203: Computer Applications 1: Personal Finance • 204: Computer Applications 2: Integrated • 226: Accounting 1 • 227: Accounting 2 • 232: Business Law 1 • 233: Business Law 2 • 210: Entrepreneurship • 211: Marketing • 933: SHS Yearbook Team • 228: Effective Leadership • Independent Study 		

Course Level Worksheet
Year: 2017-18
Department: Art

Academic	College Preparatory	Honors	AP and/or ECE
<ul style="list-style-type: none"> ● Introduction to Art and Design ● Computer Art ● Computer Animation ● Printmaking ● Ceramics 1 ● Sculpture 1 ● Drawing and Painting 1 	<ul style="list-style-type: none"> ● Independent Study ● Drawing and Painting 2 ● Sculpture 2 ● Ceramics 2 	<ul style="list-style-type: none"> ● Honors Art ● Advanced Drawing and Painting/Portfolio 	<ul style="list-style-type: none"> ● AP Studio Art

Course Level-PE/Health

Year: 2017-2018

AP	Honors	College Preparatory	Academic
			<ul style="list-style-type: none">• 9/10 PE/Health Individual• 9/10 PE/Health Team• 11/12 PE Elect• 11/12 Health

Course Level-Music

Year: 2016-2017

	Academic	<ul style="list-style-type: none"> • Band • Chorus • Music in Society • Music Theory 	College Preparatory
	Honors	<ul style="list-style-type: none"> • Honors Choir 	Honors
	AP	<ul style="list-style-type: none"> • Fundamentals/Ear Training I ECE (2017-2018) 	AP

Course Level Worksheet
Year: 2017-2018
Department: Math

Academic	College Preparatory	Honors	AP and/or ECE
<ul style="list-style-type: none"> • 441: Topics in Algebra 1 • 440: Topics in Geometry • 447: Topics in Algebra 2 • 431: Consumer Math • 343: SAT Prep - Math 	<ul style="list-style-type: none"> • 425: Algebra 1 • 426: Geometry • 428: Algebra 2 • 414: Precalculus • 412: Probability and Statistics • 413: Trigonometry 	<ul style="list-style-type: none"> • 427: Honors Geometry • 429: Honors Algebra 2 • 416: Honors Precalculus • 415: Honors Calculus 	<ul style="list-style-type: none"> • 456: AP Calculus • 475: AP Statistics

Course Level Worksheet
 Year: 2017-2018
 Department: English

Academic	College Preparatory	Honors	AP and/or ECE
<ul style="list-style-type: none"> • English 11 • English 12 • SAT Prep 	<ul style="list-style-type: none"> • CP English 9 • CP English 10 • CP English 11 • CP English 12 • Creative Writing • Drama 	<ul style="list-style-type: none"> • Honors English 9 • Honors English 10 • Honors English 11 • Honors Speech and Debate 	<ul style="list-style-type: none"> • AP Composition and Literature/ UConn ECE 1011- Writing through Literature- English 12

Course Level-SPED

Year: 2017-2018

AP	Honors	College Preparatory	Academic
			<ul style="list-style-type: none">• Healthy Living• Resource Study Skills• Work Education Seminar

Course Level Careers

Year: 2017-2018

AP	Honors	College Preparatory	Academic • Career Connections