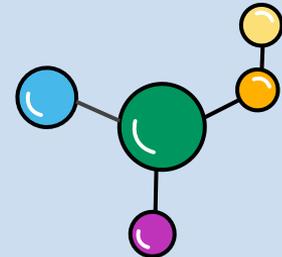
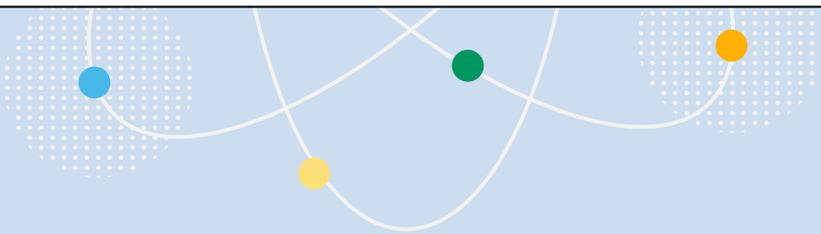
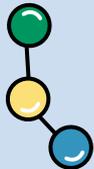
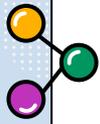


SCIENCE COURSE SELECTION:
Which science course(s) should I take next year?





Things to consider

01

What is my current science course?
How am I performing in this course?

02

What is my math ability? What math class am I currently in and how am I doing in it?

03

What are my interests? Do I desire a future in science or do any courses pique my interest?

04

Do I have the prerequisites for the course I want to take?

Current Biology Students

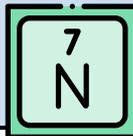
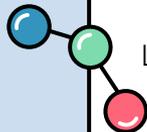


IPC

This course is an introductory course to both physics & chemistry.

Recommended if:

Less than 80% in Algebra 1 and/or Biology



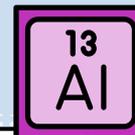
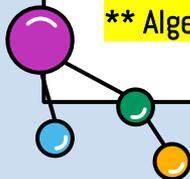
Chemistry

This course is a general study of the fundamentals of chemistry.

Recommended if:

Greater than 80% in Biology and Algebra 1

**** Algebra 1 & Biology prereq**



KAP

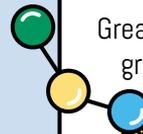
Chemistry

This course explores the topics covered in Academic Chemistry in greater depth and with more complex mathematical calculations.

Recommended if:

Greater than 80% in KAP Biology and greater than 85% in Algebra 1**

**** Algebra 1 & Biology prereq**



Current IPC Students



Chemistry

This course is a general study of the fundamentals of chemistry.

Recommended if:

Greater than 80% in Algebra 1 and planning on Algebra II enrollment next year**

**** Algebra 1 & Biology credit is required**



Aquatic Science

This course is a field study course, with a focus on freshwater and saltwater ecosystems.

Recommended if:

Less than 80% in Algebra 1

**** Biology and IPC or Chemistry credit prereq**

Current Chemistry Students

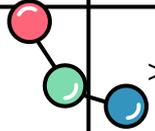
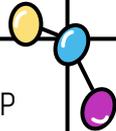
 Environmental Systems	 Aquatic Science	 Physics	 Forensics	 Anatomy & Physiology	 Earth Systems Science
<p>Environmental Systems is a general study of the inter-relationships between people and the natural world. Topics of study include land and resource use, biodiversity, sustainability, human impact and social responsibility.</p> <p>Recommended if: <80% in Chemistry</p> <p>**Biology and IPC or Chemistry credit prereq</p>	<p>This course is a field study course, with a focus on freshwater and saltwater ecosystems.</p> <p>Recommended if: <80% in Chemistry</p> <p>**Biology and IPC or Chemistry credit prereq</p>	<p>Physics is a general study of physical science. Concepts are developed conceptually and are supported with mathematical calculations throughout the course.</p> <p>Recommended if: >80% in Chemistry</p> <p>**Algebra 1, Geometry, Chemistry credit prereq</p>	<p>This course uses a structured and scientific approach to the investigation of crimes. Students collect and analyze evidence through case studies and simulated crime scenes.</p> <p>Recommended if: >80% in Chemistry</p> <p>**Biology, Chemistry credit prereq</p>	<p>Anatomy and Physiology is the study of human body systems for students who are interested in a career in health occupations.</p> <p>Recommended if: >80% in Chemistry</p> <p>**Biology & Chemistry credit prereq</p>	<p>Earth Systems Science is the study of how systems interact through time to produce landscapes, climate, and resources.</p> <p>Recommended if: <80% in Chemistry</p> <p>**Biology and IPC or Chemistry, Algebra 1 credit prereq</p>

