

# Redeemer Christian High School

## BIOLOGY 4U

### Course Introduction

\*Biology 4U reflects how God's goodness and man's imperfection is found in the biological realm. The units will highlight the common hand of creation, the intricate interdependencies that are involved, the brokenness that leads to death and the attempts that are made to heal or redeem that brokenness. We will see how our innate human desires are for redemption and healing even though we fall short in these areas. You will be drawn into interactions and hopefully commitments that would involve the aligning of your hearts, minds and bodies with those of Christ.

\*Biology is a field that requires moral and ethical positions. To that effect, one of the areas you will be asked to develop is your thinking and communication skills. To this end, we will explore and discuss many issues.

**Scriptural Foundation:** *For just as the body is one and has many members, and all the members of the body, though many, are one body, so it is with Christ.* 1 Cor. 12:14

### Unit Methodology and Student Expectations

Every unit will begin with an overview of the topics and issues related to the unit. The bulk of the unit content will come at the beginning of each unit and will require reading and constant review on your part. Every day there is **homework** in as much as you should be **reading** the **next text** section and/or **reviewing** the **notes** from the day and/or working on assignments. There is a lot of information to learn – don't let it pile up. Ask relevant questions as soon as they occur to you and before evaluations.

Come prepared for class, with a right attitude and the right materials. Be in your seat before the bell with the appropriate books (text, binder, journal...).

The end of the unit is reserved for discussion, videos, journaling and/or assignment work.

Be respectful and let the fruit of the Spirit (that is love, joy, peace, patience, kindness, goodness, faithfulness, gentleness and self-control) guide our time together.

**Assessment** (not counting towards the final grade):

As learning: self-checked homework; quizzes (oral & written); peer feedback and peer marking of quizzes.

For learning: teacher feedback and/or marking of quizzes.

**Assessment of Learning** (counting towards the final grade):

- **Tests** – Five unit tests. (40 %)
- **ISU Assignment** ( 5 %)
- **General Assignments** (20 %)
  - Include lab analysis and projects.
- **Journal** ( 5 %)
  - Each student will be required to journal throughout the course. Evaluation will be based on format, neatness and relevant thought. There are no clear right-and-wrong answers in journaling. Journals will be handed in periodically.

**Tests, assignments and the journal will be worth 70% of the course.**

- **Exam** – Summative of the entire course. (**Worth 30% of the course**)

Assessment for learning will be divided into the four knowledge and skills categories: Knowledge/Understanding; Thinking/Problem Solving; Communication; Application

You must hand assignments in before the end of the marking period, as specified by the teacher. Exceptions can be made for reasons approved for by the teacher at least one day prior to the end of the marking period. Late assignments will have a 10% a day deduction for up to 5 school days.

**Units to be covered:**

**Unit 1 – Biochemistry (ch. 1-2)**

**Unit 2 – Metabolic Processes (ch. 3)**

**Unit 3 – Molecular Genetics (ch. 4-6)**

**Unit 4 – Homeostasis (ch. 7-10)**

**Unit 5 – Population Dynamics (ch. 14-15)**