I. CATALOG INFORMATION

A. Discipline: BIOLOGY

B. Subject Code and Number: BIOL M18

C. Course Title: Human Biology for Pre-Allied Health

D. Credit Course units:

Units: 3

Lecture Hours per week: 3

Lab Hours per week : 0

Variable Units : No

E. Student Learning Hours:

Lecture Hours:

Classroom hours: 52.5 - 52.5

Laboratory/Activity Hours:

Laboratory/Activity Hours 0 - 0

Total Combined Hours in a 17.5 week term: 52.5 - 52.5

F. Non-Credit Course hours per week _____

G. May be taken a total of: [X] 1 [ ] 2 [ ] 3 [ ] 4 time(s) for credit

H. Is the course co-designated (same as) another course: No [X] Yes [ ]
If YES, designate course Subject Code & Number: _____

I. Course Description:

Covers major aspects of human biology related to health science careers. Emphasizes the chemical, molecular, and physiological mechanisms underlying most common disease conditions.

J. Entrance Skills

*Prerequisite: No [X] Yes [ ] Course(s)

_____

*Corequisite: No [X] Yes [ ] Course(s)

_____

Limitation on Enrollment: No [X] Yes [ ]

_____

Recommended Preparation: No [X] Yes [ ] Course(s)

_____

Other: No [X] Yes [ ]

_____

K. Other Catalog Information:

Course Credit Limitation:

Credit will not be awarded for both BIOL M16 and BIOL M18 courses. Credit will be awarded only for the first course completed with a grade of "C" or better or "P".

II. COURSE OBJECTIVES

Upon successful completion of the course, a student will be able to:

		Methods of evaluation will be consistent with, but not limited by, the following types or examples.
1	classify the major categories of macromolecules in living cells and their role in the structure and the physiological functions of the body.	Exams Quizzes Case studies with clinical applications may be included
2	describe the basic anatomy of organs of the cardiovascular, respiratory, nervous, and endocrine systems and relate the structure of the organs to the physiological mechanisms underlying their operation.	Exams Quizzes Identification of structures Case studies and clinical applications may be included
3	distinguish differences in the basic structure of bacteria and viruses with emphasis on those that play important roles in most common human infectious diseases.	Exams Quizzes Identification of structures Case studies and clinical applications may be included
4	demonstrate an understanding of the scientific method through analysis and interpretation of data.	Exams Quizzes Identification of structures Case studies and clinical applications may be included
5	apply basic medical terminology to interpret standard references and literature of pre-allied health sciences.	Lecture exam Quizzes Identification of structures Case studies and clinical applications may be included

6	demonstrate the ability to perform unit conversions within and between the metric and English systems and express those results appropriately using scientific notation.	Exams Quizzes Identification of structures Case studies and clinical applications may be included
7	integrate general concepts of this class to understand and describe the pathophysiology of common disorders such as insulin resistance, obesity, glucose intolerance, dyslipidemia, hypertension, coronary artery disease, peripheral neuropathy, chronic obstructive pulmonary disease (COPD), and inflammation.	Exams Quizzes Identification of structures Case studies and clinical applications may be included

III. COURSE CONTENT

Estimated %	Topic	Learning Outcomes
Lecture (must total 100%)		
10.00%	Anatomical terminology	2, 5
10.00%	The chemistry of life	1, 5
30.00%	Basic structure and function of the cardiovascular, respiratory, nervous, and endocrine systems	1, 2, 5
20.00%	The pathology of common disease disorders such us insulin resistance, obesity, glucose intolerance, dyslipidemia, hypertension, coronary artery disease, peripheral neuropathy, COPD, and inflammation	1, 2, 3, 4, 5, 6, 7
10.00%	Graphing and interpretation of data from hypothetical patients	1, 2, 3, 4, 5, 6, 7
10.00%	Understanding the scientific method and its use in allied health science professions	4, 5, 6
10.00%	The world of bacteria and viruses and their role in human disease and health	1, 2, 3, 5, 7

IV. TYPICAL ASSIGNMENTS

A. Writing assignments

Writing assignments are required. Possible assignments may include, but are not limited to:	
1	writing an informative brochure or pamphlet describing and explaining a common human disease.
2	writing an essay describing the principles of homeostasis.

