Teacher Appointment Criteria
Biology 10000 – Introduction to the Biological World
(Includes BIOL 10001)

Statement of Intent
This document is intended to describe departmental criteria for approving high school teachers to teach the course above.

Requirements
1. Any instructor who teaches this course must meet the qualifications as established by the department, specifically, a) at least a: Master’s-level degree in Biology, or a Baccalaureate-level degree in Biology with a Master’s-level degree in Education, b) at least four (4) years experience teaching a Biology class at the high school level, and c) a demonstrated commitment to continuing education in Biology (continuing academic work, attendance at seminars, meetings, workshops, and the like, which have a focus on Biology and/or the teaching of Biology).
2. Specifically, the Department requires all instructors of BIOL 100 to cover the following chapters/content: Life’s Chemical Basis; Molecules of Life; How Cells Are Put Together; How Cells Work; Where It Starts – Photosynthesis; How Cells Release Chemical Energy; How Cells Reproduce; Meiosis And Sexual Reproduction; Observing Patterns In Inherited Traits; Chromosomes And Human Genetics; DNA Structure And Function; From DNA To Proteins; Controls Over Genes; Studying And Manipulating Genomes; Processes Of Evolution; Evolutionary Patterns, Rates, and Trends; The Origin and Early Evolution Of Life; Prokaryotes and Viruses; The Simplest Eukaryotes – Protists and Fungi; Plant Evolution; Animal Evolution-The Invertebrates; Animal Evolution-The Vertebrates; Plants and Animals-Common Challenges; Plant Tissues; Plant Nutrition and Transport; Plant Reproduction and Development; Animal Tissues and Organ Systems; Neural Control; Sensory Perception; Endocrine Control; How Animals Move (Skeletal and Muscular System); Circulation; Immunity; Respiration; Digestion and Human Nutrition; The Internal Environment; Animal Reproduction and Development; Population Ecology; Community Structure and Biodiversity.
3. The IPFW Department of Biology, through its department representative, reserves the right of approval for the primary textbook to be used in this course.

The following signatories agree to abide by the terms of this agreement:

Instructor Signature

Principal Signature

IPFW Department Chair Signature

Date

Date

Date