**BIO 151 LABORATORY OF GENERAL BIOLOGY I Schedule**

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| 1. **WEEK** | Biosafety |
| 1. **WEEK** | Introduction to Simple Microscopy, Usage and Obtaining Images |
| 1. **WEEK** | Characteristics of Prokaryotic and Eukaryotic Cells |
| 1. **WEEK** | Plant and Animal Cells: Allium cepa (Onion) Epidermis Cells and Human (Homo sapiens) Tongue Epithelial Cells |
| 1. **WEEK** | Ergastic substances I: Starch grains in Solanum tuberosum (Potato), Phaseolus vulgaris (Bean) and Oryza sativa (Rice) |
| 1. **WEEK** | Plastids: Chloroplasts in Tradescantia zebrina (Inchplant or Wandering Jew), Chromoplasts in Pyracantha coccinea (Firethorn or Red Firethorn) and Leukoplasts in Tradescantia zebrina |
| 1. **WEEK** | Ergastic substances II: Crystals: Druse Crystals in Begonia sp., Raphide Crystals in Impatiens walleriana (Busy Lizzie or Balsam or Sultana) and Cystolith Crystals in Ficus elastica (Rubber) |
| 1. **WEEK** | Epidermis and epidermal structures in plants: Wavy-walled Epidermis and Gramineae type stoma in Cyperus sp. (Umbrella Papyrus) and Peltate Trichomes in Eleagnus sp. (Silverberry) |
| 1. **WEEK** | Ground (Supporting) Tissue in Plants: Angular Collenchyma Cells in Begonia sp., Sclerenchyma cells in Cyperus sp. and Sclereids in Pyrus communis (Pear) |
| 1. **WEEK** | Epithelial Tissue and Pigment Cells in Animals: Chromatophores in Fish Scales and Stratified Squamous Epithelium and Melanocytes in Rana sp. Skin (Frog Skin) |
| 1. **WEEK** | Muscle Tissue: Skeletal Muscle Tissue in Caelifera Thorax (Grasshopper Thorax) |
| 1. **WEEK** | Cartilage Tissue: Hyaline Cartilage in the Trachea of Mus musculus (Mouse) |
| 1. **WEEK** | Bone (Osseous) Tissue: Osteon (Osteocytes, Haversian Canal) in Compact Bone Tissue of Rattus norvegicus (Rat) Blood Tissue: Mammalian and Amphibian White and Red Blood Cells |
| 1. **WEEK** | Cell Division: Mitosis and Meiosis: Phases of Mitosis in Allium cepa (Onion) Root Tips |