B. Appropriate outside assignments

Appropriate outside assignments are required. Possible assignments may include, but are not limited to:	
1	creating a table of medical terminology used in the allied health sciences.
2	gathering and critiquing data relevant to clinical applications.

C. Critical thinking assignments

Critical thinking assignments are required. Possible assignments may include, but are not limited to:	
1	mapping of physiological events that are common to the basic functions of the human body.
2	graphing of data to describe scientific observations and interpret variable relations.
3	analyzing of case studies to integrate concepts addressed in the course.

V. METHODS OF INSTRUCTION

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

☐ Distance Education – When any portion of class contact hours is replaced by distance education delivery mode (Complete DE Addendum, Section XV)

☒ Lecture/Discussion

☐ Laboratory/Activity

☒ Other (Specify) case scenario presentations with audio/visual aids;

☒ Optional Field Trips

☐ Required Field Trips

VI. METHODS OF EVALUATION

Methods of evaluation may include, but are not limited to:

☒ Essay Exam	☒ Classroom Discussion	☐ Skill Demonstration
☒ Problem Solving Exam	☐ Reports/Papers/ Journals	☒ Participation
☒ Objective Exams	☒ Projects	☒ Other (specify)

Student presentations
Data interpretation problems

VII. REPRESENTATIVE TEXTS AND OTHER COURSE MATERIALS

Colbert, Bruce J., et al. Anatomy and Physiology for Health Professions. 3rd ed. Pearson, 2016.

Roiger, Deborah, and Nia Bullock. Anatomy, Physiology, and Disease; Foundations for Health Professionals. 2nd ed. McGraw Hill, 2019.

VIII. STUDENT MATERIALS FEES

☒ No ☐ Yes

IX. PARALLEL COURSES

College	*Course Number*	*Course Title*	*Units*
No comparable courses found at CSU			

X. MINIMUM QUALIFICATIONS

Courses Requiring a Masters Degree:
Master's degree in any biological science OR bachelor's degree in any biological science AND master's degree in biochemistry, biophysics, or marine science OR the equivalent.

XI. ARTICULATION INFORMATION

A. Title V Course Classification:

1. This course is designed to be taken either:

   ☐ Pass/No Pass only (no letter grade possible); or
   ☒ Letter grade (P/NP possible at student option)

2. Degree status:
   Either ☒ Associate Degree Applicable; or ☐ Non-associate Degree Applicable

B. Moorpark College General Education:

1. Do you recommend this course for inclusion on the Associate Degree General Education list?
   Yes: ☒ No: ☐ If YES, what section(s)?

   ☒ A1 - Natural Sciences - Biological Science
   ☐ A2 - Natural Sciences - Physical Science
   ☐ B1 - Social and Behavioral Sciences - American History/Institutions
   ☐ B2 - Social and Behavioral Sciences - Other Social Behavioral Science
   ☐ C1 - Humanities - Fine or Performing Arts
   ☐ C2 - Humanities - Other Humanities
   ☐ D1 - Language and Rationality - English Composition
   ☐ D2 - Language and Rationality - Communication and Analytical Thinking
   ☐ E1 - Health/Physical Education
   ☐ E2 - PE or Dance
   ☐ F - Ethnic/Gender Studies

C. California State University(CSU) Articulation:

1. Do you recommend this course for transfer credit to CSU? Yes: ☒ No: ☐

2. If YES do you recommend this course for inclusion on the CSU General Education list?
   Yes: ☒ No: ☐ If YES, which area(s)?

   A1 ☐ A2 ☐ A3 ☐ B1 ☐ B2 ☒ B3 ☐ B4 ☐

   C1 ☐ C2 ☐ D1 ☐ D2 ☐ D3 ☐ D4 ☐ D5 ☐

D6 ☐ D7 ☐ D8 ☐ D9 ☐ D10 ☐ E ☐

D. University of California (UC) Articulation:

1. Do you recommend this course for transfer to the UC? Yes: ☐ No: ☒
2. If YES do you recommend this course for the Intersegmental General Education Transfer Curriculum (IGETC)? Yes: ☐ No: ☒

