

## Blue Marble University

### Doctor of Science (D.Sc.) in Applied Biology

(3 Year Online Program)

#### Doctor of Science (D.Sc.) Applied Biology

This program teaches concepts in applied biology, that is the role of biology in medical, agricultural, and industrial applications. This is a multidisciplinary program that is intended to vest the graduate in a broad and useful education that will be useful in many fields of endeavor. It is the intent of Blue Marble University to avoid where possible the training of doctoral candidates with too specialized and too narrow a focus. Rather, graduates would be expected to be able to follow endeavors in a variety of different settings, including clinical, biomedical, research, industrial, and academic.

The course can be completed entirely online within a 3 year period.

We operate on a trimester schedule, which means that our academic year is divided into 3 segments of 4 months each. In each 4 month period, students take three courses. For some terms, or as determined by the University, students may be assigned courses in sequence, lasting about 1 month each. In that event, for any approximate one month period, a student will be studying one course.

**TOTAL: 72 TRIMESTER CREDITS**  
**(Equivalent to the USA Minimum Requirement for a Doctoral Degree)**

Year 1	Year 2	Year 3
Term 1	Term 1	Term 1
Biomedical Engineering Overview (Course #AB610), 3 credits	Plant Science (Course #AB630) 3 credits	Research Methodology and Writing (Course #AB680) 3 credits
Biomedical Engineering Medical Apps (Course #AB612), 3 credits	Plant Genetics and Breeding (Course #AB632) 3 credits	Topics for Thesis (Course #AB682) 3 credits
Batch Preparation of Bacterial Cells (Course #AB614), 3 credits	Soil Science and Fertility (Course #AB634) 3 credits	Dissertation Preparation I (Course #AB684) 3 credits

Year 1	Year 2	Year 3
Term 2	Term 2	Term 2
Batch Preparation of Human Cells-Tissue Engineering (Course #AB616), 3 credits	Sexual and Asexual Propagation (Course #AB636) 3 credits	Dissertation Preparation II (Course #AB686) 3 credits
Nano-particles (Course #AB618), 3 credits	Plant Growth Systems and Urban Farming (Course #AB638) 3 credits	
Immunoassays (Course #AB620), 3 credits	Waste Management Biology (Course #AB640) 3 credits	
Term 3	Term 3	Term 3
Stem Cells- Adult and Fetal (Course #AB622) 3 credits	Biological Apps for Water Resources (Course #AB642) 3 credits	Dissertation Presentation (Course #AB700) 6 credits
Stem Cells-Embryonic (Course #AB624), 3 credits	Genomics and Proteomics (Course #AB644) 3 credits	
Stem Cell Identification (Course #AB626), 3 credits	Biology of Food Contamination (Course #AB646) 3 credits	

**A description of the courses can be found in the Department of Biology Course Handbook.**