

*Richard Woods, Georgia's School Superintendent*  
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**Fourth Science Options**

**2021-2022**

**Updated 1.6.22**

The following courses count towards satisfying the fourth science requirement and a CTAE pathway completion requirement and **have been approved** by the Board of Regents as a fourth science. (Only high school CTAE courses listed below are approved.\*)

<b>Course Number</b>	<b>Course Name</b>	<b>CTAE Pathway</b>
21.45700	Appropriate and Alternative Energy Technologies	Energy
21.45100	Energy and Power Technology	Energy
25.56900	Applications of Biotechnology	Health Science
25.57000	Essentials of Biotechnology	Health Science
25.44000	Essentials of Healthcare <i>A Student who earns 1 unit of credit for this course shall also receive 1 unit of credit for Human Anatomy and Physiology (course number 26.07300).</i>	Health Science
25.44600	Sports Medicine	Health Science
20.41400	Food for Life	Human Services
20.41810	Food Science	Human Services
03.45100	Forest Science	Agriculture, Food, and Natural Resources
01.46100	General Horticulture and Plant Science	Agriculture, Food, and Natural Resources
03.41100	Natural Resources Management	Agriculture, Food, and Natural Resources
02.42100	Animal Science Technology/Biotechnology	Agriculture, Food, and Natural Resources
02.44100	Plant Science and Biotechnology	Agriculture, Food, and Natural Resources
02.46200	Poultry Science	Agriculture, Food, and Natural Resources
21.45300	Advanced AC and DC Circuits	Science, Technology, Engineering, and Mathematics
11.01600	Advanced Placement Computer Science	Information Technology
11.01700	International Baccalaureate Computer Science, Year One	Information Technology
11.01710	International Baccalaureate Computer Science, Year Two	Information Technology
11.01900	Advanced Placement Computer Science Principles	Information Technology
11.47100	Computer Science Principles	Information Technology
11.47200	Programming, Games, Apps and Society	Information Technology
11.42500	Web Development	Information Technology
11.42700	Embedded Computing	Information Technology
11.42900	Game Design: Animation and Simulation	Information Technology
28.01910	Aerospace Science: Science of Flight	Government and Public Administration
43.45200	Forensic Science and Criminal Investigations	Law, Public Safety, Corrections and Security

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The following courses count towards satisfying the fourth science requirement for graduation and admission to a Georgia four-year college or university. All these courses **have been approved** by the Board of Regents as a fourth science.

Course Number	Course Name
26.01200	Biology I
26.01300	Biology II
26.01400	Advanced Placement Biology
26.01500	Genetics
26.01800	International Baccalaureate Biology, Year One
26.01900	International Baccalaureate Biology, Year Two
26.02000	International Baccalaureate Sports, Exercise & Health Year One
26.02100	International Baccalaureate Sports, Exercise & Health Year Two
26.03100	Botany
26.05100	Microbiology
26.06100	Ecology
26.06110	Environmental Science
26.06200	Advanced Placement Environmental Science
26.06300	International Baccalaureate Environmental Systems, Year One
26.06310	International Baccalaureate Environmental Systems, Year Two
26.06400	Advanced Genetics/DNA Research
26.06500	Epidemiology
26.07100	Zoology
26.07200	Entomology
26.07300	Human Anatomy and Physiology
40.01100	Physical Science
40.02100	Astronomy
40.04100	Meteorology
40.05100	Chemistry I
40.05200	Chemistry II
40.05300	Advanced Placement Chemistry
40.05500	International Baccalaureate Chemistry, Year One
40.05600	International Baccalaureate Chemistry, Year Two
40.05700	Organic Chemistry ( <i>Post AP Chemistry only</i> )
40.05800	Biochemistry ( <i>Post AP Chemistry or Biology only</i> )
40.05900	Materials Chemistry ( <i>Post AP Chemistry only</i> )
40.06300	Geology
40.06400	Earth Systems
40.07100	Oceanography
40.08100	Physics I
40.08200	Physics II
40.08310	Advanced Placement Physics 1
40.08320	Advanced Placement Physics 2
40.08410	Advanced Placement Physics C: Mechanics

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Course Number	Course Name
40.08420	Advanced Placement Physics C: Electricity and Magnetism
40.08500	International Baccalaureate Physics, Year One
40.08600	International Baccalaureate Physics, Year Two
40.08700	Environmental Physics ( <i>Post AP Physics only</i> )
40.08800	Special Topics in Modern Physics ( <i>Post AP Physics only</i> )
40.08900	Advanced Physics Principles/Robotics ( <i>Post AP Physics only</i> )
40.09100	Advanced Scientific Internship ( <i>Post AP Science</i> )
40.09230	Scientific Research III
40.09240	Scientific Research IV
40.09300	Forensic Science
40.09400	Chemical & Material Science Engineering ( <i>Post AP Chemistry only</i> )
40.09500	International Baccalaureate Design Technology, Year One
40.09600	International Baccalaureate Design Technology, Year Two
40.09700	International Baccalaureate Marine Science, Year One
40.09710	International Baccalaureate Marine Science, Year Two

The following courses count towards satisfying the fourth science requirement but **are not** recognized as a fourth science by the Board of Regents. (Only the high school CTAE courses listed below are approved.\*)

Course Number	Course Name
02.45100	Commercial Fishing, Management and Fisheries Science <i>A Student who earns 1 unit of credit for this course shall also receive 1 unit of credit for Oceanography (course number 40.07100).</i>
02.47500	Biotechnology (AG-BT)
21.45400	Digital Electronics
25.56400	Emergency & Disaster Preparedness
26.06600	Advanced Placement Research, Life Sciences
26.06700	Advanced Placement Seminar, Life Sciences
26.06800	International Baccalaureate Theory of Knowledge, Life Sciences, Year One
26.06900	International Baccalaureate Theory of Knowledge, Life Sciences, Year Two
40.06500	Fundamentals of Geospatial Technology
40.06600	Applications of Geospatial Technology
40.07110	Advanced Placement Research, Physical Science
40.07120	Advanced Placement Seminar, Physical Science
40.07130	International Baccalaureate Theory of Knowledge, Physical Science, Year One
40.07140	International Baccalaureate Theory of Knowledge, Physical Science, Year Two
40.09210	Scientific Research I
40.09220	Scientific Research II
47.46610	Aviation Meteorology

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\*Dual Enrollment (DE)

For degree level dual enrollment courses, remember that you must search the Gafutures site found here: [Dual Enrollment Course Directory \(gafutures.org\)](http://gafutures.org).

Degree level course numbers beginning with 26 and 40 that contain a letter, are also approved as fourth science options.

CTAE dual enrollment courses aligned to one of the high school CTAE courses approved to count as the 4<sup>th</sup> science credit **CANNOT** be used to meet the 4<sup>th</sup> science high school graduation requirement. Only high school CTAE courses have been approved as 4<sup>th</sup> sciences except for one course. See the exception below.

The **ONLY EXCEPTION** to this is the dual enrollment course ALHS1011 identified in the Gafutures site as 25.0A024 and 25.44000. It is approved to meet the 4<sup>th</sup> science requirement. This course has the following language along with the course title in Gafutures, "This course meets 4<sup>th</sup> science requirements for high school."

For additional guidance on dual enrollment, visit [Dual Enrollment Program - GaDOE](#).