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BMED 641.01: Principles of Toxicology

Andrij Holian

University of Montana - Missoula, andrij.holian@umontana.edu

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Principles of Toxicology (BMED 641)

Fall 2005

Course Coordinator: Andrij Holian, Ph.D.

Textbook: Casarett & Doull's Toxicology 6th Edition and current literature

RM Skaggs 111

The class will meet 8:10 AM to 10:00 AM Tuesday and Thursday

- August 30 Chapter 1 History and Scope of Toxicology – Holian
Chapter 2 Principles of Toxicology – Holian
- September 1 Chapter 3 Mechanisms of Toxicity – Holian
- September 6 Chapter 3 Mechanisms of Toxicity – Holian
- September 8 Chapter 4 Risk Assessment – Schumpert
- September 13 Chapter 3 Mechanisms of Toxicity – Holian
Chapter 5 Absorption, Distribution and Excretion of Toxicants – Holian
- September 15 Chapter 5 Finish and literature on Chapter 3 – Holian
- September 20 Chapter 6 Biotransformation of Xenobiotics – Cochran
- September 22 Chapter 6 Biotransformation of Xenobiotics – Cochran
- September 27 Chapter 6 Cytochrome P450 enzymes (pg 172-196) - Cochran
- September 29 Chapter 7 Toxicokinetics - Cochran
- October 4 EXAM 1
- October 6 Chapter 8 Chemical Carcinogenesis – Pershouse
- October 11 Chapter 9 Genetic Toxicology – Putnam
- October 13 Chapter 9 Genetic Toxicology – Putnam
- October 18 Chapter 13 Toxic responses of the Liver – Holian
- October 20 Chapter 13 Toxic responses of the Liver – Holian
- October 25 Chapter 12 Toxic responses of the Immune System - Pfau
- October 27 Chapter 12 Toxic responses of the Immune System - Pfau

November 1 Chapter 11 Toxic responses of the Blood - Holian
November 3 EXAM 2
November 8 Chapter 10 Developmental Toxicology – Coffin
November 10 Chapter 10 Developmental Toxicology – Coffin
November 15 Chapter 14 Toxic responses of the Kidney - Beall
November 17 Chapter 14 Toxic responses of the Kidney - Beall
November 22 Chapter 15 Toxic responses of the Respiratory System – Holian
November 24 THANKGIVING
November 29 Chapter 15 Toxic responses of the Respiratory System – Holian
December 1 Chapter 16 Toxic responses of the CNS – Cardozo-Pelaez
December 6 Chapter 16 Toxic responses of the CNS – Cardozo-Pelaez
December 8 Literature presentations - Holian
December 13 EXAM 3

Grade Each of the three exams will equal 25% of the final grade
25% will come from discussion of literature articles and class participation