NOTE to prospective students: This syllabus is intended to provide students who are considering taking this course an idea of what they will be learning. A more detailed syllabus will be available on the course Canvas site for enrolled students and may be more current than this sample syllabus.

Course Name: Seed Production  
Course Number: CROP 460/560  
Term Offered: Fall 2016  
Credits: 3  
Instructor name: Alyssa S. DuVal  
Instructor email: duvala@oregonstate.edu  
Instructor phone: 541-737-1131

Course Description
Prerequisites: CROP 200 or equivalent, or permission of the instructor

Course Overview
This course is designed for undergraduate and graduate students interested in learning about essential seed production practices including crop management operations, methods of maintaining seed-based genetics, and an introduction to seed industry economics. Topics addressed provide students with a solid foundation necessary to synthesize and communicate how agronomic factors and environmental conditions influence seed quality and yield, especially seed crops produced in the Pacific Northwest.

Communication
Please post all course-related questions in the General Discussion Forum so that the whole class may benefit from our conversation. Please email your instructor for matters of a personal nature. I will reply to course-related questions and email within 24-48 hours. I am occasionally out of the office, so contacting me via email and/or Canvas posts will ensure I receive your messages and can answer questions in a timely manner. I will strive to return your assignments and grades for course activities to you as soon as possible.

Course Credits
This course combines approximately 90 hours of instruction, online activities, discussion, assignments, and online assessment for three credits.
Technical Assistance
If you experience computer difficulties, need help downloading a browser or plug-in, assistance logging into the course, or if you experience any errors or problems while in your online course, contact the OSU Help Desk for assistance. You can call (541) 737-3474, email osuhelpdesk@oregonstate.edu or visit the OSU Computer Helpdesk online.

Learning Resources
There is not a required textbook for this course; however, there are weekly required reading assignments that will be made available through the Canvas course site. Dr. Thomas G. Chastain, Associate Professor of seed crop physiology and ecology at Oregon State University, has developed the course lecture and reading materials. Click this link to view Professor Chastain’s profile: Chastain - profile.

**Note to prospective students:** Please check with the OSU Bookstore for up-to-date information for the term you enroll (OSU Bookstore Website or 800-595-0357). If you purchase course materials from other sources, be very careful to obtain the correct ISBN.

Canvas
This course will be delivered via Canvas where you will interact with your classmates and with your instructor. Within the course Canvas site, you will access the learning materials, such as the syllabus, class discussions, assignments, projects, and quizzes. To preview how an online course works, visit the Ecampus Course Demo. For technical assistance, please visit Technical Help.

Measurable Student Learning Outcomes
Students are expected to:
1. Demonstrate a fundamental knowledge of the role of seed production as a key component of the genetic delivery system.
2. Explain and discuss how seed crop biology, environment, and management practices influence seed yield and seed quality.
3. Demonstrate knowledge of the structure and function of the modern seed production industry, and define the economic factors that affect the viability of the seed production industry.
4. Describe the principles and practices required for production of high quality seed crops.

Slash Course
In addition to the above listed student learning outcomes, students enrolled in this course for graduate credit (CROP 560) are also expected to:
1. Demonstrate proficiency in utilizing scientific literature through generating a literature review of a given topic.
2. Demonstrate professional oratory (presentation) skills and ability to provide constructive criticism in peer- and self-evaluations.
Evaluation of Student Performance
Examinations and Grade Distribution:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm Exam</td>
<td>100</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100</td>
</tr>
<tr>
<td>Quizzes (10)</td>
<td>250</td>
</tr>
<tr>
<td>Discussion Board</td>
<td>120</td>
</tr>
<tr>
<td>Assignments (6)</td>
<td>200</td>
</tr>
<tr>
<td>Group Project</td>
<td>180</td>
</tr>
<tr>
<td><strong>CROP 460 - Total</strong></td>
<td><strong>950</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature Review</td>
<td>50</td>
</tr>
<tr>
<td>Presentation</td>
<td>100</td>
</tr>
<tr>
<td><strong>CROP 560 - Total</strong></td>
<td><strong>1,100</strong></td>
</tr>
</tbody>
</table>

Grading Scale
Grades will be assigned as follows:

