Science Recommendations For Course Selection

These are <u>RECOMMENDATIONS ONLY</u> and are based on student data collected over the years.

Please see the course catalog for descriptions of all courses.

Tompkins High School Recommended Science Course Selections 2023-2024

Foundation High School Program Graduation Plan requires:

Biology and one credit from IPC or Chemistry or Physics; and one additional science course = 3 science credits

Foundation High School Program + Endorsement Graduation Plan requires:

Biology and one credit from IPC, Chemistry, or Physics; and 2 additional/advanced science courses = 4 science credits

<u>Foundation High School Program + STEM Endorsement Graduation Plan requires:</u>

Biology, Chemistry, Physics, and 1-2 additional/advanced science courses = 4-5 science credits (see Course Catalog for sequences)

Note: Grade values assigned are only recommendations, due to open enrollment. Check the Course Catalog for prerequisites.

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Current Science Course	Recommended 2023-2024 Science Course			
Academic Biology	ACA Chemistry • ≥80% in Alg I and ACA Bio Integrated Physics and Chemistry (IPC) • Must take IPC if failed Alg I and/or Bio (Prerequisites for Chem) • <80% in Alg I/or ACA Bio KAP Chemistry • >95% in ACA Bio and Alg I (>90% in Geom) • Should be enrolled in KAP Geom, (Not Aca Geom)			
KAP Biology	 KAP Chemistry ≥80% in KAP Bio ≥80% in KAP Geom or ≥90% in ACA Geom or ≥95% in Alg I Concurrent enrollment in Alg II & KAP Chem is strongly recommended ACA Chemistry ≥80% in Alg I Integrated Physics and Chemistry (IPC) <80% in Alg I Must take IPC if failed Alg I and/or Bio (Prerequisites for Chem) 			
	Not yet earned credit for Biology	Earned credit for Biology		
Integrated Physics and Chemistry (IPC)	ACA Biology	ACA Chemistry • ≥80% in Alg I or ≥75% in Geom Aquatic Science or Environmental Systems • <80% in Alg I		
Physics	ACA Biology ACA Physics (preferred, if student will enrol	 ≥80% in Alg I or ≥75% in Geom Aquatic Science or Environmental Systems <80% in Alg I 		

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Recommended enrollment in Pre-Cal (KAP Pre-Cal preferred) ACA Physics (recommend if score criteria above is not met) AP Chem Must have had KAP Chem and Alg II - >90% in KAP Chem and Alg II AP Biology - ≥80% in KAP Bio (or >95% in ACA Bio) and ≥80% in Chem - Chem is prerequisite AP Environmental Science - ≥80% in KAP Bio (or ≥90% in ACA Bio) and ≥80% in Chem **See below for additional 3" & 4" year elective courses 3" & 4" year and/or Electives; - Aquatic Science: Biology and IPC, Chem or Phys are prerequisites - Advanced Animal Science: Sio and Chem are prerequisites - Advanced Animal Science: Chem or IPC are prerequisites - Advanced Animal Science: Sio and Chem, plus an additional science course which may be taken concurrently. Dual Credit Anatomy & Physiology - ≥80% in KAP Bio (or >95% in ACA Bio) and ≥80% in Chem - Chem is prerequisite - AP Courses: AP Courses: AP Environmental Science - ≥80% in KAP Bio (or >95% in ACA Bio) and ≥80% in Chem - Chem is prerequisite - AP Chemistry - Must have had KAP Chem and Alg II - >90% in KAP Bio (or ≥90% in ACA Bio) and ≥80% in Chem - AP Physics I - ≥90% in KAP Chem and Alg II - >90% in KAP Bio (or ≥90% in ACA Bio) and ≥80% in Chem - ≥ 20% in KAP Chem and Alg II - >90% in KAP Bio (or ≥90% in ACA Bio) and ≥80% in Chem - ≥ 20% in KAP Chem and Alg II - >90% in KAP Bio (or ≥90% in ACA Bio) and ≥80% in Chem - ≥ 20% in KAP Chem and Alg II - >90% in KAP Chem and Alg II - >90% in ACADemic Physics AP Physics I Recommended ≥75% in AP Physics I Recommended ≥75% in AP Physics I Other science courses: Anatomy & Physiology, Forensic Science, Advanced Animal Science*, Environmental Systems, Aquatic Science, Earth and Space Science Not yet earned credit for Chemistry Earned credit for Chemistry		AP Physics 1		
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Academic Chemistry • No Science				
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Aquatic Science, Advanced Animal Science* • Aquatic Science	Aquatic Science,	Advanced Animal Science*	•	
Environmental • Environmental Systems			•	
Systems, Forensic • Forensic Science	-			
Science, Anatomy & • ≥80% in Bio and Chem	-			
Physiology Anatomy & Physiology	Physiology		Anatomy & Physiology	
• ≥80% in Bio and Chem			• ≥80% in Bio and Chem	
Advanced Animal Science*			Advanced Animal Science*	
Earth and Space Science				

^{*}Students must consider CTE prerequisites: Algebra I and Geometry; Biology and IPC or Chemistry; at least one of the following Ag courses: Principles of Ag, Livestock Production, Small Animal Management, Wildlife and Fisheries, or Equine Science