

**Nashville State Community College**  
**Science, Technology, Engineering, Mathematics Division**  
**Biology Program**

**Master Course Syllabus**

**BIOL 2020 – Anatomy and Physiology 2**

*(This master course syllabus template is a general guide for providing an overview of each course offered at Nashville State. Each instructor will further clarify specific criteria for grading, classroom procedures, attendance, exams and dates, etc. on his/her individual course syllabus.)*

**Course Information:**

**Course Title:** Anatomy and Physiology 2

**Credits:** 4

**Class Hours:** 3

**Lab Hours:** 3

**Course Description:**

A continuation of BIOL 2010 designed primarily for students interested in entering health-related fields that will count as a biology elective. Topics include: the cardiac, vascular, hematologic, respiratory, immune, urinary, digestive, reproductive, and endocrine systems.

Prerequisite: A grade of “C” or better in BIOL 2010

**Instructor Information:**

**Name:**

**Email:**

**Office Phone:**

**Office Location:**

**Office Hours:**

**Required Textbook(s) & Other Materials:**

**Textbooks:**

- *Fundamentals of Human Anatomy and Physiology*, 11th edition; Authors: Martini, Nath, and Bartholomew; Publisher: Pearson Benjamin Cummings (ISBN: 9780134394954 ) includes access code for Mastering A and P.
- Custom version of *Laboratory Manual for Human Anatomy and Physiology*, 3rd edition; Publisher: McGraw Hill (ISBN 9781308942902)

### **Access Code:**

Students who purchase a used copy of the textbook must also purchase an access code for Mastering A and P for *Fundamentals of Human Anatomy and Physiology*, 11th edition.; Publisher: Pearson Benjamin Cummings (ISBN: 9780134478692 )

Once enrolled, all students should verify that they have the correct textbook and materials information by consulting the D2L/NS Online shell for the course. If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center at 615-353-3721, 615-353-3741, or [accesscenter@nsc.edu](mailto:accesscenter@nsc.edu).

### **Optional Materials:**

*Anatomy & Physiology Coloring Workbook*; Author: Elaine Marieb; Publisher: Pearson Benjamin Cummings (ISBN: 9780134459363)

### **Course Outcomes:**

Upon successful completion of this course, students should be able to:

- Identify by the name, and describe the location, gross and microscopic structure and physical interrelationships of all organs covered in the course.
- Describe the function of the cardiovascular, respiratory, hematologic, lymphatic/immune, digestive, urinary, endocrine and reproductive systems, as well as the concepts of fluid, electrolyte and acid-base balance.
- Analyze the concept of homeostasis and the logical and critical interdependence of the body's organs and organ systems.
- Appraise how structure denotes function and function denotes structure at the gross and cellular levels in the organ systems studied.
- Apply acquired knowledge of normal anatomy and physiology of the organ systems studied to make predictions, at the gross and microscopic levels of the effects of altered (abnormal) structure and function.
- Formulate a hypothesis concerning normal and altered physiology. Conduct an experiment that tests the hypothesis. Analyze and explain the results.

### **Topics to Be Covered:**

#### **Course Topics**

- Heart anatomy and physiology
- Vascular anatomy and physiology
- Blood
- Immunity
- Lymphatic system
- Respiratory system
- Digestive system
- Urinary system
- Fluid, electrolyte, acid-base balance
- Endocrine system
- Reproductive system

## Lab Topics

- Scientific method
- Heart anatomy
- Cardiovascular physiology
- Blood vessels
- Blood—microscopy and blood type
- Lymphatics
- Respiratory anatomy and physiology
- Renal anatomy
- Digestive system
- Endocrine system
- Reproductive system

## Course Assessments:

The following performance assessments will be used to demonstrate students' understanding, knowledge, and skills:

### Lecture Tests

- Lecture tests may include multiple choice, short answer, matching, fill-in-the-blank, true-false and picture/diagram labeling questions.
- Lecture tests will be closed-book and closed-note.

### Labs/Homework/In-class group work/Papers/Presentations

- Assignments covering a variety of topics will be given during the course of the semester. The format of the material will be at the discretion of the instructor.
- Assignments may be completed in class or outside class at the discretion of the instructor.
- Some assignments may be completed on-line (see Technology Statement below).

### Laboratory Practical Exams

- Lab practical exams may include identification on lab models, photographs, drawings, microscopic slides, or preserved animal specimens.
- Laboratory Practical Exams will be closed-book and closed-note.

### Cumulative Exams

- One or more cumulative exams will be given.
- Cumulative Exams will be similar in format to the Lecture Tests.

## Grading Policy:

Final calculation of the course grade will be based on the following percentages:

- Lecture Tests - 50-60%
- Labs/Homework/In-class group work/Papers/Presentations - 15%
- Laboratory Practical Exams - 20-25%
- Cumulative Midterm or Final Exams - 10-15%

Proctored, closed-book and closed- note tests and exams will contribute a minimum of 85% to the final grade.