A = ≥ 93%
B = 83% - 86%
C = 73% - 76%
D = 63% - 66%
A- = 90% - 92%
B- = 80% - 82%
C- = 70% - 72%
D- = 60% - 62%
B+ = 87% - 89%
C+ = 77% - 79%
D+ = 67% - 69%
F = ≤ 59%

Course Content
Tentative Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Reading Assignments</th>
<th>Learning Activities</th>
<th>Due Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>• Introduction</td>
<td>Chapter 1</td>
<td>Online discussion Assignment #1</td>
<td>Sunday 10/2</td>
</tr>
<tr>
<td></td>
<td>• Cultivar Maintenance and Seed Certification</td>
<td></td>
<td>Assignment #1 Quiz #1</td>
<td>Sunday 10/2</td>
</tr>
<tr>
<td></td>
<td>• Seed Certification &amp; Seed Lab Tour</td>
<td></td>
<td>Grad Students: Literature Review</td>
<td>Tuesday 10/4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Friday 9/30</td>
</tr>
<tr>
<td>2</td>
<td>• Climate, Soils, and Seed Production</td>
<td>Chapter 2</td>
<td>Online discussion</td>
<td>Sunday 10/9</td>
</tr>
<tr>
<td></td>
<td>• Flowering and Pollination</td>
<td></td>
<td>In the News #1 Quiz #2</td>
<td>Sunday 10/9</td>
</tr>
<tr>
<td></td>
<td>• Seed Development and Components of Seed Yield</td>
<td></td>
<td></td>
<td>Tuesday 10/11</td>
</tr>
</tbody>
</table>

This course is offered through Oregon State University Extended Campus. For more information, contact:
Web: ecampus.oregonstate.edu   Email: ecampus@oregonstate.edu   Tel: 800-667-1465
<table>
<thead>
<tr>
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</tr>
</thead>
</table>
| 3    | • Seed Yield and Reproductive Efficiency  
• Seed Production Economics  
• Seed Treatment | Chapter 3 | Online discussion Assignment #2 Quiz #3 | Sunday 10/16  
Sunday 10/16  
Tuesday 10/18 |
| 4    | • Seed Conditioning  
• Seed Cleaner Tour  
• Midterm Review | | Online discussion Midterm Quiz #4 | Sunday 10/23  
Sunday 10/23  
Tuesday 10/25 |
| 5    | • Grass Seed Establishment  
• Grass Seed Nutrient Management  
• Grass Seed Pest Management | Chapters 4 & 5 | Online discussion In the News #2 Quiz #5 | Sunday 10/30  
Sunday 10/30  
Tuesday 11/1 |
| 6    | • Grass Seed Irrigation  
• Grass Seed Lodging Control  
• Grass Seed Harvest & Post Harvest  
• Grass Seed Tour | Chapter 6 | Online discussion Quiz #6 | Sunday 11/6  
Tuesday 11/8 |
| 7    | • Forage Legume Establishment  
• Forage Legume Irrigation | Chapter 7 | Online discussion Quiz 3 | Sunday 11/13  
Tuesday 11/15 |
| 8    | • Forage Legume Pests & Harvest  
• Forage Legume Tour  
• Vegetable Seed #1 | Chapter 8 | Online discussion In the News #3 Group Project Essay Quiz #8 Grad Student: Presentation | Friday 11/18  
Sunday 11/20  
Sunday 11/20  
Tuesday 11/22 |
| 9    | • Vegetable Seed #2  
• Sugarbeet Seed  
• Cereal & Oil Seed | Chapters 9 & 10 | Online discussion Group Project Presentation Quiz 4 | Sunday 11/27  
Friday 11/25  
Tuesday 11/29 |
| 10   | • Flower and Native Plant Seeds  
• Flower Tour | Chapter 11 | Online discussion Assignment #3 Quiz #10 | Sunday 12/4  
Sunday 12/4  
Sunday 12/4 |
| Finals | | | | Thursday 12/8 |
Course Policies
Discussion Participation
Students are expected to participate in all graded discussions. While there is great flexibility in online courses, this is not a self-paced course. You will need to participate in our weekly discussions at least twice each week, with deadlines for posting clearly indicated in the weekly Canvas instructions. Discussion participation will be assessed based on the following: 1) adhering to discussion thread requirements and deadlines, 2) quality (please put thought and effort into your posts), and 3) actively engaging with classmates.

