

COURSE SYLLABUS

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| Course Title: | ST: Introduction to Anatomy & Physiology | | Date submitted: | Nov. 2014 AAC: 14-123 | |
| Department: | Mathematics & Science | | | | |
| Curriculum: | Science | | | | |
| Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system. | Course Code: (eg. ACC 101) | BIO*298 | Prerequisites: | | |
| | Course Type: | D/L | C- or better in General Biology I (BIO*121) or permission of Department Chair | | |
| | A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: Internship M: Seminar P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/Clinical/Lab Z: Combined Lecture/Studio | | | | |
| | Elective Type: | G/S | | | |
| | AH: Art History E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science | | | | |
| | Credit Hours: | 1 | Corequisites: | | |
| | Developmental: (yes/no) | No | None | | |
| | Lecture: | 1 | | | |
| | Clinical: | 0 | | | |
| | Lab: | 0 | | | |
| Studio: | 0 | | | | |
| Contact Hours: | Other: 0 | | | | |
| | TOTAL: | | Other Requirements: | | |
| | Class Maximum: | 20 | None | | |
| | Semesters Offered: | Su/W | | | |
| Ability Based Education (ABE) Statement | At Tunxis Community College students are assessed on the knowledge and skills they have learned. The faculty identified the General Education Abilities critical to students' success in their professional and personal lives. In every class, students are assessed on course abilities, sometimes program abilities, and, in most classes, at least one General Education Ability. Students will receive an evaluation of the degree to which they have demonstrated or not demonstrated that General Education Ability. | | | | |
| Catalog Course Description: | A 1-credit preparatory course for Anatomy & Physiology I (BIO*211)/Anatomy & Physiology II (BIO*212). Provides a review of study skills, algebraic methods, and cell biology concepts needed for success in a pre-professional Anatomy and Physiology curriculum. Includes a brief introduction to biochemistry, histology, and anatomical terminology. | | | | |
| Topical Outline: List course content in outline format. | <ol style="list-style-type: none"> 1. Study Skills for A&P 2. Measurements and Mathematics 3. Anatomical Terminology | | | | |

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| | <ol style="list-style-type: none"> 4. Fundamentals of General Chemistry 5. Biomolecules and Metabolism 6. Organelles and Cell Structure 7. Cell Physiology: Membrane Transport, Gene Expression, Cell Division 8. Introduction to Histology 9. Microscopy and Lab Resources |
| <p>Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p> | <p>Upon successful completion of this course, the student will be able to do the following:</p> <ol style="list-style-type: none"> 1. apply study methods suitable for upper level science coursework 2. identify chemical symbols and units of measure which appear in physiologic expressions 3. use algebraic methods to solve for unknown quantities in the context of given physiologic equations 4. define Latin and Greek roots commonly appearing in anatomical terms 5. describe the major classes of biological molecules, and explain their hydrophilic or hydrophobic character on the basis of bonding and polarity 6. identify the various eukaryotic organelles, and describe their functions 7. distinguish between active and passive forms of membrane transport 8. list the molecular events which occur during eukaryotic gene expression and mitosis 9. demonstrate proper technique in the handling and operation of a compound light microscope <p>PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p>None</p> <p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <p>None</p> |
| <p>Evaluation: List how the above outcomes will be assessed.</p> | <p>Assessment will be based on the following criteria:</p> <ol style="list-style-type: none"> 1. Homework 2. In-class presentations/participation 3. Quizzes, exams |
| <p>Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p> | <p>Required: Standard classroom technology (computer, projector system, whiteboards, etc.)</p> <p>Desired: Temporary access to A&P laboratory and equipment (Room 6-137) for demonstration purposes</p> |
| <p>Textbook(s)</p> | <p>L. K. Garrett, <u>Get Ready for A&P</u>, latest edition, Pearson</p> |