



Core Academic Career and Technical Education (CTE) Courses 16-17

5/16/2016 PEMS Codes

Course	Credit Satisfied	PEIMS code	Required TEA Gateway training See list page 2	Certification Chapter 231
Business English	English	13011600	#1	Certification Link
Digital Electronics	Mathematics (3 rd Level)	13037600	#1 recommended	Certification Link
Engineering Mathematics	Mathematics (4 th Level)	13036700	#1 (see page 2) and #7	Certification Link
Financial Mathematics	Mathematics (3 rd Level)	13018000	#1 recommended	Certification Link
Mathematical Applications in Agriculture, Food, and Natural Resources	Mathematics (3 rd Level)	13001000	#1 and #10	Certification Link
Statistics and Risk Management	Mathematics (4 th Level)	13016900	#1 and #11	Certification Link
Advanced Animal Science	Science	13000700	#1 or #2 and #3	Certification Link
Advanced Biotechnology	Science	13036400	#1 or #2 and #4	Certification Link
Advanced Plant and Soil Science	Science	13002100	#1 or #2 and #5	Certification Link
Anatomy and Physiology	Science	13020600		Certification Link
Engineering Design and Problem Solving	Science	13037300	#1 or #2 and #6	Certification Link
Food Science	Science	13023000	#1 or #2 and #8	Certification Link
Forensic Science	Science	13029500	#1 or #2 and #9	Certification Link
Medical Microbiology	Science	13020700	#1 recommended	Certification Link
Pathophysiology	Science	13020800	#1 recommended	Certification Link
Principles of Engineering	Science	13037500	#1 recommended	Certification Link
Principles of Technology	Science	13037100	#1 recommended	Certification Link
Scientific Research and Design (I,II & III)	Science	13037200 (I) 13037210 (II) 13037220 (III)	#1 recommended	Certification Link



Texas Gateway Table

A total of 11 courses will apply to teachers teaching CTE classes. Classes below with online links are currently being offered, others are being developed currently by the TEA CTE department

The number in parenthesis () indicates how many parts to each course must be completed.

1. CTE 101 (1) http://www.texascourses.org/	7. Engineering Mathematics (6) http://www.texascourses.org/
2. Science Safety for High School (1) http://www.texascourses.org/	8. Food Science (6) http://www.texascourses.org/
3. Advanced Animal Science (4) http://www.texascourses.org/	9. Forensic Science (6) http://www.texascourses.org/
4. Advanced Biotechnology (6) http://www.texascourses.org/	10. Mathematical Applications in Agriculture, Food and Natural Resources (6) http://www.texascourses.org/
5. Advanced Plant and Soil Science (6) http://www.texascourses.org/	11. Statistics and Risk Management (6) http://www.texascourses.org/
6. Engineering Design and Problem Solving (6) http://www.texascourses.org/	

SPECIAL NOTE: when you open these link go to the bottom of the page when it opens and click on “View All Courses”.

Examples:

A teacher who is **not certified** in Science e.g. a teacher certified in *Agriculture, Food and Natural Resources* would need to take both (2.) Science Safety and (4.) Advanced Biotechnology to meet TEA’s requirement.

A teacher **who is certified** in Science e.g. a teacher certified in *Life Science* would need to take both (1.) CTE 101 and (4.) Advanced Biotechnology to meet TEA’s requirement.

A teacher **who is certified** in Math e.g. *Mathematics: Grade 7-12* would need to take both (1.) CTE 101 and (4.) Financial Mathematics to meet TEA’s requirement.