

# Ocean View Christian Academy- Earth Science

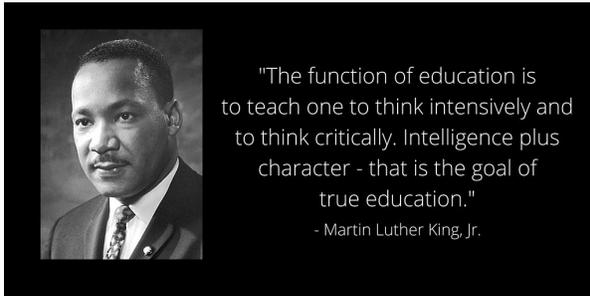
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Earth Science Office Hours: Mon-Fri by appointment

Textbook: *Earth Science by BJU Press, 5th Edition*

## I. Welcome to Ocean View Christian Academy



*Education is not about receiving a grade. My prayer for the students this year is that they can break free from the chains of performance. My goal as their teacher this year is to promote long-term flourishing & spiritual growth all while teaching them to master course material. When students master course material, grades will follow*

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*Romans 1:20 (NIV)* “For since the creation of the world God’s invisible qualities—his eternal power and divine nature—have been clearly seen, being understood from what has been made, so that people are without excuse”

### **OVCA Course Philosophy:**

Science is *knowledge of truths/facts* about the natural world around us. The study of science provides evidence for a powerful, Holy, and Sovereign Creator. The more we study science, the more we see God’s divine order of creation (*Psalm 19*).

*Genesis 1:1 (NIV)*- “In the beginning, God created the heavens and the Earth. Now the earth was formless and empty, darkness was over the surface of the deep, and the Spirit of God was hovering over the waters.

**Time:** “In the beginning...”

**Matter:** “...and the Earth...”

**Work:** “...God created...”

**Energy:** “...and the Spirit of God...”

**Space :** “...the heavens...”

**Motion:** “...was hovering...”

We can see that all aspects of the universe (time, matter, work, motion, space) can be found in the very first verse of the very first chapter of the Bible.

It is important that our students learn science to grow in their knowledge and understanding of who God is, while also navigating their curiosity of the world around them. By learning science, students

can apply truths to universal questions such as, “who am I?”, “Why am I here?”, “How did I get here”, and “how do I continue to believe in a creator when I am surrounded by facts?” Science will inevitably point to God. The Christian worldview allows you to use all evidence. Additionally, science may also lead students into endless opportunities for future careers, education, hobbies, etc.

Science says that we need at least 4 basic elements to survive. Jesus tells us in the Bible that he is in fact these four things:

- Water → ... If anyone is thirsty, let him come to Me and drink. “He who believes in Me, as the Scripture said, ‘From his innermost being will flow rivers of living water.’”....  
**John 7:37-39**
- Oxygen → And the LORD God formed man *of* the dust of the ground, and breathed into his nostrils the breath of life...” **Genesis 2:7**
- Food → Then Jesus declared, “I am the bread of life”..... **John 6:35**
- Light→ When Jesus spoke again to the people, he said, ‘I am the light of the world...’  
**John 8:12**

I am looking forward to getting to know each of you and providing you with a challenging, yet rewarding science experience this year.

## II. Basic Course Information

### Course Goal:

This course curriculum is selected to meet California NGSS Content and Performance State Standards. The goal of this class is to introduce basic biological concepts to students through the *Christian* perspective, along with appropriate levels of activities, labs, and assignments to make these concepts comprehensible.

### At-Home Learning Expectations:

- [Click Here](#) to review Online Etiquette for OVCA At-home Learning
- You will **submit all necessary assignments to Google Classroom under the appropriate assignment task**
  - [Click Here](#) to see **how to submit assignments to Google Classroom**
- All assignments will be **due by 8:00 a.m. the following Monday**
  - i.e: An assignment that is assigned on Thursday is due Monday at 8:00am
  - i.e: An assignment that is assigned on Monday is due the following Monday at 8:00 am
- Save all completed assignments on your computer/google drive
- You **do not** need to have a physical interactive notebook until we meet **in person**
  - If you choose to purchase the interactive notebook prior to in-person class, please do not bring your interactive notebook until we meet in-person

### Teacher Expectations:

- I will live and teach from the Christian perspective
- I will abide by OVCA’s statements and philosophies
- I will grade and give feedback to students in a timely manner
- I will communicate and update parents respectively
- I will be available for tutoring as my schedule permits me too

### Student Expectations:

- I will Follow OVCA student handbook guidelines
- I will follow classroom guidelines, policies, and procedures listed within the syllabus (III)
- I will respect my teacher, my classroom, myself, and my peers
- I will take responsibility for my own learning by seeking help when I need it
- I will be a reflective learner and listener

