Course: AECL 3030 - Ecology of Plant Protection

Text: Syllabus, lecture handouts and classroom notes

Instructors: Gary Franc and David Legg

Time & Place: Lecture will be MWF 10:00-10:50 AM in Ag-C 4041. Attendance is required because quizzes are not announced and handouts are usually at the start of each class period. It is extremely difficult to “catch up.”

Examination: There are four (4) lecture exams, with the 4th exam given during finals week on Friday Dec 10 (10:15 AM-12:15 PM). Exams are each worth 100 points for a total of 400 points. Exams mostly cover new material presented after the prior exam. In addition, six (6) “surprise” quizzes (20 points each, drop the lowest) are given during class during the semester. We highly advised you to review your notes from the previous lecture before the start of each class period!

Grading: A = 91-100
B = 81-90
C = 71-80
D = 60-70
F = below 60

Note: 90.5 = 91, 90.49 = 90, etc.

Final grades are determined by dividing the total points earned by the total points possible (500), and multiplying by 100 (percent). This calculation also enables computing your current grade during the semester.

Cheating: Please read the University Regulations. Cheating and/or plagiarism is not tolerated. Violators will be expelled from the class with an F and violations will be reported to advisors and the College Dean.

Attendance: Lecture starts at 10:00 AM sharp. Being late or skipping class will hurt your grade, especially if it happens on a day when a quiz is given! Makeup exams or quizzes will be given only with an University-approved absence or under special hardships that require our prior approval.

Instructors: Offices Office Hours: Phone:
Franc (francg@uwyo.edu) 4033 Ag C M & W, 9-10 AM 766-2397
Legg (dlegg@uwyo.edu) 64 Ag A M 4-5 PM; W 2-3 PM; Th 11AM-12
FAX 766-5549
766-3369

It is most efficient to contact G. Franc by email if you have questions.
### Date | Topic | Instructor(s)
--- | --- | ---
**Aug 23** | Introduction: weeds, insects and plant diseases | Franc/Legg/Kniss
**CO-DEVELOPMENT/EVOLUTION**
25 | Organisms and the environment | Franc
27 | Principles of host pest interactions | Franc
30 | Principles of host pest interactions | Franc
**Sep 01** | Plant/disease/insect interactions | Legg
03 | Genetic plasticity of agroecosystems | Legg
06 | Labor Day - No Class | 
**ECOLOGY/SPREAD/EPIDEMIODE| OLOGY**
08 | Population dynamics - disease | Franc
10 | Plant disease - ecology | Franc
13 | Population dynamics - insects | Legg
15 | Insect pest ecology | Legg
17 | Population dynamics - weeds | Kniss
20 | Weed ecology | Kniss
22 | Exam #1 | 
**POPULATION ASSESSMENT/ECONOMIC DECISIONS**
24 | Estimated crop losses - all pests | Legg
27 | Sampling and surveillance | Legg
29 | Economic decision levels - insects | Legg
**Oct 01** | Economic decision levels - weeds | Legg
04 | Economic decision levels - diseases | Franc
06 | Decision making utilizing economic decision levels | Legg
**PEST MANAGEMENT THEORY AND PRACTICE**
08 | Principles of pest management | Franc
11 | Principles of pest management | Franc
13 | Tillage effects on pests | Franc
15 | Conservation tillage systems | Franc
18 | Exam #2 | Franc
20 | Host plant resistance | Franc
22 | Host plant resistance | Franc
25 | Major types of pesticides | Franc
27 | Pesticide application techniques | Kniss
29 | Biological control - weeds | Collier
**Nov 01** | Biological control - insects | Legg
03 | Biological control - diseases | Franc
05 | Biotechnology as a pest management tool | Franc
08 | Ecological management of pests | Franc
10 | Alternative control strategies “dirty tricks” for insects | Legg
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<tr>
<td>12</td>
<td>Exam #3</td>
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<td><strong>Agroecosystem Integration/Pest Management Issues</strong></td>
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<td>15</td>
<td>Pesticides and the Food Quality Protection Act</td>
<td>Franc</td>
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<td>17</td>
<td>Fate of pesticides in the environment</td>
<td>Franc/Video</td>
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<td>19</td>
<td>Resistance to pesticides</td>
<td>Franc</td>
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<td>22</td>
<td>IPM Strategies</td>
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<td>24-26</td>
<td><strong>Thanksgiving Break - No Class</strong></td>
<td>Eat turkey</td>
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<td>29</td>
<td>IPM Strategies</td>
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<td><strong>Dec 01</strong></td>
<td>Management of fertility and pests in an operating commercial</td>
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<td>vegetable farming operation</td>
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<td>03</td>
<td>Future trends in pest management</td>
<td>Franc</td>
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<td>06-10</td>
<td><strong>Finals Week</strong></td>
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<td><strong>Dec 10</strong></td>
<td><strong>Final Exam 10:15AM-12:15PM</strong></td>
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