<table>
<thead>
<tr>
<th><strong>Module code</strong></th>
<th>SB-1201</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module Title</strong></td>
<td>Diversity of Life</td>
</tr>
<tr>
<td><strong>Degree/Diploma</strong></td>
<td>Bachelor of Science (Biology)</td>
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<tr>
<td><strong>Type of Module</strong></td>
<td>Major Core</td>
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<tr>
<td><strong>Modular Credits</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Total student workload</strong></td>
<td>8 hours/week</td>
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<tr>
<td><strong>Contact hours</strong></td>
<td>6 hours/week</td>
</tr>
<tr>
<td><strong>Prerequisite</strong></td>
<td>None</td>
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<tr>
<td><strong>Anti-requisite</strong></td>
<td>None</td>
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**Aims**

This module aims to introduce students to the world of living organisms and the theory of evolution as a unifying theme. The module highlights the diversity of life by studying major phyla according a classification system based on 3 domains and 5 kingdoms.

**Learning Outcomes:**

*On successful completion of this module, a student will be expected to be able to:*

**Lower order:** 30%
- Explain basic mechanisms for the evolution and origin of species
- Describe relationship of the 5 biological kingdoms used in the modern classification system

**Middle order:** 60%
- Describe the phylogenetic relationships (molecular and morphological) for selected animal and plant phyla
- Identify the phylum of selected material using key diagnostic features of major plant and animal taxa,
- Analyse basic structure-function relationships

**Higher order:** 10%
- Use light microscopy and perform simple drawings of structures using a microscope
- Perform simple dissections and prepare slides of animal parts

**Module Contents**

- Evidence for evolution, mechanisms of evolution
- Origin of species
- Tracing evolution through phylogeny
- Extinction and radiation based on selected case studies
- Differences between Prokaryotes and Eukaryotes
- Classification and the taxonomic hierarchy
- Origins and relationships of the 5 kingdoms
- The evolutionary relationships within and between the main groups of organisms
- How evolutionary relationship is reflected in the classification
- Prokaryotes, viruses, Protista (animal protists, plant protists and algae)
- Bryophytes, ferns, gymnosperms,
- Angiosperms
- Fungi, Porifera, Cnidaria,
- Platyhelminthes, Nematoda, Annelida
- Mollusca, Arthropoda, Echinodermata and Chordata
- Man’s origins and relationships to the living world

**Assessment**

- Formative assessment
- Tutorial assignments and feedback
- Examination: 60%
  - Coursework: 40%
  - 5 practical reports (30%)
  - 2 class tests (10%)
- Summative assessment