**BSC105 – Human Biology (Fall 2018)** **https://www.youtube.com/watch?v=xZ9nvYCDUUw**

Lecture S376 M, W, F 11a – 11:50a

Labs S273

Sec. 101 M, 12:00p - 1:50p

Sec. 102 T, 08:00a - 09:50a

Sec. 103 T, 10:00a - 11:50a

Sec. 104 T, 12:00p - 1:50p

**Dr. Nicki LoCascio** (Biology)

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Office hours: T 3:30 - 5pm; W 12 - 1:30pm or by appointment. I make every effort to keep my scheduled office hours. Please be aware that sometimes I have conflicts with required meetings and cannot be present. If you need to meet it is best to e‐mail me ahead of time. **Please use above e‐mail account to contact me and NOT the MUOnline site.**

**UNIVERSITY POLICIES**: By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to [www.marshall.edu/academic-affairs/policies/](http://www.marshall.edu/academic-affairs/policies/). Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment

**COURSE DESCRIPTION:** Fundamentals of biological human structure, function, and interactions with the environment. Intended for non-science majors. Does not count for health professions credit. 4Crs. No prerequisites

Lectures will introduce students to how humans are related to other living organisms, cell function, basic human anatomy, and fundamental functions of the human body, human genetics, human evolution and human impact on the global ecology. In the laboratory, students will interact with and observe specimens as a way of reinforcing what was learned in the classroom.

**REQUIRED TEXTS**

**Lecture:** Human Biology, 15th Edition. Sylvia S. Mader, Michael Windelspecht.

ISBN: 9781260152487

**Lab:** Human Biology for Non-Majors Laboratory Manual. Susan Weinstein. 16th Edition.

ISBN: 9781617403354 (Only available from the Marshall University Bookstore)

**GRADING SCALE**: 100 ‐ 90% = A; 89 ‐ 80% = B; 79 ‐ 70% = C; 69 ‐ 60% = D, < 59% = F

**ASSESSMENT OF STUDENT ACHIEVEMENT**

Exams (4) 80%

Laboratory 20%

**TOTAL possible: 100%**

Each exam, including the final, will be 20% of final grade. You will be tested on lecture notes and assigned readings from text chapters. Format for the exams will be objective and some short answer essays. Laboratory performance will contribute the other 20% of your course grade.

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| **Course Student Learning Outcomes**  | **How students will practice each outcome in this course** | **How student achievement of each outcome will be assessed in this course** |
| * Know the scientific method used in biologic investigations
 | Lectures; laboratory exercises; class participation | Exams; laboratory quizzes and report |
| * Understand how humans are related to other living organisms and understand the unity and diversity of life at the molecular and cellular levels
 | Lectures, laboratory exercises and class discussion. | Exams; laboratory quizzes |
| * Demonstrate an understanding of structure and function relationships using basic human anatomy and physiology
 | Lectures; laboratory exercises; class discussion and assigned readings. | Exams; laboratory quizzes |
| * Understand the relationships between form and function in biological organization
 | Lectures; preparing notes on readings; responding to questions in class; class discussion | Exams |
| * Know how heredity is transmitted through generations making possible the continuity of life
 | Lectures; laboratory exercises; responding to questions in class; class discussion | Exams; laboratory quizzes |
| * Understand and connect knowledge of cell biology, genetics and evolution as they apply to human biology
 | Lectures; responding to questions in class; class discussion | Exams |

**LECTURE ATTENDANCE POLICY:** *Attendance in lectures is strongly encouraged. You are responsible for any material missed by being absent.* Absences due to illness, death in the immediate family, or institutional activities will be excused with the appropriate written notification to the instructor. See Marshall University Undergraduate Catalogue ‐ Academic Information for guidelines. Until final grades have been submitted you are expected to keep copies of all submitted and graded work (quizzes, papers etc).No makeup exams will be permitted without an official excuse sent by Dean of Students office. Form available at <http://www.marshall.edu/student-affairs/excused-absence-form/>

*Herd Path Program* - lecture sessions will be participating in this freshman retention program. Please swipe your MU ID card at the scanner when you enter.

