Abraham Baldwin Agricultural College
BIOL 3250–Toxicology

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Pre-requisite Courses:
CHEM 2040/2040L and BIOL 1108/1108L

Course objective:
To increase your knowledge on the essentials of toxicology, including toxicity
determinations and measurements, and biological factors important in understanding
toxicity. A review of toxic substances in air, water, foods, and the workplace with a
consideration of exposure limits, their rational and evaluation methods.

Course Learning Outcomes:
1) Demonstrate knowledge of the basic principles of toxicology
2) Demonstrate knowledge of the biotransformation of toxic chemicals
3) Demonstrate an understanding of the effects of toxic chemicals on environmental systems
4) Demonstrate an understanding of the impacts of toxic chemicals on biological organisms
5) Demonstrate knowledge of the types of toxic chemicals in the environment

Required Text:
Introduction to Toxicology, 3rd edition. John Timbrell, author

Attendance:
All students are expected to attend ALL class meetings and to BE ON TIME.
Attendance will be taken at the beginning of each class meeting. Any problem that affects
attendance should be discussed with the instructor. Students who enter class after the first
5 minutes will be noted as late on the attendance sheet. After 2 late entries are recorded,
one point will be taken from the student’s next exam grade for every late entrance after
that.

Absences:
Excused absences are those in which you have a written excuse from the health center,
doctor, advisor, or academic office. Excuses must be brought to the instructor at the next
class time. Excused absences are still absences and will count as absences. Sleeping
during class constitutes as an absence. Absence from class for whatever reason does not
excuse students from full responsibility for class work or assignments missed.

Withdrawal:
A student may withdraw from a course up to the midpoint of the semester and receive a
grade of W without penalty. After midterm, students may withdraw only with the
permission of the Academic Dean, if permission is granted students will be assigned a W
or WF according to their averages at the time they withdrew. Students who simply abandon class will be given F’s at the end of the semester. See the college catalog for the college policy on class withdrawal.

**Grading:**
The total grade will be distributed in the following manner based on earned points:

- Hourly Exams: 5 @ 100pts each = 500 pts
- Comprehensive Final Exam = 200pts
- Quizzes: 5 @ 10pts each = 50 pts.
- Oral Presentation = 100pts

Total Points Possible: 850pts

A = 765-850 (90%-100%)
B = 680-764 (80%-89%)
C = 595-679 (70%-79%)
D = 510-594 (60%-69%)
F = Below 510 (less than 60%)

All assignments which are late will receive a penalty of one letter grade for each day late. All written assignments must be turned in typed and neat.

**Exams:**
Student enrolled in classes in the School of Science and Mathematics will be expected to demonstrate an understanding of subject matter requiring higher order processing skills. Examination questions may include essay, synthesis, analysis, and application, as well as completion, multiple choice, true false, and matching. Computational skills and drawing or diagramming may also be required.

There will be no early exams or make-up exams, unless approved by the instructor BEFORE the exam. Unexcused missed exams will earn a zero and will be part of your final averaged grade for the course.

Each student is expected to provide their own Scranton forms for each regular exam and the final (total = 6). Students will be responsible for bringing their scantrons to each exam.

Exam grades are returned in the form of the Scantron and short-answer section. The exam questions are not returned to the student, but kept in the instructor’s office. After exam grades have been returned a time period of 1week will be available for students to view the exam questions during the posted office hours. No scanning, pictures, or photocopying is allowed.

**Quizzes:**
Each quiz will consist of 10 questions. Quizzes will be administered through Desire to Learn (D2L) approximately a week before each regular exam. It is the responsibility of the student to complete each quiz by the due date. Access to each quiz will be for 24
hours prior to the due date, but once started each quiz will be limited to a 10 minute time span. No make-up quizzes will be given.

**Oral Presentation:**
Each student will present a PowerPoint presentation on a toxicant/toxin of their choosing. A list of common toxins will be available on D2L to choose from, but feel free to research your own. Each student must turn in their toxin choice to the instructor by midterm (October 5th). Students will research their topic using a minimum of 3 sources (journal articles or textbooks). No website will be allowed unless it is in addition to 3 other sources (must be a reputable website). The research on the topic will then be used to prepare a 10 **minute** presentation. Details outlining the information to be included and the grading rubric of the project will be handed out on **Friday, August 28th** (after roster verification). A portion of the grade for the presentation will cover the PowerPoint itself (i.e. you will be graded on how organized your slides are and how well you present your information). Students will be expected to submit their presentations to the instructor on the day of their presentation, as well as submit a brief written summary of their topic, and a works cited page on the day of their presentation. Presentation dates will be announced by the instructor.

**Cell Phone Policy:**
All cell phones are expected to be put away and turned off during class. Any student observed having their phone out during class will be asked to put it away. Repeat offenders will be asked to leave class and may be subject to loss of points. Any cell phone or electronic device observed by the instructor to be in use during an exam will be assumed to be in use for academic dishonesty. This will result in the student receiving a grade of **ZERO** for that exam and could result in other punishment as outlined in the college catalog.

**Academic Dishonesty:**
The College-wide policy regarding dishonesty is described in the current online Abraham Baldwin College Catalog and student handbook. Academic dishonesty is defined, in this classroom, as any work that was not produced by the student who is receiving the grade for the submitted assignment (i.e. if your name is on the assignment and it is not your work that you are turning in then it is academic dishonesty or cheating) and includes, but is not limited to, use of notes or cheat sheets on exams, use of electronic devices on exams, copying another student’s work, or googling answers to quizzes. For purposes of this course, a **ZERO-TOLERANCE** policy regarding all forms of academic dishonesty will be strictly followed. If you are caught performing academic dishonesty then you will receive a **ZERO** for that assignment.

**Attention:**
If you are a student with a disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) and think that you might need special assistance or a special accommodation in this class or any other class, call the Student Development Office at 391-5135 or visit them
in the Carlton Center. If you have accommodations please inform the instructor within the first week of classes.

Conferences:
If at any time you have a problem with the material presented or with studying, please feel free to contact me for a meeting. I can be reached at class time or by email ccrabtree@abac.edu.