Current KAP Chemistry Students

 AP Physics 1	 Physics	 AP Chemistry	AP/DC Level Sciences 	Science Elective Courses 
<p>This is an algebra-based, college-level physics course that explores topics including Newtonian mechanics; work, energy and power; mechanical waves and sound; and introduces simple circuits.</p> <p>Recommended if: >85% in KAP Chemistry and KAP Math course</p> <p>**Algebra 1, Algebra 2, Geometry, Chemistry prereq</p>	<p>Physics is a general study of physical science. Concepts are developed conceptually and are supported with mathematical calculations throughout the course.</p> <p>Recommended if: <85% in KAP Chemistry</p> <p>**Algebra 1, Geometry, Chemistry credit prereq</p>	<p>In this college-level chemistry course, students explore the conceptual and quantitative aspects of chemistry through the development of critical thinking skills.</p> <p>Recommended if: >90% in KAP Chemistry and Algebra II</p> <p>**Algebra 2, Chemistry prereq</p>	<p>AP Biology</p> <p>AP Environmental Science</p> <p>Dual Credit Anatomy</p> <p>Dual Credit Biology (NON SCIENCE MAJORS)</p> <p>Dual Credit Chemistry (NON SCIENCE MAJORS)</p> <p>Recommended if: >80% in KAP Biology and Chemistry</p> <p>** Biology Chemistry prereq</p>	<p>Forensic Science</p> <p>Anatomy & Physiology</p> <p>**Biology, Chemistry prereq</p> <p>Aquatic Science</p> <p>Environmental Systems</p> <p>Earth Systems</p>



Current Upper Level Science Students

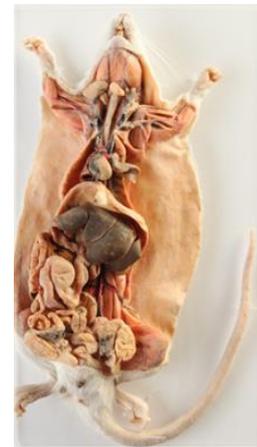
AP/DC Life Sciences	AP/DC Physical Sciences	Other Science Electives
<p>AP Biology</p> <p>AP Environmental Science</p> <p>Dual Credit Anatomy I & II</p> <p>Dual Credit Biology for non science majors</p>	<p>AP Chemistry</p> <p>AP Physics II</p> <p>Dual Credit Chemistry for non science majors</p>	<p>Forensic Science</p> <p>Anatomy & Physiology</p> <p>Earth Systems Science</p> <p>Aquatic Science</p> <p>Environmental Systems</p>
<p>Recommended if: >80% in KAP Biology and Chemistry</p> 	<p>Recommended if: >90% in KAP Chemistry & Algebra II (AP Chem) >80% in AP Physics I (AP Phys 2)</p> 	<p>Check for information and prereqs in the previous slides</p>

Dual Credit Anatomy & Physiology

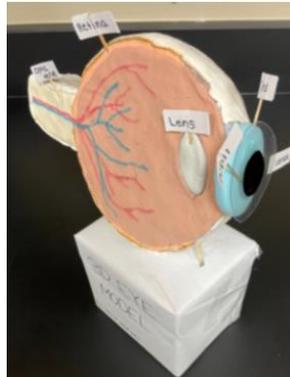
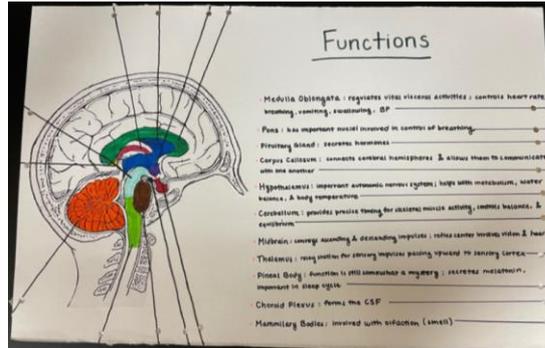
Dual Credit Anatomy and Physiology is a detailed study of the structures and functions of the human body including the cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, immune, lymphatic, respiratory, digestive, urinary, and reproductive. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. In class you will learn about anatomical structures using a variety of methods including models and dissections. DC A&P I is taught first semester and DC A&P II is taught second semester.

