for environmental investigations; (2) provide students with the skills in management and evaluation of environmental data; and (3) provide students with hands-on experience in management techniques for conducting and evaluating an environmental project.

**BMS 1490 Clinical Sciences Lab (1,0,3)**

This course aims to teach students how to apply the knowledge of history taking, doing a thorough physical examination of various organ systems will be covered, from different components of the nervous system to the cardiovascular and renal systems. The laboratory sessions cover Microbiology and Pathology. Students will also learn how to utilize these ancillary investigations to help them confirm their preliminary diagnoses. Ample examples of the investigations will be shown, e.g. ECG of a patient with myocardial infarction, normal X rays of different parts of the body and X rays of diseased states, CT's, MRI's, and isotopic scans of common conditions. Applications and indications for these investigations will also be explained.

**BMS 1460 Pre-clinical Sciences Lab (1,0,3)**

The laboratory sessions cover Microbiology and Pathology. Through these practices, the concepts regarding pathogenesis and manifestations taught in lectures demonstrated and enhanced by case studies and hand-on experiences, and some common skills in medicine and scientific research will be learnt.

**BMS 1490 Clinical Sciences Lab (1,0,3)**

This laboratory course aims to provide students with a practical experience in pharmacology. Students will be enriched to have hands-on experience of various tools and techniques for the use of biotechnology in animal science, plant science and medicine.

**BMS 1370 Pharmacology (3,3,0) (E)**

This course aims to provide students with fundamental knowledge on the use of xenobiotics as orthodox Western drugs in the treatment of human diseases. In the beginning of the course, the important principles of pharmacology will be introduced. This is followed by a series of topics on the therapeutic approach in tackling inflammation and pain management. Subsequently, a systematic coverage on the mechanisms of action of drugs that on various organ systems will be covered, from different components of the nervous system to the cardiovascular and renal systems. The last section of the course is on chemotherapeutic agents, ranging from the use of antibiotics to the different classes of anti-tumor drugs. In addition, students also have the opportunity to participate in a semester-end group presentation on approved topics relevant to pharmacology. By the end of the course, students are expected to acquire essential knowledge on the classes and clinical uses of different drugs currently commonly used in Hong Kong, plus a general idea about Toxicology.

**BMS 1230 Molecular Biology (1,1,0) (E)**

An introduction to the basic concepts of gene expression, regulation and manipulation. Students will expose to few common techniques used by molecular biologists, with special emphasis on the applications in medicine. A one-credit hour laboratory course (BMS1240) is coupled with the lecture. Students will have hands-on experience of various tools and techniques for analysis of recombinant DNA. Daily life issues related.

**BMS 1240 Molecular Biology—Laboratory (1,0,3)**

To provide students the different methodologies in manipulation and detection, and where applicable.

**BMS 1260 Medical Psychology (2,2,0) (E)**

This course aims at providing students with basic knowledge about the theories and concepts in medical psychology, developing their ability to apply psychological explanations to individual daily social behaviour, and examining current psychological issues related to people in Hong Kong.