

2017-2018 EARTH & SPACE (Earth Systems) SYLLABUS

Ms. St.Hilaire - Room # 17, 935-8200 ext 2117, Email - dsthilaire@fernridge.k12.or.us

Elective Course Course Length: Semester Pre-requisite: Physical Science

Course Description: This introductory course about Earth’s Systems includes investigations regarding the role Physics and Chemistry play in driving and influencing Earth’s Systems. Study includes Thermodynamic influences over Earth’s internal and external systems: reasons for seasons; Movement of Earth’s gas, liquid and solids and resulting temperature and pressure patterns that drive clouds, weather, tectonic plate recycling, ocean currents and global climates. Students will select a research topic to investigate and teach/present to the class.

Academic, Behavior & Safety Guidelines

In addition to EHS Handbook behavioral and attendance guidelines, you are expected to:

ACADEMIC GUIDELINES:

- 1. Required Materials:** Writing supplies, calculator and assignments.
- 2. Late work:** Late work is not accepted. Work is due on the due date.
- 3. Make-up work:** Is accepted within one week of an excused absence. See me for missing assignments during lunch!
- 4. Academic Integrity:** While collaborative learning is strongly encouraged, each student must produce their own written answers for all class, home and assessment work including collaborative work.
- 5. Testing:** Communication by anyone (including non-testing students) during examination is prohibited and results in a zero until all tests are collected and the teacher clears the class. Communication is assumed to be cheating unless the teacher can undoubtedly determine it was not. Non-cheating communication results in behavioral consequences.
- 6. Extra Help:** See me with questions regarding content, assignments, grades or other concerns during lunch from 12:05 - 12:25. I am also available by appointment between 8:00-8:15 am or 3:20-3:45 pm.

BEHAVIOR GUIDELINES:

- 1. Respect:** Engage courteously in classroom discussions, raising your hand to participate. Listen quietly to your classmates and instructor as they ask questions or make statements.
- 2. Food and Drinks:** I provide filtered water for you; otherwise food and drinks are prohibited in class.
- 3. Electronics:** All electronic/communication/music devices must be off and put away prior to entering class and remain off at all times in the classroom, or be turned over to me for parental retrieval from the office.
- 4. Tardy: PRIOR** to the bell you MUST be quietly seated and working on the posted assignment and learning objectives, with completed homework ready for grading or you will be *marked tardy*. Three tardies result in detention, referral, parent contact and/or additional consequences.
- 5. Off Task Behaviors** and behaviors that interrupt teaching may result in the student making up time after the bell, during lunch, after school, parent contact and/or additional consequences.
- 6. Bathroom:** Students should use the bathroom between classes but are provided two passes per semester. If additional bathroom use is needed, each use will result in a Tardy.
- 7. Insubordination:** Insubordination is refusal to follow instructions and may result in a referral.

SAFETY:

- 1. Laboratory equipment** can be harmful to you, others and the facility if improperly used. Do not turn on or use equipment without the teacher’s implicit instructions and supervision. Students will be required to pass a safety quiz prior to using laboratory equipment. Please request additional guidance from me if you are unsure about how to safely operate equipment.
- 2. Fire Drill and Emergency** procedures must be followed at all times. During Drills we exit room 17 and walk west to the track. There we quietly line up single file until the building is cleared and we are returned to class.

Semester Concept Schedule:

Elements, PTE, Atoms & Ions
 Compounds vs Intermolecular forces
 Matter, Thermodynamics & Specific Heat
 Dynamic Earth: Earth’s Structure & Movement
 Mantle, Surface & Atmosphere
 Weather, Climate & Changes in Climate
 Hydrosphere
 Water Storage, Movement & its Effects,
 Oceans & their Currents
 Research, Power Point & Presentation

EARNED GRADES

FINAL PERCENTAGE	GRADE
97- 100	A+
93-96.9	A
90-92.9	A-
87-89.9	B+
83-86.9	B
80-82.9	B-
77-79.9	C+
73-76.9	C
70-72.9	C-
67-69.9	D+
63-66.9	D
60-62.9	D-
0-59.9	F

GRADING COMPONENT

PERCENT OF GRADE

Class Work & Participation (20%)
 Project & Presentation (40%)
 Quizzes (25%)
 Comprehensive Final (15%)

Incomplete (I), No Grade (NG), Pass/No Pass (P/NP) will be assigned only when prior arrangements have been made in accordance will school policv.

