WILMINGTON UNIVERSITY COLLEGE OF ARTS AND SCIENCES BASIC COURSE INFORMATION

COURSE TITLE:

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- 4. Describe the structure and function of cell organelles and membranes including the movement of molecules across membranes in order to maintain homeostasis.
- 5. Identify mechanisms and structural features of cells that allow organisms to capture, store and use free energy.
- 6. Model the transmission of genetic material to the next generation in order to create either identical cells or genetic variation.
- 7. Identify Mendelian and Non-Mendelian patterns of inheritance using data sets and predict the inheritance of traits in future generations.
- 8. Model the transfer of genetic information from DNA and RNA to a protein and explain how gene expression is regulated and can be altered to affect the organism.
- 9. Explain the transfer of genetic information in viruses and bacteria.
- 10. Describe the techniques used to manipulate genetic material in order to understand the importance of biotechnology to humankind.

EVALUATION PROCEDURE AND GRADING POLICY:

LATE ASSIGNMENT POLICY:

CAS CLASSROOM STANDARDS: See Blackboard "Syllabus" area

COURSE SCHEDULE (all assignments/exams and due dates):