

**Year 1 – Block 2**  
**Body Basics: Elements of Bioscience**

**Course Description and Goals:**

This block of the first year curriculum covers basic biochemistry, molecular biology, genetics and histological concepts essential as prerequisites to the organ systems. Faculty from Anatomy and Cellular Biology, Biochemistry, Physiology and several clinical departments teach in this block. By the end of this block, students will be able to demonstrate:

1. understanding of normal cellular structure as it relates to function.
2. basic understanding of cellular metabolism and its relationship to cell and tissue structure.
3. understanding of how cellular malfunction can lead to pathological conditions and a working knowledge of cellular processes whose measurements in patients are of clinical significance.
4. understanding of basic principles of biochemistry and genetics
5. basic understanding of biostatistics

**Block Co-Directors:**

James P. Burke, Ph.D.  
Department of Biochemistry  
215-707-3270  
[jburke@tuspm.temple.edu](mailto:jburke@tuspm.temple.edu)

Jim Collins, Ph.D.  
Department of Biochemistry  
215-707-7898  
[jcollins@temple.edu](mailto:jcollins@temple.edu)

**Evaluation of Student Performance and Examination Policies:**

There are two objective multiple choice examinations and laboratory reports used to evaluate student performance.

Composition of the Final Grade:

Activity	Range of Topics Covered	<u>Percent of Final Grade</u>
Midterm	material up to exam 1	52%
Final	material from exam 1 to 2	44%

Labs:

Reports for these Labs:

1. Case histories – Lipids	1 %
2. Dietary Analysis	2 %
3. Diagnostic blood chemistries	<u>1 %</u>
	100%

Based on school policy, 70% is a passing grade for the course. Honors is given to the top 12+/- 4%; High Pass to the next 20+/-5.

**Disability accommodation:**

Any student needing an accommodation must contact Dr. Sterling at (215) 707-4613 to discuss the specific situation. Temple University Disability Resources and Services can be contacted at (215) 204-1280.