

Anatomy and Physiology II

Learning Guide: Specific Host Immunity

Overview – If nonspecific host defenses fail to contain the growth of a pathogen, the outcome could be dire. At this point, a Specific Host Immune Response (sometimes called Adaptive Immunity) will be mounted to fight the pathogen. This Specific Host Immune Response is divided into two divisions:

- Humoral Immunity
- Cellular Immunity

By these divisions, we will examine several ways these immune responses may fight infection. We will also preface this discussion with a look at the development of adaptive immunity and other introductory points.

Review Topics – How this topic fits into the hematopoiesis flow chart will be reviewed. Also, the body's transition from a nonspecific immune response to a specific response will be highlighted.

Getting Started – The basic concepts will be the most challenging part of dealing with specific host immunity. You will find a separate handout for the "Introduction to Immunity" before tackling the "Adaptive Immunity" responses. If your foundation is strong, the actual immune paradigms tend to fall neatly in place. The handouts can be found [HERE](#).

Exam - the nature of the exam will depend upon the exam modality.

In-Class Exam – The exam will be a typical exam with typical question types and some special concerns that require special attention. The main exam issues are:

- **General Questions** – There will be general questions on the "Introduction to Immunity" handout. This will be followed by examples of Adaptive Immunity found in the handout.
- **Illustration** - Students will illustrate “Interplay between Cellular and Humeral Immunity Responses” (25 points)
- **Guided Essay** – There is a guided essay (52 points) on “Interplay between Cellular and Humeral Immunity Responses.”

Important Procedural Points – When you take the exam, there will be two Parts:

- **Part #1** – You will first do the Illustration. When it is complete, you will hand it in.

- **Part #2** – Once the Illustration is complete and handed in, you will be given the remainder of the exam. This part will have the General Questions and the Guided Essay.

Blackboard Exam – The exam will have a typical question type.

- **General Questions**—General information is explored using matching and multiple-choice questions that cover the "Introduction to Immunity" and "Adaptive Immunity" handouts.
- **Guided Essay** – A guided essay (52 points) on "Interplay between Cellular and Humeral Immunity Responses" requires special preparation.

Laboratory – The first lab practical is forthcoming.
Continue to review. Check your [Course Schedule](#) for the date.

Final Point – Listen very closely to the foundational discussion on immunity. The concepts presented here will be vital for understanding the actual immune responses.