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## Course Overview

### Course Outline – Introduction to Pharmacology

[Section I: Intro to Pharmacokinetics and Administration](#)

Section II: Absorption and Distribution

Section III Metabolism

Section IV: Excretion and Elimination kinetics

Section V: Pharmacodynamics: Intro to Drug Action

Section VI: Receptor Biology and Drug Receptor Interaction

Section VII: Receptor Biology; G Protein Coupled Receptors

Section VIII: Dose Response

Section IX: Drug Development part I

Section X: Drug Development part II

Section XI: Drug development part III if necessary

### Course How To

This page explains the mechanics you need to know for Pharmacology: Principles of Pharmacology and Major Drugs - what they do and how they work (Pharm), browsers, the weekly schedule, how to access lectures, documents, and assessment questions.

#### Browsers

Note that Pharm makes pretty aggressive use of modern web (HTML) features, so it requires a very modern browser. Any recent version of Firefox, Chrome, and Safari are fine. The latest version of Internet Explorer (IE9) should also work. Firefox gives slightly better error messages for student code which can be helpful, but other than that, any of these browsers is ok.

#### Typical Week -- Lectures and Assessment Quizzes

The basic structure of the class is that each week, we release a new lecture. You can watch the lectures whenever is convenient for you. The **Lectures** link at the left links to a page of all the lectures, outlined by week. Each lecture is about 10-20 minutes. You can get to almost everything you need from the **Lectures** link; it's probably the most useful link on the home page. Each lecture has three things paired with it – goals and objectives for the lecture, a lecture presentation, and a series of assessment questions. The basic plan is that each week, you watch the lectures, and then complete the exercise for each lecture within about 8 days. There is some flexibility in the system if you need to complete the questions later. So in a typical week, you will watch one lecture and complete one series of questions.

Note that the little questions that pop up in the middle of the lectures sometimes are optional, just so you can check that you understand the concepts. The assessment questions for each lecture are separate. You can save your answers for each assessment series should you be interrupted.

#### Lecture Document

The **lecture document** for each video is a presentation document that goes through more or less the same explanations and live examples as the video lecture. If you ever want to re-visit something from lecture, just go to the lecture document for that lecture. The lecture document can be downloaded via a link to the right of each lecture video on the Lectures page.

#### Assessment Questions

The **assessment questions** for each lecture are made of a few multiple choice questions. Probably the easiest way to get to an exercise is from the **Lectures** list, there's a little square button for each lecture that jumps to its associated exercise. Alternately, you can go to the **Assessment** link, and there's a list of all the assessment questions that parallels the list of lectures. You can submit any number of times. Note that the little questions that pop up in the middle of the lectures sometimes are optional, just so you can check that you understand the concepts. The assessment questions for each lecture are separate. You can save your answers for each assessment series should you be

interrupted.

**Forums**

The forums are available for students to ask questions if they are curious or get stuck, and of course for students to help each other. Please help people without pasting in full answers to the questions – help them with the issue at hand, but let them work out the answers for themselves. The staff will monitor the forums as well to assist those taking the course.

**Timing**

You should attempt to complete each lecture's assessment questions within the week.

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