### Required Materials:

#### At-Home

- Earth Science Textbook (supplied)
- Internet Access
- Web camera: Don’t have one? [Click Here](#) to purchase one on Amazon

#### In-class

- Science Notebook/”Interactive Notebook” (3 or 5 subject notebook, *college ruled 8.5x 11 in*) →
- White Elmers glue
- Writing instruments (Pencil/pen/highlighters-4 colors)

#### Recommended (optional) Materials:

- Colored pencils
- Scissors

\* Students who do not have access to these materials may ask the teacher for help or assistance



## III. Tentative Course Outline

Course Outline Topics (Subject to change throughout the year):

Quarter	Unit	Chapter # & Name	Sub chapter
1	1.Introduction to Earth Science	1. The World of Earth Science	(A) Why Study Earth Science (B) A Christian Approach to Earth Science



		<b>2. Matter, Forces, And Energy</b>	(A) Matter (B) Forces and Matter (C) Energy and Matter (D) Composition of Matter
		<b>3. Maps and Mapping</b>	(A) Why Do We Use Maps (B) Types of Maps (C) Maps and GIS
		<b>2.The Restless Earth</b>	<b>4. Geology- THE Earth Speaks</b>
		<b>5. The Changing Earth</b>	(A) Observing the Evidence (B) The Old-Earth History (C) The young-Earth History
		<b>6. Earthquakes</b>	(A) Tectonic Forces (B) Faults and Joints (C) Earth Waves and Seismology (D) Effects of Earthquakes
	<b>2</b>		<b>7. Mountains and Hills</b>
		<b>8. Volcanoes and Volcanism</b>	(A) Fire Mountains (B) Classifying Volcanoes (C) Intrusive Volcanism
<b>3. Earth's Rocky Materials</b>		<b>9. Minerals and Ores</b>	(A) Describing Minerals (B) IDentifying Minerals (C) Minerals as Resource
		<b>10. Rocks</b>	(A) Classifying Rocks (B) Igneous Rocks (C) Sedimentary Rocks (D) Metamorphic Rocks (E) THE Rock Cycle
		<b>11. Fossils</b>	(A) Fossilization (B) Paleontology (C) Fossil Fuels
		<b>12. Weathering, Erosion, and Soils</b>	(A) Weathering (B) Erosion & Deposition (C) Soil
<b>3</b>	<b>4. The Water World</b>	<b>13. Oceans and Seas</b>	(A) Ocean Basins (B) Seawater (C) Ocean Environments
		<b>14. Ocean Motions</b>	(A) Tides (B) Currents (C) Waves
		<b>15. Ocean Exploration</b>	(A) The History of Ocean Exploration (B) Oceanography in Action (C) Entering an Alien World
		<b>16. Surface Waters</b>	(A) Streams (B) Lakes and Ponds
		<b>17. Groundwater</b>	(A) Underground Reservoirs (B) Groundwater Chemistry (C) Water as a Resource (C) Groundwater Landforms
	<b>5. Interacting With the Biosphere</b>	<b>18. Earth's Atmosphere</b>	(A) What is the Atmosphere (B) Special Zones in the Atmosphere (C) Energy in the Atmosphere

		<b>19. Weather</b>	(A) What is Weather (B) Winds (C) Clouds and Precipitation
<b>4</b>		<b>20. Storms and Weathering Predictions</b>	(A) Air Masses and Fronts (B) Severe Weather (C) Weather Forecasts
		<b>21. Climate and Climate Change</b>	(A) What is Climate (B) Climate Zones (C) Climates Change
	<b>6. The Heavens</b>	<b>22. The Sun, Moon, and Earth Systems</b>	(A) The Sun (B) The Moon (C) The Sun, the Moon, and Earth as a system
		<b>23. Our Solar System</b>	(A) Modeling the Solar System (B) The Planets (C) Non Planetary Objects
		<b>24. Stars, Galaxies, and the Universe</b>	(A) Stars (B) Gas to Galaxies (C) The Universe and its Origin
		<b>25. Space Exploration</b>	(A) Telescopes (B) Rockets, Satellites, and Probes (C) Manned Space Exploration

## IV. Course Policies

### General Rules

In any classroom, rules and policies are created to provide the safest learning environment possible for all students. In addition to following Ocean View Christian Academy, Biology rules are the follows:

- I will show respect to the teacher and my fellow peers
- I will support one another and work together as a team
- I will be on task; no unauthorized experiments or playing with equipment
- I will be responsible for my own actions at all times
- I am expected to be on time as signified by the bell
- I will respect all classroom property and equipment

### Classroom Guidelines

1. Enter the classroom quietly and be in your seat when the bell rings.
2. Be prepared for class with note-taking materials, books, homework, etc.
3. Show respect to others and their property.
4. Show that you are ready to learn by being attentive, taking notes, and sitting straight.
5. Leave your table clean and orderly for the following class.