**LABORATORY ATTENDANCE POLICY AND LAB GRADES:** Your lab grade will be calculated from 13 exercises. For each of the 13 laboratory exercises students must turn in to their GA a data sheet. Each data sheet must be handed in by the end of each lab period; no late data sheets will be accepted. Any data sheet not turned in before the student leaves lab will be counted as a zero. During the semester one data sheet grade will be dropped, resulting in a total of 120 points possible (10 points/data sheet) for the lab portion of your course grade. There are no makeup labs and students with unexcused absences will receive a zero for that week's data sheet. A student who feels they have reason to ask for an exception to the absence policy must speak to their lecturer. Any such adjustments are made by course lecturer, not by the GA. MU's policy on Excused Absences: http://www.marshall.edu/academic-affairs/policies/#ExcusedAbsences Please make sure you know how to contact your GA during the semester.

**COMPUTER LITERACY:** Course materials are located on course website at

**http://www.marshall.edu/muonline**. Log‐in using your MyMU user name and password. If BSC 105 is not listed on homepage, notify instructor immediately.

**WITHDRAWAL:** If you are not happy with your academic performance in this class please come see me. Students should keep the W date for this semester, October 26, clearly in mind. Do not just stop attending. This will result in an F on your transcripts. The Biology department does have graduate students available for tutoring.

**ELECTRONIC DEVICES:** No electronic devices, EVER, during tests. Cell phones are to be turned off during lecture. Please inform the instructor should there be a need to have a cell phone on. Students will be asked to leave if they are causing a distraction for instructor or other students.

***ACADEMIC DISHONESTY IN ANY FORM WILL NOT BE TOLERATED***.

All written assignments, quizzes, and exams are to be independent efforts of each student. If you have any questions please ask.

**LECTURE SCHEDULE [Subject to Change]**

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| **Week #** | **Week of:** | **Topic** | **Chapter(s)** |
|  | August 20 | Exploring Life and Science / Chemistry of Life  | 1, 2  |
|  | August 27 | Cell Structure and Function / Organization of Body Systems  | 3, 4 |
|  | September 3 | Labor Day Holiday- University Closed |
|  | September 5 | Cardiovascular Sys: Heart, Vessels  | 5 |
|  | September 10 | Cardiovascular Sys: Blood / **Exam 1 9/14/18** | 6 |
|  | September 17 | Lymphatic and Immune System / Biology of Infectious Diseases  | 7, 8 |
|  | September 24 | Digestive System / Respiratory System  | 9, 10 |
|  | October 1 | Urinary System / Skeletal System  | 11, 12 |
|  | October 8 | Muscular System / **Exam 2 10/2/18** | 13 |
|  | October 8 | Freshmen/Sophomore midterm grades due |
|  | October 15 | Nervous System / Senses  | 14, 15 |
|  | October 22 | Endocrine System, Reproductive System  | 16, 17 |
|  | October 26 | Last day to drop a full semester individual course |
|  | October 29 | Development and Aging / Patterns of Chromosome Inheritance | 18, 19 |
|  | November 5 | Cancer / **Exam 3 11/9/18** | 20 |
|  | November 12 | Patterns of Genetic Inheritance / DNA Biology and Technology  | 21, 22 |
|  | November 19 - 24 | Thanksgiving Break |
|  | November 26 | Human Evolution / Global Ecology and Human Interference  | 23, 24 |
|  | December 3 - 7 | Dead week |  |
|  | December 3 | Human Population, Global Resources, and Conservation  | 25 |
|  | December 11 | **Final Exam 10:15 – 12:15** |  |

**LABORATORY SCHEDULE**

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|  | **Week of:** | **Laboratory Exercise** |
|  | August 20 | Laboratory Safety |
|  | August 27 | Scientific Measurement and Data Presentation |
|  | **September 3** | **Labor Day Holiday. No labs this week** |
|  | September 5 | A Microscopic Investigation of Cell Differences and Similarities |
|  | September 10 | The Circulatory System |
|  | September 17 | The Immune System |
|  | September 24 | Chemical Aspects of Digestion |
|  | October 1 | The Skeleton and Locomotion |
|  | October 8 | The Nervous System, Sense Organs, and Perception |
|  | October 15 | Separating Molecules in a Mixture Using Size Exclusion Chromatography  |
|  | October 22 | Human Embryology: From Fertilization to Birth |
|  | October 29 | Human Genetics: How Traits Are Inherited |
|  | November 5 | Protein Synthesis: Transcription and Translation |
|  | November 12 | Population Growth and the Impact of Humans on the Environment |

