**JCC OFFICIAL COURSE OUTLINE**

**Course number, title and credits; total time allocation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Course Letter/Number | **BIO 132** | Credits | **4** | Title | **Human Biology** |
|  |  |  |  |  |  |
| Lecture/Discussion | **3** | hrs/semester |  | Lab | **2** | hrs/semester |  | Clinical |  | hrs/semester |

**Catalog Description and Pre- and Co-requisites (Same as taxonomy and catalog)**

Students focus on the structure and function of the human body, the unity and diversity of life, the nature of scientific inquiry, and the principles and processes of evolution as well as contemporary issues that relate to biology. Course includes a laboratory component which focuses on human anatomy.

Prerequisite: ENG 085\* and MAT 020\* or higher

**Knowledge, Skills and Abilities Students Acquire from this Course (Educational Objectives)**

Understand and be able to identify most every aspect of basic human anatomy. Understand basic human physiology. Understand contemporary and historical issues pertaining to human biology.

**Associate Degree Outcomes Addressed in this Course (These must appear in course syllabus.)**

ADO 4: Scientific Reasoning and ADO 9: Working in Small Groups

**Units/topics of Instruction**

Ch 1, Life & Science, Ch 2, Biochem, Ch 3, Cells, Ch 4, System Org, Ch 11, Skeletal Sys., Ch 12, Muscular Sys., Ch 5, Cardiovascular Sys., Ch 6, Blood, Ch 7, Immunity, Ch 8, Digestive Sys., Ch 9, Respiration, Ch 10, Urination/Excr., Ch 13, Nervous Sys., Ch 14, Senses, Ch 16, Reproductive Sys., Ch 18, Cell Cycle, Ch 20, Genetics, Ch 22, Evolution.

Labs: Skeletal, Muscles, Visceral Anatomy, Cardiovascular, Nervous

**Instructional Techniques and Procedures**

Lectures, laboratory exercise, small group work, guided readings, internet research.

**Instructional Use of Computer or Other Technology**

Internet research, homework submissions.

**Instructional Materials and Costs to Students**

 Human Biology 12th Ed., S.S. Mader

 Photographic Atlas for the Anatomy & Physiology Laboratory 7th Ed., Van de Graaff, Morton & Crawley

**Skills and abilities students should bring to the course**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | a limited amount of material |  |  | basic, pre-algebraic problems |
| Able to read |  | an average amount of material | Able to compute | **x** | simple algebraic problems |
|  | **x** | an above average amount of material |  |  | higher order mathematical problems |
|  |  |  |  |  |  |
|  |  | relatively easy material |  |  | short compositions |
| Able to read |  | moderately difficult material | Able to write | **x** | medium length compositions |
|  | **x** | technical or sophisticated material |  |  | lengthy compositions |
|  |  |  |  |  |  |
|  | **x** | keyboard skills/familiar with computer |  | **x** | dissection |
| Able to use | **x** | computer application | Other necessary  |  |  |
|  technology | **x** | web navigation |  abilities |  |  |
|  |  |  |  |  |  |

**The course is usually scheduled**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Day: | x | Fall | x | Winter | x | Spring |
|  |  |  |  |  |  |  |
| Evening: | x | Fall | x | Winter |  | Spring |

|  |  |  |
| --- | --- | --- |
| **Prepared by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  | **Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Approved by Dept. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  | **Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Approved by Dean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  | **Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Approved by Curr. Comm. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  | **Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

 **(Last names, please) Form Revised 12/4/00**