MURRAY STATE UNIVERSITY
COURSE SYLLABUS OUTLINE

SCHOOL OF AGRICULTURE

COURSE NUMBER: AGR 376  CREDIT HOURS: 3

I. TITLE:
Agricultural Chemicals

II. CATALOG DESCRIPTION:
This course deals with the major weeds and insects, which attack field crops and stored grain and the associated herbicides and insecticides. An understanding is developed of how and why herbicides function.

III. PURPOSE:
To provide students with the knowledge of herbicides and insecticides commonly used to control weeds and insects in field crops.

IV. COURSE OBJECTIVES:
To teach a basic understanding of agricultural chemicals and how to recognize and identify insects, weeds, and disease pests in crops.

V. CONTENT OUTLINE:
A. Introduction: Initial Definitions and Background
B. Importance of Weeds
C. Methods of Weed Control
D. Chemical Classification
E. Modes of Action
F. Weed Control for corn, soybeans, sorghum
G. Weed Control for small grains, pastures, forages, and non-crop
H. Weed Control for horticultural crops
I. Factors affecting herbicide persistence
J. Insecticides and alternatives/fungicides and fumigants
K. Toxicity and restricted use pesticides
L. Labels and labeling
M. Personal and environmental safety
N. IPM/weed and insect identification
O. IPM/disease identification
P. Chemical formulation/calibration
Q. Calibration/application/safety
R. Management decisions
VI. INSTRUCTIONAL ACTIVITIES:

Three lectures per week, 3 major exams and final. Practical applications of economic principles to agriculture will be stressed.
A. Assignments – oral and extemporaneous.
B. Classroom activity – lecture, discussion and various projects.
C. Other Information:
   1. Obtaining assignments and the pursuant work is the responsibility of each individual student.
   2. Conditions of this syllabus may be changed and announced at any regular scheduled class period.
   3. Every effort will be made to inform the student of course expectations. Trickery and subterfuge will be avoided. Students are encouraged to consult with the teacher on academic progress or any other matter affecting class performance. Extra group or individual study periods will be scheduled if requested by the student(s).
   4. Final exam as scheduled in bulletin of classes.

VII. FIELD AND CLINICAL EXPERIENCES:

A. Laboratory assignments.
B. Independent use of various software and computers.

VIII. RESOURCES:

A. Lab
B. Computer

IX. GRADING PROCEDURES:

Tests and Scoring
Quizzes 15 %
Announced Exams (comp.) 60 %
Final Exam 25 %
Total 100 %

Letter grades are derived from the weighted average of the points as explained above.

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100</td>
<td>A</td>
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<tr>
<td>80-89</td>
<td>B</td>
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<tr>
<td>70-79</td>
<td>C</td>
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<tr>
<td>60-69</td>
<td>D</td>
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<tr>
<td>Below 60</td>
<td>E</td>
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Extra work to raise grade at end of semester is not allowed. Students are advised to keep up as class progresses.
All makeup exams must be taken during the last regularly scheduled class period. There is no makeup for the final.

X. ATTENDANCE POLICY:

Please refer to the most current copy of the Murray State University’s Undergraduate Bulletin and Graduate Bulletin.

XI. ACADEMIC HONESTY POLICY:

(Adopted by the MSU Board of Regents)
Cheating, plagiarism (submitting another person’s material as one’s own), or doing work for another person which will receive academic credit are all impermissible. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments, reports, term papers, or the presentation on unacknowledged material as if it were the student’s own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

NOTE: The School of Agriculture Faculty have adopted and implemented an Academic Honesty Policy in addition to the University Honesty Policy, which can be found in the current Undergraduate Bulletin and Graduate Bulletin. The policy sets guidelines regarding acts of dishonesty and the procedure to follow should an event occur. It is each Agriculture student’s responsibility to obtain and read a copy of this document. The School’s Academic Honesty Policy can be obtained by asking for a copy from any Agriculture Faculty member or the Secretary.

XII. TEXT AND REFERENCES:

No text required.

XIII. PREREQUISITES:

None.

XIV. STATEMENT OF AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY:

Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or the provision of services and provides, upon request, reasonable accommodation including
auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities. For more information, contact Sabrina Y. Dial, Director of Equal Opportunity, Murray State University, 103 Wells Hall, Murray, KY 42071-3318. Telephone: 270-809-3155 (voice), 270-809-3361 (TDD).

XV. **MSU SCHOOL OF AGRICULTURE CELL PHONE POLICY**

The School of Agriculture recognizes that in today’s world cell phones are a familiar and often necessary form of communication for students.

It shall be the policy of the School that no cell phone usage shall be allowed in class and/or labs without the prior consent of the course instructor. This shall include verbal calling, incoming calls, email, text messaging, and use of cell phone calculators on tests and quizzes.

Cell phones must be kept off and out of sight (i.e. secured to a person’s belt or kept in a bag or purse away from desks and lab counters).

Should a student’s cell phone be visible, ring, or other form of unauthorized usage that is interruptive to the class or lab, the student may be asked to leave class and not return for that class/lab period.

Upon prior consent of the instructor, a student may obtain permission to have their phone on in case of an emergency or in critical family situations.

This policy also includes pagers and other electronic equipment such as blackberries and/or computers/laptops.