### Consequences for not following the guidelines

1. **Courtesy:** Quiet, verbal warning. See me after class.
2. **Consequences:** RenWeb entry
3. **Action:** Email AND phone call to parent. Drop in Effort Grade.
4. **Detention:** Removal from class; office staff will become involved.
5. **Parents:** Call parents/schedule parent-teacher meeting
6. **Referral**



I reserve the right to conduct a pop quiz at any time if the majority of the class is continually choosing not to follow the guidelines.

**Homework**

An average of 15-30 minutes of homework will be assigned daily, as explained in student/teacher contract. Homework assignments are due on the designated “due dates”. Each day that an assignment is late, the student will lose points. Incomplete and missing assignments will lower your grade. Remember everything you do is worth points. Homework will not be given on Wednesday nights due to youth group (Pipeline Student Ministries) and other extracurricular activities that students participate in.

**Interactive Notebook**

Each student should have a 3 or 5 subject notebook college ruled 8.5-11 inches. There will be weekly notebook checks which will be given performance points. The notebook may be used to study, take notes, perform labs, practice problems, and review information for quizzes and exams. *Each student is expected to place/glue their assignments and class notes neatly in their notebooks in chronological order. Pages should never be removed from notebook.*

**Late Work (Homework)**

The general rule will be -10% for each day the assignment is late. For example, a perfect assignment worth 10 points that is returned two days late will result in an 8/10 grade in FACTS/RenWeb. Detention will be assigned after the third late assignment.

**Late Work(Labs/Projects)**

Labs, projects, papers, etc. **must** be turned in on time.

**Science Fair**

Participation in science fair is **MANDATORY** for all students

Date of Science Fair: N/A

Description: Further information will be given

**School Wide Grading Scale:**

99-100	A+	88-89	B+	78-79	C+	68-69	D+
92-98	A	82-87	B	72-77	C	60-67	D
90-91	A-	80-81	B-	70-71	C-	00-59	F

**School Wide Weighing Scale**

Category	Percent	Description
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Homework	20%	Homework will be signed on a regular basis and should be completed the following day unless otherwise specified. Homework will be assigned such that the student should spend approximately 15-30 minutes on the assignment. If it is taking longer, the student should seek tutoring during a help session or by appointment. Homework assignments may be graded for completion or accuracy at my discretion.
Quizzes	30%	An in-class quiz will be given at the end of the class the last day of the week. For example, most quizzes will be on Friday's, however, if OVCA is out of school on Friday the quiz will be given on Thursday. Quizzes are not limited to the end of the week. Any labs, projects and papers that are done in or out of class will also be considered as quiz grades.
Tests	30%	Students should expect tests every 3-4 weeks in place of their weekly quiz.
Final Exam	20%	The final exam is a <b>cumulative</b> exam that will be given on the day chosen by the OVCA administration. An update will be provided once the date of this exam is confirmed.

### Attendance Policy

Refer to Student Manual

### Academic Dishonesty:

Any student caught committing or facilitating academic dishonesty will receive no credit on the assignment and be referred to the office staff to discuss further consequences. Refer to your parent/student handbook for further details.

### Extra Credit:

Quizzes and exams *may* contain opportunities for extra, but not always. Daily homework will not include extra credit opportunities; however, the teacher may offer optional assignments throughout the year for additional credit.

### Free Learning Resources:

Websites:

Khanacademy.org

iPhone/iPad Apps

Khan Academy

### Tracking Grade & Behavior:

1. RenWeb.com
2. Choose "Parent" or "University" in Dropdown
3. Login



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*Earth Science Office Hours: M-Th by appointment*

We have read and understand the above guidelines for Earth Science

Parent/ Guardian Signature

Parent/Guardian Name (print)

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Student Signature

Student Name (Print)

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## **\*Film Disclaimer\***

Certain films and documentaries will be shown to enrich the class curriculum. Although few films or documentaries may show graphic images (carcasses, animal attacks, etc), the films show no other inappropriate content. All films and documentaries will abide by OVCA's Integrity, Conduct, and Policy Standards/Agreement. By signing below, you are agreeing to allow your student to participate. If you **do not** want your child to participate, please send me a direct email with your student's name.

\_\_\_\_\_ Initials

## **\*Field Trips\***

As students diligently work throughout the year, field trips may be weaved into learning for a more "hands-on" learning experience. These field trips may include but are not limited to:

Museums, hikes, animal rehabilitation centers (San Diego Zoo, Seaworld), and any other location(s) that may be beneficial to learning biology.

*Parents will be notified prior to field trip regarding location, date, and time and any other necessary information.* All locations will abide by OVCA's Integrity, Conduct, and Policy Standards/Agreement.

By signing below, you are agreeing to allow your student to participate. If you **do not** want your child to participate, please send me a direct email with your student's name prior to field trip.

\_\_\_\_\_ Initials