

After successful completion of Biology Science Elective Choices:

Forensic Science-Honors Credit Available

Environmental Science- College Credit Available

Human Anatomy & Physiology- College Credit Available

Chemistry- Honors Credit Available (Advanced Math Required)

Physics-Honors Credit Available (Advanced Math Required)

Earth Science

Science on the Screen

Zoology- Honors Credit Available

Animal Science-College Credit Available

Physical Science:

Physical Science is a course designed for 9th graders that seeks to introduce students to Chemistry and Physics. The first part of the course will focus on Chemistry, the science of matter; and the second part of the course will focus on Physics, the science of energy and energy transformations. During the introduction to Chemistry, students will become skilled in safe laboratory practice, and begin to understand the basic operations of scientific inquiry and reporting. After introducing students to theories and principles of chemical reactions, the course will focus on an introduction to Physics. Students will learn to apply Newton's Laws of Motion, distinguish between potential and kinetic energy, and study sound and light waves.

NCES Code	Course Number	Credit	Grade	Prerequisite	
		1.0	9	None	

Biology:

This course is an exciting look into the study of life sciences. Students will begin the year focused on life science at the cellular level and progress on to studying whole organisms and their interactions with the environment. This is a sophomore level class and will address the next generation science standards as adopted by the state of Oregon as well as compiling scientific inquiry and engineering work samples, in addition to required state electronic testing.

NCES Code	Course Number	Credit	Grade	Prerequisite
	LBCC- BIO 102	1.0	9-12	Physical Science or
				Teacher Approval

Animal Science:

This course is designed to introduce students to the livestock production industry. Students will study all forms of livestock including health care, feed management, reproduction, genetics, industry specifics, anatomy and physiology.

NCES Code	Course Number	Credit	Grade	Prerequisite
	LBCC- ANS 121	1.0	9-12	

				Completion of Biology				
				or Beginning Ag				
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Forensic Science:								
This course is designe	d to introduce students to the	focusing on	the use of so	ience as it applies to police				
work in order to solve	crimes, establish identities a	nd/or recreat	e events. We	e will discuss legal				
procedures, precedence, scientific study and techniques to solve crimes.								
NCES Code	Course Number	Credit	Grade	Prerequisite				
		1.0	10-12	Completion of Biolog				
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Human Anatomy 8	& Physiology:	, , , , , , , , , , , , , , , , , , , 						
	to introduce students to the st	udv of the hur	nan body stri	acture and function. Students				
will learn basic terms as	ssociated with the body and the	general orga	nization of bo	ody parts. Students will also				
investigate the delicate	balance between health and di	sease of the h	uman body. S	Students will participate in				
	vell as whole organism dissecti							
NCES Code	Course Number	Credit	Grade	Prerequisite				
	LBCC- BIO 103	1.0	10-12	Completion of Biolog				
Environmental Sci	ience:							
	ing look into the study of the	effects of hu	mans in the	environment and looking fo				
sustainable balance.	<i>g</i>							
NCES Code	Course Number	Credit	Grade	Prerequisite				
	WOU- BIO 101		10-12	Completion of Biolog				
	WOO BIO IOI	<u> </u>	10 12	Completion of Biolog				
70010000								
Zoology:				1 1 11				
This course is designed introduction to animal:	to introduce students to the manatomy, physiology, ecology a	ajor taxa of th	e anımai king	gdom and provides an				
NCES Code	Course Number	Credit	Grade	Prerequisite				
		1.0	10-12	Completion of Biolog				
Science on the Scr	een:							
	ing look into the connection	of film to scie	nce. Studen	ts will view movies and				
reflect the science behind the films through written reflections and unit projects.								
NCES Code	Course Number	Credit	Grade	Prerequisite				

Earth Science:

This course studies the scientific origins of the earth and looks at its place in the universe. We will cover the history of the Earth, rocks and minerals, Earth's natural resources, weather and climate systems, and how the Earth fits into our solar system. It is a lab based course with possible field trips to visit local

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9-12

geological sites in Oregon. This is meant as a course for juniors and seniors needing additional science credit, but sophomores may be allowed with permission from the instructor.

NCES Code	Course Number	Credit	Grade	Prerequisite
		1.0	10-12	None

Chemistry:

Chemistry is the science of matter and is intended as a junior or senior level course in high school. Before entering Chemistry, students should have completed a course in Physical Science unless participating in the accelerated Science program, and have a working knowledge of simple mathematic and algebraic functions. The course will begin by reviewing the sub-atomic and atomic structures of matter. From atoms, students will advance towards a working understanding of molecules, compounds and solutions. Once the foundation has been laid, students will develop an understanding of various types and properties of chemical reactions. Students should expect to complete an independent research project in the last quarter of the year if they choose to receive honor credit.

NCES Code	Course Number	Credit	Grade	Prerequisite
		1.0	10-12	Completion of Biology
				& co-enrolled or
	j			completion of Algebra
				2

Physics:

Physics is an upper-level science course that focuses on various forms of energy and energy transformations. Students should have a strong knowledge of algebra and trigonometry before entering the course, and should have completed a course in Physical Science unless participating in the accelerated Science program.

Much of Physics is lab-focused and hands-on, and students will be involved in designing, performing and analyzing scientific experiments. Over the course of year, students will develop conceptual and mathematical understandings of motion, vibrations and wave phenomena, optics, and electromagnetism. Students should expect to complete an independent research project in the last quarter of the year if they would like to receive honors credit.

NCES Code	Course Number	Credit	Grade	Prerequisite
		1.0	10-12	Completion of Biology
				& co-enrolled or
				completion of Algebra
				2