Saint's Abbreviated Bio:

In 1978 I left Maine to earn an AAS Architecture from Vermont followed by nine amazing years of practicing Architecture including work out of Boston designing hospitals to redesigning earthquake structural supports in an existing nuclear power plant to renovating historic buildings in Portsmouth NH. In '89 my professional path was redirected by the recession. I left Architecture, renovated my home and built furniture while attending Real Estate Appraisal classes enabling me to execute large land tract appraisals for NH State conservation easements and residential appraisals. In 1991 I moved to Blue River, Oregon to fight wildland forest fires for the US Forest Service (USFS). Subsequent USFS positions included reconstructing and replanting stream riparian zones to reestablish healthy plant and animal populations; Contract Inspector managing District Yew Tree Taxol harvests for cancer treatment; Dual-District Hydrology Technician locating and mapping district ephemeral streams, studying fish habitat and health and analyzing the chemistry and health of Wilderness lakes and streams; my final USFS position was as Wilderness Ranger in the Three Sisters Wilderness for the Willamette National Forest. During this period I earned my Basic EMT, volunteered for the McKenzie Bridge Fire Department and was employed as a Professional Ski Patroller at Hoodoo Ski Area. In 2001 I began dabbling in Chemistry and Biology at Lane Community College, then attended University of Oregon (UofO) where I worked in the Cuttlefish Lab while earning my BS Science Degree with minors in Biology & Chemistry. In 2004 I joined Oak Hill School teaching grades 6-12 sciences. In March of 2008 I earned my Master's in Education at Pacific University and joined Elmira High School.

I have also been published twice as a result of my research at two major universities. My work in the Tublitz Cuttlefish Lab focused on chromatophores and tissue regeneration. The peer reviewed paper is published at <http://jeb.biologists.org/content/214/20/3423.full.pdf+html>. While teaching at Oak Hill School I was accepted into the National Science Foundation's Research Experience for Teachers (RET) graduate program at UC Santa Barbara (UCSB). The research was two tiered and began in 2006 with an investigation of salt's effects on the interaction between lung surfactants and blood protein following severe lung injury. The second tier was delayed one year for health reasons and completed in 2008, immediately after joining EHS. This project is published at <http://www.mrl.ucsb.edu/education/ret-research-experience-teachers/debra-st-hilaire>.

Because my life's been packed with amazing personal and professional science experiences I am heavily armed with numerous examples for teaching. Relaying these examples gives students immediate and deep meaning to content, building interest and connection and making teaching so much fun!

I look forward to teaching your child and growing strong communication and collaboration with you toward your child's success. I am available to students during lunch and by appointment before and after school. I am also available for you during those time periods by appointment.

<u>M, Tu, Th, F Schedule</u>	<u>Fall Semester</u>	<u>Spring Semester</u>
Period 1: 8:25 - 9:16 a.m.	Physical Science	Physical Science
Period 2: 9:21 - 10:13 a.m.	Physical Science	Physical Science
Period 3: 10:18 - 11:08 a.m.	Physical Science	Prep
Period 4: 11:13 - 12:03 a.m.	Physical Science	Earth & Space
12:03 - 12:35 p.m.	Lunch	Lunch
Period 5: 12:40 - 1:30 p.m.	Physical Science	Physical Science
Period 6: 1:35 - 2:25 p.m.	Earth & Space	Physical Science
Period 7: 2:30 - 3:20 p.m.	Prep	Physical Science

(Wednesday and Assembly schedules vary)

I look forward to our year together!

Ms Saint

EFFECTIVE COMMUNICATION

EFFECTIVE COMMUNICATION between parents and teachers is the best way to enhance student success in the classroom. Please contact me with questions or concerns. The best way to reach me is at dsthilaire@fernridge.k12.or.us or by phone at 541-935-8200, ext.2117.

Student

Please complete this form to indicate that you have read and understand classroom and course expectations.

Student Name: _____, _____ Date _____ Period _____
Printed Signature

Parents/Guardians:

Please complete this form to facilitate ease of communication between us and to show that you have read and understand classroom and course expectations.

Name: _____, _____ Date _____
Printed Signature

Phone: _____ (h) _____ (c) E-mail _____

I look forward to an exciting and educational year.
Please contact me if you have any questions or concerns.

Have fun this semester-

Ms.Saint

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**The classroom policies contained in this course outline may change as needed.
The Fern Ridge School District is an equal opportunity educator and employee*