IGETC Area 1: English Communication

- ☐ English Composition
- ☐ Critical Thinking-English Composition
- ☐ Oral Communication

IGETC Area 2: Mathematical Concepts and Quantitative Reasoning

- ☐ Mathematical Concepts

IGETC Area 3: Arts and Humanities

- ☐ Arts
- ☐ Humanities

IGETC Area 4: Social and Behavioral Sciences

- ☐ Anthropology and Archaeology
- ☐ Economics
- ☐ Ethnic Studies
- ☐ Gender Studies
- ☐ Geography
- ☐ History
- ☐ Interdisciplinary, Social & Behavioral Sciences
- ☐ Political Science, Government & Legal Institutions
- ☐ Psychology
- ☐ Sociology & Criminology

IGETC Area 5: Physical and Biological Sciences (mark all that apply)

- ☐ Physical Science Lab or Physical Science Lab only (none-sequence)
- ☐ Physical Science Lecture only (non-sequence)
- ☐ Biological Science
- ☐ Physical Science Courses
- ☐ Physical Science Lab or Biological Science Lab Only (non-sequence)
- ☐ Biological Science Courses
- ☐ Biological Science Lab course
- ☐ First Science course in a Special sequence
- ☐ Second Science course in a Special Sequence

☐ Laboratory Activity
☐ Physical Sciences

IGETC Area 6: Language other than English

☐ Languages other than English (UC Requirement Only)
☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)
☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)

XII. REVIEW OF LIBRARY RESOURCES

A. What planned assignment(s) will require library resources and use?

The following assignments require library resources:
Use the Library's print and online resources to research scientific literature on human disease discussed in class, such as diabetes and cancer.

B. Are the currently held library resources sufficient to support the course assignment?

YES: ☒ NO: ☐

If NO, please list additional library resources needed to support this course.

XIII. PREREQUISITE AND/OR COREQUISITE JUSTIFICATION

BIOL M18: Not Applicable

XIV. WORKPLACE PREPARATION

BIOL M18: Not Applicable

XV. DISTANCE LEARNING COURSE OUTLINE ADDENDUM

BIOL M18: Not Applicable

XVI. GENERAL EDUCATION COURSE OUTLINE ADDENDUM

General Education Division of Learning [check all applicable boxes]:

☒ Natural Sciences
- ☒ Biological Science
- ☐ Physical Science

☐ Social and Behavioral Sciences
- ☐ American History/Institutions
- ☐ Other Social Science

☐ Humanities
- ☐ Fine or Performing Arts
- ☐ Other Humanities

☐ Language and Rationality
- ☐

☐ English Composition

☐ Communication and Analytical Thinking

☐ Health/Physical Education

☐ Ethnic/Women's Studies

Check either Option 1 or Option 2

☒ **OPTION #1:** Moorpark College has already received approval from the CSU and/or UC systems for this course to fulfill a GE requirement. Note: This option applies only to technical revisions and updated courses.

☐ **OPTION #2:** Moorpark College has not received approval from the CSU and/or UC systems for this course to fulfill a GE requirement. This option applies to all new and substantively revised courses.

XVII. STUDENT MATERIALS FEE ADDENDUM

BIOL M18: Not Applicable

XVIII. REPEATABILITY JUSTIFICATION TITLE 5, SECTION 55041

BIOL M18: Not Applicable

XIX. CURRICULUM APPROVAL

Course Information:

Discipline: BIOLOGY

Discipline Code and Number: BIOL M18

Course Revision Category: Outline Update

Course Proposed By:

Originating Faculty Audrey Chen 09/12/2018

Faculty Peer: Paul Kores 09/13/2018

Curriculum Rep: Beth Miller 09/14/2018

Department Chair: Audrey Chen 09/12/2018

Division Dean: Carol Higashida 09/13/2018

Approved By:

Curriculum Chair: Jerry Mansfield 02/08/2019

Executive Vice President: _____

Articulation Officer: Letrisha Mai 02/06/2019

Librarian: Mary LaBarge 02/05/2019

Implementation Term and Year: Fall 2019

Approval Dates:

Approved by Moorpark College Curriculum Committee: 02/19/2019

Approved by Board of Trustees (if applicable): _____

Approved by State (if applicable): 02/27/2019