

# State Law Regarding Embedded Courses

Georgia Department of Education

## 20-2-159.3. Academic core standards to be embedded in career, technical, and agricultural education courses



Richard Woods,  
Georgia's School Superintendent  
*"Educating Georgia's Future"*  
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- (a) The competencies and curricula established for career, technical, and agricultural education courses pursuant to Code Section 20-2-140 shall include embedded standards in academic core subject areas, as appropriate. In establishing such competencies and curricula, the state board shall work to ensure that the coursework meets postsecondary requirements for acceptance of credit for such coursework at the postsecondary level. Such courses shall be taught by a highly qualified teacher in the academic content and trained or experienced in contextualized learning using project based methods; by a highly qualified career, technical, and agricultural education teacher who has completed a state-approved training program to strengthen academic content and has passed a state-approved exam for demonstrating mastery of academic content; or by a team made up of a highly qualified teacher in the academic content and a highly qualified career, technical, and agricultural education teacher working together to teach the course.
  - (b) Local school systems and individual charter schools may develop and implement career, technical, and agricultural courses with embedded standards in academic core subjects areas, including, but not limited to, English, language arts, science, social studies, and mathematics.
  - (c) For an academic core subject area for which an end-of-course assessment has been adopted pursuant to Code Section 20-2-281, students shall be given the opportunity to take such end-of-course assessment upon completion of the career, technical, and agricultural education course that includes embedded standards in such academic core subject area, unless such student has already passed such end-of-course assessment.
- Georgia Department of Education
- (Code 1981, 20-2-159.3, enacted by Ga. L. 2011, p. 635, 5/HB 186.)

## 20-2-159.3. Academic core standards to be embedded in career, technical, and agricultural education courses (continued)



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- (d) Students who successfully complete a course in career, technical, and agricultural education that includes embedded standards in academic core subject areas, as adopted or approved by the state board, shall receive course credit for both the career, technical, and agricultural education course as well as for the academic core coursework embedded in such course.
- (e) The guidelines shall limit the number of academic credits earned through career, technical, and agricultural education courses for any student to three credits and shall ensure acceptance of such credits for purposes of admission into a postsecondary institution. Further, such a credit shall count only once toward high school diploma requirements unless the course requires expanded time to cover the academic and career, technical, and agricultural education content found in both the academic and the career, technical, and agricultural education course.
- (Code 1981, 20-2-159.3, enacted by Ga. L. 2011, p. 635, 5/HB 186.)

# Guidelines for Georgia State Board of Education Rule

**160-5-1-.15 AWARDING UNITS OF CREDIT AND ACCEPTANCE OF TRANSFER  
CREDIT AND/OR GRADES.**



Richard Woods,  
Georgia's School Superintendent  
*"Educating Georgia's Future"*  
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## 2(d): Awarding Units of Credit for Courses of Career, Technical and Agricultural Education Study with Embedded Academic Core Standards

- 1. Local boards of education shall award course credit for the Career, Technical and Agricultural Education (CTAE) course and course credit for the associated academic core course to students who successfully complete a course or course sequence in CTAE study that includes all standards from an academic core subject as adopted by the State Board of Education embedded in the CTAE course.
- 2. A CTAE course with embedded academic core standards must include all academic core standards of the associated academic core subject.
- 3. A student shall not earn more than three units of credit for academic core courses by completing CTAE courses that include embedded standards from an academic core subject.



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## 2(d): Awarding Units of Credit for Courses of Career, Technical and Agricultural Education Study with Embedded Academic Core Standards (continued)

- 4. Local boards of education shall administer the appropriate End of Course Test (EOCT) to a student taking a CTAE course with embedded academic core courses of an area for which an EOCT has been adopted unless the student has already passed such EOCT.
- 5. CTAE courses that include embedded standards from an academic core subject area will be identified in State Board of Education Rule 160-4-2-.20 *List of State-Funded K-8 Subjects and 9-12 Courses for Students Entering Ninth Grade in 2008 and Subsequent Years*. Currently, there are no CTAE courses that include embedded standards from an academic core subject area.
- 6. Local school districts are encouraged to submit CTAE courses with embedded academic core standards to be approved by the State Board of Education through the state course submission process using the following link to Course Nomination Form DE 0287 - Local School System Course Request Form for Rule 160-4-2-.20 for the list of state-funded K-8 subjects and 9-12 courses as found on the following GaDOE website.

