

Fourth Science Options

Approved Fourth Science Options

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.

Course Number	Course Name	CTAE Pathway
01.46100	General Horticulture and Plant Science	Plant Science/Horticulture
02.42100	Animal Science Technology/Biotechnology	Agriscience
02.42200	Equine Science	Other GPS Agriculture Courses (9-12)
02.44100	Plant Science and Biotechnology	Agriscience
20.41710	Food & Nutrition Through the Lifespan	Nutrition & Food Science
20.41810	Food Science	Nutrition & Food Science
21.45100	Energy and Power Technology	Energy Systems
21.45700	Appropriate and Alternative Energy Technologies	Energy Systems
25.56800	Introduction to Biotechnology	Biotechnology Research and Development

The following courses count towards satisfying the fourth science requirement and a CTAE pathway completion requirement but **are not** recognized as a fourth science by Board of Regents.

Course Number	Course Name	CTAE Pathway
02.42400	Veterinary Science	Veterinary Science
02.47500	Biotechnology	Other GPS Agriculture Courses (9-12)
03.41100	Natural Resources Management	Other GPS Agriculture Courses (9-12)
03.45100	Forest Science	Forestry/Natural Resources
03.45300	Wildlife Management	Forestry/Natural Resources

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Course Number	Course Name	CTAE Pathway
21.45200	Foundations of Electronics	Electronics
21.45300	Advanced AC and DC Circuits	Electronics
21.45400	Digital Electronics	Electronics
21.47200	Engineering Applications	Engineering
25.52100	Introduction to Healthcare Science	Seven Healthcare Pathways
25.52200	Application of Therapeutic Services	Therapeutic Services-Medical Services and Nursing
25.56200	Concept of Emergency Medicine	Therapeutic Services-Emergency Services
25.56400	Emergency and Disaster Preparedness	Therapeutic Services-Emergency Services
25.58000	Principles of Physical Medicine	Physical Medicine
25.58100	Concepts of Physical Medicine	Physical Medicine
25.58200	Rehabilitation in Physical Medicine	Physical Medicine
47.46600	Aviation Meteorology	Flight Operations

The following courses count towards satisfying the fourth science requirement.

Course Number	Course Name
26.01300	Biology II
26.01400	Advanced Placement Biology
26.01500	Genetics

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Course Number	Course Name
26.01800	International Baccalaureate Biology SL
26.01900	International Baccalaureate Biology HL
26.03100	Botany
26.05100	Microbiology
26.06100	Ecology
26.06110	Environmental Science
26.06200	Advance Placement Environmental Science
26.06400	Advance Genetics/DNA Research
26.07100	Zoology
26.07200	Entomology
26.07300	Human Anatomy and Physiology
26.06500	Epidemiology
40.02100	Astronomy
40.04100	Meteorology
40.05100	Chemistry I
40.05200	Chemistry II
40.05300	Advance Placement Chemistry
40.05500	International Baccalaureate Chemistry SL
40.05600	International Baccalaureate Chemistry HL
40.06300	Geology
40.06400	Earth Systems
40.07100	Oceanography

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Course Number	Course Name
40.08100	Physics I
40.08200	Physics II
40.08300	Advanced Placement Physics B
40.08410	Advanced Placement Physics C: Mechanics
40.08420	Advanced Placement Physics C: Electricity and Magnetism
40.08500	International Baccalaureate Physics SL
40.08600	International Baccalaureate Physics HL
40.08900	Advanced Physics Principles/Robotics
40.09100	Advanced Scientific Internship
40.09210 *	Scientific Research I
40.09220 *	Scientific Research II
40.09230	Scientific Research III
40.09240	Scientific Research IV
40.09300	Forensic Science
40.09400	Chemical & Material Science Engineering
40.09500	International Baccalaureate Design Technology SL
40.09600	International Baccalaureate Design Technology HL
11.01600	Advanced Placement Computer Science A

*Indicates the course has not been approved as a fourth science by the Board of Regents