Opportunities for extra credit points may be offered throughout the semester at the instructor's discretion.

There will be no extra credit projects given to improve a poor grade.

### **Late Work Policy & Make-up Procedures for Missed Assignments and Work:**

*(Each instructor will provide policy)*

### **Attendance Policy**

Students are expected to attend all scheduled classes and laboratories. Absences in a course may affect a student's final grade. The student is responsible for all assigned work in the course regardless of excused or unexcused absences. Tardiness may also affect a student's final grade.

*(Each instructor will provide policy, especially how attendance influences student assessment and grading.)*

### **Grading Scale:**

Letter Grade	Percentage Range
A	89.5 - 100.00
B	79.5 - 89.49
C	69.5 - 79.49
D	59.5 - 69.49
F	Less than 59.5

#### **FA**

According to NSCC policy, if a student fails a course, but has not officially withdrawn from the course, and her/his last date of attendance is before the last date to withdraw (*use date appropriate to your section*), the student will receive a grade of FA (i.e., "Failure for Attendance Reasons").

#### **FN**

An FN is awarded to students who never attended class.

### **Technology Statement**

Nashville State's classes are considered to be web-enhanced. Faculty have an expectation that students will use a computer and the Internet to complete assignments, engage in online discussions, and access various course materials through D2L/NS Online course shells. Computers are available for student use at each campus during campus open hours.

### **D2L/NS Online and myNSCC**

It is students' responsibility to check D2L/NS Online course shells for all enrolled courses and myNSCC, including student email, on a regular basis. These are the official communication channels between the college and students, who are responsible for the information communicated through those channels. D2L/NS Online contains specific course information and myNSCC contains information important for other purposes.

## **ADA Compliance Statement**

Nashville State complies with the Americans with Disabilities Act (ADA). If you require accommodations for any courses in which you are enrolled, contact the Access Center at 615.353.3741 or 615.353.3721, or e-mail [accesscenter@nsc.edu](mailto:accesscenter@nsc.edu). If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center.

## **Classroom Misconduct**

Nashville State Community College has a zero-tolerance policy for disruptive conduct in the classroom. Students whose behavior disrupts the classroom will be subject to disciplinary measures. Please review the [Nashville State Student Code of Conduct policy](#). Please be aware that children are not allowed in class or to be left unattended on campus.

## **Academic Misconduct**

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. Students are responsible for understanding and abiding by the [Academic Misconduct Policy](#) in the Nashville State Student Code of Conduct. In addition to other possible disciplinary measures that may be applied through regular college procedures as a result of academic dishonesty, the instructor has the authority to assign an "F" or a "zero" for the exercise, paper, or examination, or to assign an "F" for the course. Students may appeal through the appropriate college grade appeal procedures.

*(Each instructor will outline his/her expectations for academic integrity and provide individualized information about consequences for academic misconduct.)*

## **Academic Early Alert System**

Nashville State Community College uses an Early Alert System to let students know of a faculty member's concern in one or more of these academic areas: lack of attendance, lack of classroom participation, late or missing assignments, and/or poor performance on assignments/tests. \*Please note that Early Alerts do not affect a student's academic standing. If you receive an Early Alert email, please see your instructor and your academic advisor as soon as possible.

## **RAVE Emergency Alert System**

Emergency events can happen at any time and Nashville State Community College wants to be able to notify students if and when they occur. For this reason, all students have been enrolled in the free RAVE alert system. If you have not already done so, please log in at <https://www.getrave.com/login/nsc> to confirm and update your contact information and notification preferences. It is critical that your information be correct so that you will receive any emergency notifications. Your RAVE Username is your NSCC email address. If you've never received an email from RAVE with your password, or if you need to reset your password, select "Forgot your password?" and a new password will be emailed to you. Should the RAVE system indicate "user not found", select Register and create your own RAVE account.

## **Inclement Weather & Campus Closings**

Nashville State will use the RAVE alert system to send a text message to students, staff, and faculty about adjusted hours of operation and/or closings at individual campuses. All students should check the

Nashville State web site home page at [www.nsc.edu](http://www.nsc.edu) for announcements on campus closures, which may vary from campus to campus. Campus closures will also be announced on local television stations. Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.

Even when campuses are closed, students are still responsible for completing all assigned work. When classes are cancelled, faculty will post online assignments and any additional instructions in the D2L/NS Online course shell. Check D2L/NS Online for a message from your instructor regarding your online assignment requirements. Faculty have discretion over adjusting deadlines or due date for assignments, but students are responsible for completing all assigned work by the due date established by the instructor.

### **Class Cancellation Policy**

If the class is cancelled, the instructor will notify all students by posting in the D2L/NS Online course, e-mailing through D2L/NS Online, and/or by posting a sign on the classroom door. In the event of class cancellation, students must access D2L/NS Online to complete classwork and the assignment that will be posted in the course D2L site.