**Course Focus:** Students are to have the basic understanding of each topic at the end of the course. Interactive discussion during the class session combined with student preparation and review of reading material prior and post class session is advised in order to keep up with the pace of instruction.

**NOTE:** **Timely class attendance is taken seriously. Tardy or absent students should follow up on missed work promptly.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **In Class Cumulative Score**  | **Points** | **Total Points** |
| 1 | Class Attendance  | 10 | 60 |
| 2 | Class Manners * Pay attention
* Inappropriate conduct such as playing on mobile phones, tablets, etc… will result in point(s) deduction.

**Note:** Mobile phones will be permitted for searches in accordance to specific assignment/class activities once announced at specific timepoint(s). | 10 |
| 3 | Presentation in groups (individual scores for each student) Group Session – problem solving  | 10 |
| 4 | Extra-curriculum Activities* Video Clip Presentation and/or
* Lab with printed scientific report
 | 10 |
| 5 | Test  | 10 |
| 6 | Assignments* Concept Map
* Mind Map
 | 10 |
|  |
| 7 | Midterm | 20 | 40 |
| 8 | Final | 20 |
| 9 | Extra Credit will be considered based on quality of work | 0-10  |
|  | **Passing Score**  |  **50 %** |

|  |  |
| --- | --- |
| **Topics Covered** | **Details** |
| 1 | Cellular Transport (Review) | * Structure and Function of Cell Membrane
* Active and Passive Transport

(Endocytosis, Exocytosis, Diffusion, and Osmosis)  |
| 2 | Cellular Homeostasis | * Kidney and Function
* Kidney Malfunction and Disease
* Endocrine System function in homeostasis
* Immune Mechanism and Immunity
* Types of Immune Response
* Components of Immune Response
* Impaired Immune Response
* Immunocompromised arising from HIV Infection
 |
|  | **Midterm Exam** | **Cover up to topics 2** |
| 3 | Plant Growth and Survival | * Essential Organic and Inorganic Molecules for Plant Growth
 |
| 4 | Plant Stimulus and Response | * Plant Response to Stimulus
 |
|  | **Final Exam** | **Cover up to topics 3-4** |

**Reading and Study Material:**

1. Reading material, Power Point Lectures, and assignment will be uploaded onto classroom.

2. Hard Copy Power Point lecture will also be provided.

3. Campbell Textbook (or equivalent textbook may be used in conjunction).