

Mt. San Jacinto College
Integrated Course Outline of Record

Form B

Submitted by: Sepehr Samadani Date: 12/17/2019

Department	Subject	Course Number	Title
Non-Credit Anatomy & Physiology	Non-Credit Anatomy & Physiology NC/ANAT	901	Anatomy Refresher Course

Units/Hours

Each lecture unit requires 1 hour per week of class time, and 2 hours per week of study outside of class.
Each laboratory unit requires 3 hours per week of class time.
Each activity unit requires 2 hours per week of class time and 1 hour per week of study outside of class.

Total Units

0

Total Contact Hours

16.00 - 18.00

Stand Alone:

Stand Alone

AA/AS Degree General Ed Breadth Area(s):

-none-

General Education Justification:

Maximum Enrollment:

30

Maximum Enrollment Justification:

Course requires significant individualized instruction or assessment – check all that apply:

- * Course relies on small group dynamics as a means of instruction or assessment.

Justification: This is a non-credit course with specific pre-requisites, and the nursing department does not anticipate more than 25 students enrolled. We also depend on small groups in the classroom to facilitate discussions and learning.

Grading Method:

NC-P/SP/NP

TOP code:

1299.00*

Can be Taken

99

time(s) for credit (max 4)

- Visual or Performing Arts course that is required to meet major requirements for UC/CSU

- Intercollegiate athletics course

- Academic/vocational competition course

Catalog Description:

(Please do not refer to transferability or degree, certificate, or employment concentration applicability. Please only describe the course).
(75 words or less in gray box below).

This course provides a comprehensive review of all major systems of the human body including their anatomy and physiology. These systems include the integumentary, skeletal, muscular, digestive, reproductive, nervous, endocrine, lymphatic, cardiovascular, respiratory and urinary. This course meets the A/P Recency requirement for students needing to apply to the Associate Degree Nursing Program at MSJC.

Schedule Description:

(Please do not refer to transferability or degree, certificate, or employment concentration applicability. Please only describe the course).
(25 words or less in gray box below).

This course provides a comprehensive review of all major systems of the body including their anatomy and physiology.

Need for the course:

The nursing department accepts applications for its ADN program from students who have taken ANAT-101 and ANAT-102 or the equivalents. However, if it has been more than 5 years since the applicant has taken these important foundational courses, they require the student to pass their Anatomy and Physiology TEAS recency exam. Traditionally, students out of recency with respect to these courses, have not done well on that exam, and the pass rate is about 25%. As a result, the nursing department, with the help of the Anatomy and Physiology department have created a 16 hour review course, complete with the necessary information as well as various assessments. If the applicant who is out of recency with ANAT-101 and ANAT-102 passes this review course with a score of 75% or higher on the assessment exams, he/she will be eligible to apply to the Nursing ADN program at MSJC.

Prerequisite(s):

Prerequisites go through a separate approval process. See Forms E1-E6 for details.
(For further clarification, contact the Prerequisite Subcommittee)

• ANAT 102 with a Grade of C or better. and

Corequisite(s):

Corequisites go through a separate approval process. See Forms E1-E6 for details.

-none-

Recommend Preparation:

Recommended Preparation goes through a separate approval process. See Forms E1-E6 for details.

-none-

Other Enrollment Criteria:

- Students need to be out of recency, meaning that they completed ANAT 101 and 102 more than 5 years prior to taking this course.

Learning Objectives:

(please number each objective and express in behavioral terms)

Upon the completion of the course the student will be able to do the following:

- 1. Investigate the scientific method and predict responses of the human body to various stimuli.
- 2. Correlate form and function in every body system studied.
- 3. Examine the details of every body system studied.
- 4. Prepare for the assessment exams by reviewing the course material.
- 5. Apply to the Associate Degree in Nursing program at MSJC.

Course Content:

(please number the outline of main topics and subtopics)

- 1. Introduction to Human Anatomy and Physiology
- 2. Cells and Tissues
 - a. Cells and their structure and function
 - b. Tissues and their structure and function
- 3. Integumentary System
 - a. Skin and its histology and function
 - b. Study of hair, nails and cutaneous glands
- 4. Skeletal Tissue and System
 - a. Skeletal structure including the axial and the appendicular skeleton
 - b. Bone tissue with study of its histology and physiology
- 5. Muscular System
 - a. Review of the major muscles of the body and their function
 - b. Review the histology of muscular tissue
- 6. Nervous System and the Special Senses
 - a. Spinal cord anatomy and physiology
 - b. The brain and cranial nerves
- 7. Endocrine System
 - a. Anatomy of the endocrine glands
 - b. Functions of the endocrine glands
- 8. Cardiovascular System
 - a. Anatomy of the heart
 - b. Physiology of the heart
 - c. Major vessels of the human body
- 9. Lymphatics and Immunity
 - a. Lymphatic system anatomy and physiology
 - b. Immune response to various stimuli
- 10. Respiratory System
 - a. Anatomy of the respiratory system
 - b. Physiology of the respiratory system
- 11. Digestion and Metabolism
 - a. Digestive system anatomy
 - b. Physiology of the digestive system
 - c. Metabolism of the body on a cellular level
- 12. Urinary, Fluids and Electrolytes
 - a. Anatomy and physiology of the urinary system
 - b. Fluid dynamics of the human body
- 13. Reproductive Systems

- a. Female reproductive anatomy and physiology
- b. Male reproductive anatomy and physiology

Lab Content:

(please number the outline of main topics and subtopics)

No lab content is present in the course.

Methods of Instruction:

Methods of instruction may include, but are not limited to the following:

- **Method:** Lecture
Integration: Lectures will enable the students to understand the correlation between form and function. The lectures will emphasize the details of the human body systems and how they function to maintain homeostasis.
- **Method:** Directed Study
Integration: Directed study of the course contents on Canvas will enable students to prepare for the lectures and for the examinations.

Methods of Evaluation:

A student's grade shall be determined by the instructor using multiple measures of performance related to the course objectives. Methods of evaluation may include but are not limited to the following:

- **Method:** Exams/Tests
Integration: The students in this course will be evaluated at the end of the first 8 hours of instruction and again at the end of the second 8 hours of instruction. They will be tested on their ability to correlate form with function and also their understanding of the various body systems. They will have to pass each section with a score of 75% or higher.
- **Method:** Quizzes
Integration: There will be quizzes given at the end of each system the students study. These quizzes will evaluate how well the students comprehend the details of the various body systems.

Examples of Assignments:

Students will be expected to understand and critique college level texts or the equivalent. Reading and writing, as well as out of class assignments are required. These assignments may include but are not limited to the following:

- Take notes on the lectures given
- Review lecture notes to prepare for assessments
- Make correlations between the material presented in lecture and textbook and atlas
- Study notes on Canvas
- Study the distribution of blood vessels. For example, a blockage in the external iliac artery will reduce blood flow to which region of the body?
- Study the cell's organelles and their function. For example, a cell lacking ribosomes would be unable to make what organic compound?

Textbooks:

- Tortora, G., J. Derrickson, B. (2018). *Principles of Anatomy and Physiology* Wiley. ISBN: 978-1-119-49203-0

Other Resources:

Minimum Qualification

- Biological Sciences (Masters Required)