# Fourth Science

Georgia Department of Education

# 4<sup>th</sup> Science Updates



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Georgia's School Superintendent  
"Educating Georgia's Future"  
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2012-2014

Course Number	Course Name	CTAE Pathway	Approved as a 4th Science for graduation	Approved as a 4th Science by USG	HOPE	Not approved in 2015-2016
1.461	General Horticulture and Plant Science	Plant Science/Horticulture	X	X	X	
2.421	Animal Science Technology/Biotechnology	Agniscience	X	X	X	
2.422	Equine Science	Other GPS Agriculture Courses (9-12)	X	X	X	X
2.441	Plant Science and Biotechnology	Agniscience	X	X	X	
20.414	Food for Life	Nutrition & Food Science	X	X	X	
20.4171	Food & Nutrition Through the Lifespan	Nutrition & Food Science	X	X	X	
20.4181	Food Science	Nutrition & Food Science	X	X	X	
21.451	Energy and Power Technology	Energy Systems	X	X	X	
21.457	Appropriate and Alternative Energy Technologies	Energy Systems	X	X	X	
25.44	Essentials of Healthcare	Health Science	X	X	X	
25.446	Sports Medicine	Health Science	X	X	X	
25.568	Introduction to Biotechnology	Biotechnology Research and Development	X	X	X	X
25.569	Applications of Biotechnology	Biotechnology Research and Development	X	X	X	
25.57	Essentials of Biotechnology	Biotechnology Research and Development	X	X	X	
11.016	Advanced Placement Computer Science	Information Technology	X	X	X	
2.424	Veterinary Science	Veterinary Science	X		X	X
2.475	Biotechnology	Other GPS Agriculture Courses (9-12)	X		X	pending
3.411	Natural Resources Management	Other GPS Agriculture Courses (9-12)	X		X	pending
3.451	Forest Science	Forestry/Natural Resources	X		X	pending
3.453	Wildlife Management	Agriculture, Food, and Natural Resources	X		X	pending
21.452	Foundations of Electronics	Electronics	X		X	X

2015-2016

Course Number	Course Name	CTAE Cluster	Approved as a 4th Science for graduation	Approved as a 4th Science by USG	HOPE
2.471	Animal Science Technology/Biotechnology	Agriculture, Food, and Natural Resources	X	X	X
21.457	Appropriate and Alternative Energy Technologies	Energy	X	X	X
21.451	Energy and Power Technologies	Energy	X	X	X
25.569	Applications of Biotechnology	Health Science	X	X	X
25.57	Essentials of Biotechnology	Health Science	X	X	X
25.44	Essentials of Healthcare	Health Science	X	X	X
25.446	Sports Medicine	Health Science	X	X	X
20.414	Food for Life	Human Services	X	X	X
20.4181	Food Science	Human Services	X	X	X
20.4171	Food & Nutrition Through the Lifespan	Nutrition & Food Science	X	X	X
3.451	Forest Science	Agriculture, Food, and Natural Resources	X	X	X
1.461	General Horticulture and Plant Science	Agriculture, Food, and Natural Resources	X	X	X
3.411	Natural Resources Management	Agriculture, Food, and Natural Resources	X	X	X
2.441	Plant Science and Biotechnology	Agriculture, Food, and Natural Resources	X	X	X
21.453	Advanced AC and DC Circuits	Science, Technology, Engineering, & Mathematics	X	X	X
11.016	Advanced Placement Computer Science	Information Technology	X	X	X
11.017	International Baccalaureate Computer Science, Year One	Information Technology	X	X	X
11.0171	International Baccalaureate Computer Science, Year Two	Information Technology	X	X	X
11.471	Computer Science Principles	Information Technology	X	X	X
11.472	Programming, Games, Apps and Society	Information Technology	X	X	X
21.454	Digital Electronics	Science, Technology, Engineering, & Mathematics	X		X



# Georgia Power Energy Literacy and Workforce Development Training Georgia

- Counselor Training to be held at each of the three Spring Region Updates
- CTAE Directors will be asked to identify a counselor coordinator or an elementary counselor representative to attend this training
- Materials will be handed out and lunch will be provided
- Registration information in the CTAE Directors packets
- Please follow the directions and send the registration form via email to the contacts listed on the form no later than February 20, 2015