

### Courses That Can Be Taught with Each Science Endorsement

Each table lists all the courses that can be taught by teachers that have a secondary science endorsement posted to their license in the Utah CACTUS System. Note: It is possible that a course has been given a different title within each LEA (district or school). However, every LEA course will be connected one of the CACTUS course codes in the table. Please check with LEA leadership to inquire about a course title that is not included on this list.

#### Biological Science Endorsement

CACTUS Course Code	CACTUS Course Title	Graduation Requirements
0802000001	A.P. Biology	H.S. Foundation Science
0802000010	Biology	H.S. Foundation Science
0802000012	Biology Elective	Science Elective
0802000015	IB Biology SL	H.S. Foundation Science
0802000016	IB Biology HL	H.S. Foundation Science
0802000020	Biology/Agriculture Science & Technology	H.S. Foundation Science
0802000030	Botany	Science Elective
0802000040	Genetics	Science Elective
0802000050	Human Biology	H.S. Foundation Science
0802000060	Human Physiology	Science Elective
0802000065	Anatomy and Physiology	Science Elective
0802000070	Wildlife Biology	Science Elective
0802000080	Zoology	Science Elective
08020013010	Biology with Lab Concurrent Enrollment	H.S. Foundation Science
08020013012	Biology Elective Concurrent Enrollment	Science Elective
08020013020	Biology/Agriculture Sci & Technology Concurrent Enrollment	H.S. Foundation Science
08020013030	Botany Concurrent Enrollment	Science Elective
08020013040	Genetics Concurrent Enrollment	Science Elective
08020013050	Human Biology Concurrent Enrollment	H.S. Foundation Science
08020013060	Human Physiology Concurrent Enrollment	Science Elective
08020013065	Anatomy and Physiology Concurrent Enrollment	Science Elective
08040000040	Marine Biology/Oceanography	Science Elective
08040013040	Marine Biology/Oceanography Concurrent Enrollment	Science Elective
08050000005	Science (Grade 6)	6 <sup>th</sup> Grade Foundation Sci.
08040000025	Investigation Science	General Elective
08050000015	Science Elective	General Elective
08050000050	Science Research	General Elective

#### Environmental Science Endorsement

CACTUS Course Code	CACTUS Course Title	Graduation Requirements
08040000001	A.P. Environmental Science	H.S. Foundation Science
08040000010	Earth Science (9-12)	H.S. Foundation Science
08040000020	Environmental Science	Science Elective
08040000060	IB Environmental Science & Societies SL	Science Elective
08040013020	Environmental Science CE (Concurrent Enrollment)	Science Elective
08040000050	Meteorology	Science Elective
08040013050	Meteorology CE (Concurrent Enrollment)	Science Elective
08050000050	Science Research	General Elective

## Earth Science Endorsement

CACTUS Course Code	CACTUS Course Title	Graduation Requirements
08040000010	Earth Science (9-12)	H.S. Foundation Science
08040000020	Environmental Science	Science Elective
08040000030	Geology	Science Elective
08040013030	Geology CE (Concurrent Enrollment)	Science Elective
08040000040	Marine Biology/Oceanography	Science Elective
08040013040	Marine Biology/Oceanography CE (Concurrent Enrollment)	Science Elective
08040000050	Meteorology	Science Elective
08040013050	Meteorology CE (Concurrent Enrollment)	Science Elective
08040000060	IB Environmental Science & Societies SL	Science Elective
08040013020	Environmental Science CE (Concurrent Enrollment)	Science Elective
08060000010	Astronomy	Science Elective
08060013010	Astronomy CE (Concurrent Enrollment)	Science Elective
08050000005	Science (Grade 6)	6 <sup>th</sup> Grade Foundation Sci.
08040000025	Investigation Science	General Elective
08050000015	Science Elective	General Elective

## Physical Science Endorsement

CACTUS Course Code	CACTUS Course Title	Graduation Requirements
08030000010	Chemistry (9-12)	H.S. Foundation Science
08060000020	Physics (10-12)	H.S. Foundation Science
08040000050	Meteorology	Science Elective
08040013050	Meteorology CE (Concurrent Enrollment)	Science Elective
08060000010	Astronomy	Science Elective
08060013010	Astronomy CE (Concurrent Enrollment)	Science Elective
08060000040	Aerospace	Science Elective
38010000211	Physics with Technology (CTE)* Also requires Physics with Tech CTE Endorsement	H.S. Foundation Science
08050000005	Science (Grade 6)	6 <sup>th</sup> Grade Foundation Sci.
08040000025	Investigation Science	General Elective
08050000015	Science Elective	General Elective

## Chemistry Endorsement

CACTUS Course Code	CACTUS Course Title	Graduation Requirements
08030000001	A.P. Chemistry	H.S. Foundation Science
08030000010	Chemistry (9-12)	H.S. Foundation Science
08030000012	Chemistry with Lab	H.S. Foundation Science
08030000015	IB Chemistry SL	H.S. Foundation Science
08030000016	IB Chemistry HL	H.S. Foundation Science
08030013010	Chemistry Elective CE (Concurrent Enrollment)	Science Elective
08030013012	Chemistry with Lab CE (Concurrent Enrollment)	H.S. Foundation Science
08040000025	Investigation Science	General Elective
08050000050	Science Research	General Elective

**Physics Endorsement**

CACTUS Course Code	CACTUS Course Title	Graduation Requirements
08060000001	A.P. Physics	H.S. Foundation Science
08060000020	Physics (9-12)	H.S. Foundation Science
08060000010	Astronomy	Science Elective
08060013010	Astronomy CE (Concurrent Enrollment)	Science Elective
08060000025	IB Physics SL	H.S. Foundation Science
08060000026	IB Physics HL	H.S. Foundation Science
08060013020	Physics with Lab CE (Concurrent Enrollment)	H.S. Foundation Science
08060013022	Physics no Lab CE (Concurrent Enrollment)	Science Elective
08060000050	Aeronautics	Science Elective
38010000211	Physics with Technology (CTE)* Also requires Physics with Tech CTE Endorsement	H.S. Foundation Science
08040000025	Investigation Science	General Elective
08050000050	Science Research	General Elective

**Middle Level Science Endorsement**

CACTUS Course Code	CACTUS Course Title	Graduation Requirements
08050000005	Science (Grade 6)	6 <sup>th</sup> Grade Foundation Sci.
08050000001	Integrated Science (Grade 7)	7 <sup>th</sup> Grade Foundation Sci.
08050000010	Integrated Science (Grade 8)	8 <sup>th</sup> Grade Foundation Sci.

**Integrated Science Endorsement** - This is a historical endorsement that was offered before the Middle Level Science endorsement and is no longer available for application. Teachers with the endorsement can teach these courses.

CACTUS Course Code	CACTUS Course Title	Graduation Requirements
08040000001	A.P. Environmental Science	H.S. Foundation Science
08040000010	Earth Science (9-12)	H.S. Foundation Science
08040000020	Environmental Science	Science Elective
08040013020	Environmental Science CE (Concurrent Enrollment)	Science Elective
08050000005	Science (Grade 6)	6 <sup>th</sup> Grade Foundation Sci.
08050000001	Integrated Science (Grade 7)	7 <sup>th</sup> Grade Foundation Sci.
08050000010	Integrated Science (Grade 8)	8 <sup>th</sup> Grade Foundation Sci.
08040000025	Investigation Science	General Elective
08050000015	Science Elective	General Elective