

Jones County Junior College

Academic Affairs Catalog Addendum 2008-2010

Addendum #003 December 3, 2008

Jones County Junior College is expanding its course offerings to include Environmental Science.

BIO 1214 Environmental Science – A combined lecture and laboratory course covering the relevance of ecological principles to environmental problems and the relationship of humans to their environment with emphasis on preservation of environmental quality. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours of lecture and two hours lab. Four semester hours credit.

(printed catalog page 105)

Pre-Biological Sciences, Pre-Biology Education and Pre-Physical Therapy*

Orientation (2 hours) Credit Hours

LLS1312 Orientation.....2

English Composition & Public Speaking (9 hours)

ENG1113 English Composition I.....3

ENG1123 English Composition II.....3

SPT1113 Public Speaking.....3

Math (3 hours)

MAT1323 Trigonometry.....3

Lab Science (32 hours)

BIO1134 General Biology I.....4

BIO1144 General Biology II.....4

CHE1214 General Chemistry I.....4

CHE1224 General Chemistry II.....4

CHE2424 Organic Chemistry I.....4

CHE2434 Organic Chemistry II.....4

PHY2414 General Physics I.....4

PHY2424 General Physics II.....4

Anatomy and Physiology (0-8 hours)**

BIO2514 Anatomy and Physiology I**.....4

BIO2524 Anatomy and Physiology II**.....4

Humanities (select 6 hours)

ENG2323 British Literature I.....3

ENG2333 British Literature II.....3

ENG2413 World Literature.....	3
HIS1113 Western Civilization I.....	3
HIS1123 Western Civilization II.....	3
HIS2213 American History I.....	3
HIS2223 American History II.....	3
PHI2113 Introduction to Philosophy I.....	3
PHI2613 World Religions.....	3
Fine Arts (select 3 hours)	
ART1113 Art Appreciation.....	3
MUS1113 Music Appreciation.....	3
Social Science (select 9 hours)	
ECO2113 Economics I.....	3
ECO2123 Economics II.....	3
GEO1113 World Geography.....	3
HIS1113 Western Civilization I.....	3
HIS1123 Western Civilization II.....	3
HIS2213 American History I.....	3
HIS2223 American History II.....	3
PSC1113 American National Government.....	3
PSY1513 General Psychology.....	3
SOC2113 Introduction to Sociology.....	3
Other (as needed to total maximum transferable hours)	
BIO1314 Botany I.....	4
BIO1414 General Zoology.....	4
BIO1214 Environmental Science.....	4
MAT1613 Calculus I.....	3
MAT1623 Calculus II.....	3

*Physical Therapy majors: This advisement sheet is based on the requirements for applying to the Physical Therapy Program at UMC. Students planning to enter the UMC program must first complete a baccalaureate degree, preferably in an area of science (e.g., biology, chemistry, etc.). Students are advised to contact their school or program of choice for further guidance with course requirements.

**Anatomy and Physiology hours may not be counted toward a science degree but they may be required by some Physical Therapy programs.

(printed catalog page 194)

BIOLOGY

BIO 1134 – General Biology I – A combined lecture and laboratory course for science majors that includes study of the scientific method, chemistry relevant to biological systems, cell structure and function, cell processes including photosynthesis and cellular respiration, cell division, genetics, and molecular genetics. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours of lecture and two hours lab. Four semester hours credit.

BIO 1144 – General Biology II – A combined lecture and laboratory course for science majors that reinforces concepts introduced in BIO 1134 General Biology I, while emphasizing the diversity of life. Topics covered include adaptation by natural selection, classification, ecology, detailed consideration of each group of organisms and viruses, study of animals and plants including their basic anatomy and physiology. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours lecture and two hours lab. Four semester hours credit.

BIO 1214 -- Environmental Science – A combined lecture and laboratory course covering the relevance of ecological principles to environmental problems and the relationship of humans to their environment with emphasis on preservation of environmental quality. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours of lecture and two hours lab. Four semester hours credit.

BIO 1314 – Botany – A combined lecture and laboratory course covering the representative groups of the plant kingdom, their anatomy, physiology, taxonomy, and economic importance. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours lecture and two hours lab. Four semester hours credit.

BIO 1414 – General Zoology – A combined lecture and laboratory course that covers phylogeny and classification systems and studies of the invertebrate and vertebrate taxa. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours lecture and two hours lab. Four semester hours credit.

BIO 2414 – Zoology I – A combined lecture and laboratory course that includes in-depth studies of phylogeny and classification systems, protozoa, and major invertebrate phyla. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours lecture and two hours lab. Four semester hours credit.

BIO 2424 – Zoology II – A combined lecture and laboratory course that includes in-depth studies of animal phyla with emphasis on the vertebrates and animal systems. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours lecture and two hours lab. Four semester hours credit.

BIO 2514 – Anatomy and Physiology I – Minimum ACT score of 21 on the Science component, or BIO 1134, 1144, 2414, or CHE 1214, or admission to the health related program at JCJC, or permission of instructor. A combined lecture and laboratory course that covers the anatomical and physiological study of the human body as an integrated whole. The course includes detailed studies of: biological principles; tissues, and the integumentary, skeletal, muscular and nervous systems. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours lecture and two hours lab. Four semester hours credit.

BIO 2524 – Anatomy and Physiology II – Prerequisite: BIO 2514. A combined lecture and laboratory course that includes detailed studies of the anatomy and physiology of human special senses and the endocrine, circulatory, respiratory, digestive, and urinary systems, as well as reproduction and development. Labs associated with this course contain experiments and exercises that reinforce the principles introduced in lecture classes. Three hours lecture and two hours lab. Four semester hours credit.

BIO 2924 – Microbiology – Prerequisite: BIO 1134, or 2414, or 1314, or 1414, or CHE 1114, or 1214. A combined lecture and laboratory course providing a survey of the microbes (microscopic organisms) with emphasis on those affecting other forms of life, especially man. Labs associated with this course are devoted to lab safety and gaining hands-on experience in the areas of: microscopy, culturing techniques (pure culture and isolation and media preparation), staining techniques, aseptic technique, diagnostic procedures and effectiveness of antimicrobial agents. Three hours lecture and two hours lab. Four semester hours credit.