Anatomy and Physiology is a prerequisite for nursing, radiology, medical assistant certification, and is the foundational knowledge needed for a career in healthcare. Get ahead by taking this challenging course at the college level while in high school, where you can get daily interaction with your instructor

***Prerequisite = Biology & Chemistry & HCC Admissions**



Anatomy & Physiology



Anatomy and physiology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will also learn the mechanisms for maintaining homeostasis within the human body.

This course is designed to help students to develop a strong foundation for pursuing healthcare careers.

***Prerequisite = Biology & Chemistry**

Aquatic Science



Would you like to have your own aquarium for a year? Aquatic Science is a hands-on, project, field-research based class that covers everything from local ponds to the deep ocean and anything else to do with water. Join us!

***Prerequisite = Biology and IPC or Chemistry**

Forensic Science



This course uses a structured and scientific approach to the investigation of crimes. Students collect and analyze evidence through case studies and simulated crime scenes.

***Prerequisite = Biology & Chemistry**

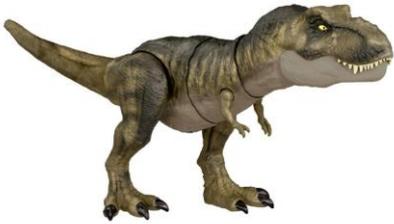
Environmental Systems



*Prerequisite = Biology and IPC or Chemistry



Earth Systems Science



Earth Systems Science is the study of how systems interact through time to produce landscapes, climate, and resources. Explore the geologic history of individual dynamic systems through the flow of energy and matter, their current states, and how these systems affect and are affected by human use

***Prerequisite = Biology and IPC or Chemistry**

Dual Credit Biology I & II

Biology I & II are designed to fulfill the life and physical sciences component of the core curriculum for **non-science majors**, such as:

- Liberal Arts
- Business
- Education
- Social Sciences
- Humanities
- Fine Arts

Earn 6 credit hours

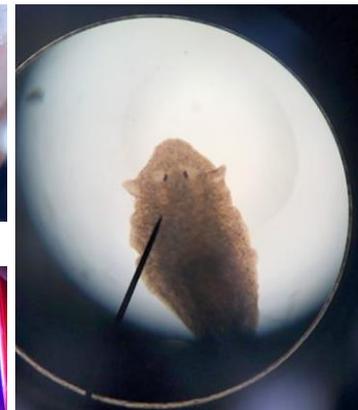
based on the passing grade in the course. GPA on a 4.5 scale. Transferable to colleges & universities in Texas.

BIOL I – provides a survey of biological principles with emphasis on humans, including chemistry of life, cells, structure, function, and reproduction

BIOL II – provides a survey of biological principles with emphasis on humans, evolution, ecology, plant and animal diversity, and physiology

Dive into biology in a way that's relevant to YOU!
Experience hands-on learning that connects to everyday life!

**** Prerequisites: Biology, Chemistry, and HCC admission**



AP Biology

Why Choose AP Biology?

•Challenging and Rewarding

Prepare yourself for college-level science with a deeper understanding of biology concepts.

•Hands-On Learning

Experience lab work and real-world applications of biological principles.

•College Credit Opportunity

Earn college credits by passing the AP exam, saving you time and money in the future.

•Strengthen Your College Application

AP Biology shows colleges you're ready for rigorous coursework and passionate about science.

•Explore Exciting Topics

From biochemistry to ecosystems, dive into fascinating biological concepts that are everywhere in our world.

**** Prerequisites: Biology & Chemistry**

At Tompkins HS, historically, 93-98% of students who take the AP Exam, earn a score of **3, 4, or 5!** 😊💕💕

