Step 1: Completing the Common Requirements of all Science Endorsements

All 7 science endorsements have two requirements that must be fulfilled despite the content specific area of the endorsement. Using an original transcript, please highlight the corresponding courses and place the course number into the box provided.

The following two courses must be complete in order for the application to be considered complete:

Common Coursework for Science Endorsements	
	Teaching Methods in Science
	Safety Certification

Step 2: Choosing a Content Specific Endorsement and Completing the Form

Using an original copy of your transcirpts, please highlight the corresponding courses and place the course number and institution abbreviation (if more than one) into each requirement box provided.

When there is one box, it signifies that one semester course is required.

When there are two boxes, it signifies that two semester courses (or one year) are required.

Praxis Exams:

Utah Passing Score (UPS)
Praxis score must be at or above the UPS to qualify

Interim Score (IS)
Praxis score must be at the currently accepted UPS at the time of endorsement application to qualify.

The following outlines the **minimum** requirements for each Content Specific Endorsement:

Cotent Specific Requirements for an Endorsement in **Biological Sciences**		
UPS: 149		Praxis Exam Biology: Content Knowledge (0235)
		General Biology OR General Zoology **and** General Botany
		Zoology
		Cell Biology or Microbiology
		Human Anatomy & Physiology
		Heredity / Genetics
		Ecology
		Chemistry
		Evolutionary Biology

Content Specific Requirements for an Endorsement in **Chemistry**

UPS: 151			Praxis Exam Chemistry: Content Knowledge (0265)
			Principles of inorganic chemistry
			Organic Chemistry
			One other course beyond principles and organic chemistry

Content Specific Requirements for an Endorsement in **Earth Science**

UPS: 153			Praxis Exam: Earth and Space Sciences Content Knowledge (0571)
			Geology (Physical geology, Hist. geology, Plate Tectonics, Rocks & Minerals)
			General Physics - **Must be sequential**
			Principles of inorganic chemistry - **Must be sequential**
			Astronomy
			Ecology
			Weather/Meteorology

Content Specific Requirements for an Endorsement in **Environmental Science**

UPS: 149			Praxis Exam: Biology Content Knowledge (0235)
			General Biology OR General Zoology **and** General Botany
			Zoology
			Botany
			Ecology
			Principles of inorganic chemistry - **Must be sequential**
			Evolutionary Biology
			Earth Systems Science (Oceanography, Meteorology, Climatology)
			Geology
			Statistics

For more information contact Shannon Buchanan, Secondary Science Specialist, shannon.buchanan@schools.utah.gov 801-538-7808

Content Specific Requirements for an Endorsement in **Physical Science**			
UPS: 150			Praxis Exam: Physical Science Content Knowledge (0481)
			Principles of inorganic chemistry - **Must be sequential**
			Advanced or Applied Chemistry
			General Physics - **Must be sequential**
			Advanced or Applied Physics
			Geology and/or Earth Science (Physical Geology, Hist. Geology, Plate Tectonics, Weather, Meteorology)

Content Specific Requirements for an Endorsement in **Physics**			
UPS: 136			Praxis Exam: Physics Content Knowledge (0245)
			General Physics - **Must be sequential**
			Modern Physics
			Math through introductory Calculus

The Middle Level Science endorsement is only available to educators who currenlty hold an endorsement in one of the above content specific areas.

Requirements for an Endorsement in **Middle Level Science**		
IS : 167		Praxis Exam: General Science Content Knowledge (0435)
		Completion of a Content Specific Science Endorsement Please indicate which endorsement you currently have : _____ Biological Sciences _____ Chemistry _____ Earth Science _____ Environmental Science _____ Physical Science _____ Physics

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Requirements for Science Core Teaching Assignments

7th and 8th Grade Science

The following boxes outline the core courses taught for junior high credit and the necessary requirements of that assignment.

Core Teaching Assignment	Teaching Requirements
Grade 7	Middle Level Science Endorsement
Grade 8	Middle School Level Endorsement

High School Science

The following boxes outline the core courses taught for high school credit and the necessary requirements of that assignment.

Core Teaching Assignment	Teaching Requirement
Earth Science	Earth Science Endorsement OR Environmental Science Endorsement
Biology	Biolgical Science Endorsement
Chemistry	Chemistry Endorsement OR Physical Science Endorsement
Physics	Physics Endorsement OR Physical Science Endorsement
AP Biology	Biolgocial Science Endorsement
AP Chemistry	Chemistry Endorsement
AP Physics	Physics Endorsement
AP Environmental Science	Environmental Science Endorsement

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