

**Baghdad University**  
**College of Dentistry**  
**Department:**  
**Course title.**  
**Stage:**



**Course Coordinator:**  
**Academic status:**  
**Qualifications:**

## Course syllabus

| Week                   | Date | Topics Covered                                      | Lab. Experiment Assignments                         | Notes |
|------------------------|------|---|---|-------|
| 1                      |      | Introduction to Biology                             | Laboratory safety                                   |       |
| 2                      |      | Bacteria and viruses                                | Parts of microscope                                 |       |
| 3                      |      | Bacteria and disease                                | Orientation and direction                           |       |
| 4                      |      | Immune system                                       | Types of cells shapes                               |       |
| 5                      |      | Parasitology, type of parasites                     | Entamoeba histolytica, and coli                     |       |
| 6                      |      | Types of hosts                                      | Entamoeba gingivalis<br>Giardia lambelia            |       |
| 7                      |      | Entamoeba histolytica, and coli                     | Trichomonas vaginalis, and tenax                    |       |
| 8                      |      | Giardia lambelia, Leishmania tropica                | Leishmania tropica, plasmodium vivax                |       |
| 9                      |      | plasmodium vivax, Toxoplasma gondii                 | Toxoplasma gondii, Balantidium coli                 |       |
| 10                     |      | Fasciola hepatica, schistosoma spp                  | schistosoma spp<br>Fasciola hepatica                |       |
| 11                     |      | Taenia saginata and solium, Echinococcus granulosus | Taenia saginata and solium, Echinococcus granulosus |       |
| 12                     |      | Ascaris lumbricoides, Ancylostoma, Enterobius       | Ascaris lumbricoides<br>Ancylostoma, Enterobius     |       |
| 13                     |      | Cell biology  | Endoskeleton of frog skull(dorsal,ventral view)     |       |
| 14                     |      | Structure of macromolecules                         | Fore limbs,hind limbs,pelvic,pectoral girdle        |       |
| 15                     |      | Structure of plasma membrane                        | Structure of plasma membrane, osmosis               |       |
| <b>Half-year Break</b> |      |   |   |       |
| 17                     |      | Endoplasmic reticulum                               | Endoplasmic reticulum, Ribosomes                    |       |

|    |  |   |                                      |  |
|----|--|---|--------------------------------------|--|
| 18 |  | Mitochondria, Golgi apparatus                           | Mitochondria, Golgi apparatus        |  |
| 19 |  | Nuclear membrane and Chromatin                          | Mitotic division, Meiototic division |  |
| 20 |  | Spermatogenesis and Oogenesis                           | Sperms and oogenia                   |  |
| 21 |  | Histology, epithelil tissues                            | Simple epithelil tissue              |  |
| 22 |  | Connective tissues                                      | Stratified epithelil tissue          |  |
| 23 |  | Cartilage, bones  | Loose Connective tissues             |  |
| 24 |  | Blood   | Cartilage, bones                     |  |
| 25 |  | Muscular tissue   | Blood cells                          |  |
| 26 |  | Nerve tissues   | Nerve cells                          |  |
| 27 |  | Genetic and inheritance                                 | Spinal cord, nerve trunk             |  |
| 28 |  | Hereditary and environment, DNA, RNA                    | DNA, RNA                             |  |
| 29 |  | Human karyotypes, chromosomes, mutation                 | Types of chromosomes                 |  |
| 30 |  | Blood groups, genetic engineering, restrictions enzymes | Blood groups                         |  |