Quizzes and Exams
This course does not require that you take exams under the supervision of an approved proctor; however, it is expected that you will adhere to the University Academic Integrity policies discussed below. There are 10 quizzes throughout the term, each addressing the lecture and reading materials for a given week. Additionally, there is one midterm exam as well as the final examination, both of which are timed. You will have 90 minutes to complete the midterm and 120 minutes to complete the final exam.

Makeup Exams
Makeup exams will be given only for missed exams excused in advance by the instructor. Excused absences will not be given for airline reservations, routine illness (colds, flu, stomach aches), or other common ailments. Excused absences generally will not be given after the absence has occurred, except under very unusual circumstances.

Assignments
There are six graded assignments in this class with due dates clearly posted in the Canvas pages. Three of these assignments are “What’s In The News” short research reports regarding current findings in the seed industry.

Seed Plan Group Project
The Seed Plan is a group project intended to promote communication and cooperation skills. Students will work in small groups (randomly assigned) to complete a seed plan written report as well as a 15-minute oral presentation. Group work and presentations will be facilitated through the YouSeeU web conferencing tool. Detailed information on the Seed Plan project as well as a list of group tasks and deadlines can be found in the Seed Plan Project module located in the course Canvas site.

Incompletes
Incomplete (I) grades will be granted only in emergency cases (usually only for a death in the family, major illness or injury, or birth of your child), and if the student has turned in 80% of the points possible. If you are having any difficulty that might prevent you from completing the coursework, please don’t wait until the end of the term; let me know right away.

Guidelines for a Productive and Effective Online Classroom
Students are expected to conduct themselves in the course (e.g., on discussion boards, email) in compliance with the university’s regulations regarding civility. Civility is an essential ingredient for academic discourse. All communications for this course should be conducted constructively.

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civily, and respectfully. Differences in beliefs, opinions, and approaches are to be expected. In all you say and do for this course, be professional. Please bring any communications you believe to be in violation of this class policy to the attention of your instructor.

Active interaction with peers and your instructor is essential to success in this online course, paying particular attention to the following:

- The discussion board is your space to interact with your colleagues related to current topics or responses to your colleague’s statements. It is expected that each student will participate in a mature and respectful fashion.
- Unless indicated otherwise, please complete the readings and view other instructional materials for each week before participating in the discussion board.
- Read your posts and comments carefully before submitting them.
- Pay close attention to what your colleagues write in their online comments. Ask clarifying questions, when appropriate. These questions are meant to probe and shed new light, not to minimize or devalue comments.
- Disagree with ideas, but do not make personal attacks. Do not demean or embarrass others. Do not make inappropriate comments at all.
- Be respectful of others and their opinions, valuing diversity in backgrounds, abilities, and experiences.
- Challenging the ideas held by others is an integral aspect of critical thinking and the academic process. Please word your responses carefully, and recognize that others are expected to challenge your ideas. A positive atmosphere of healthy debate is encouraged.

Statement Regarding Students with Disabilities
Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval please contact DAS immediately at 541-737-4098 or at http://ds.oregonstate.edu. DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations.

Accessibility of Course Materials
All materials used in this course are accessible. If you require accommodations please contact Disability Access Services (DAS). Additionally, Canvas, the learning management system through which this course is offered, provides a vendor statement certifying how the platform is accessible to students with disabilities.

Expectations for Student Conduct
Student conduct is governed by the university’s policies, as explained in the Student Conduct Code.

Academic Integrity
Students are expected to comply with all regulations pertaining to academic honesty. For further information, visit Student Conduct and Community Standards, or contact the office of Student Conduct and Mediation at 541-737-3656.
OAR 576-015-0020 (2) Academic or Scholarly Dishonesty:

a) Academic or Scholarly Dishonesty is defined as an act of deception in which a Student seeks to claim credit for the work or effort of another person, or uses unauthorized materials or fabricated information in any academic work or research, either through the Student's own efforts or the efforts of another.

b) It includes:

i) CHEATING - use or attempted use of unauthorized materials, information or study aids, or an act of deceit by which a Student attempts to misrepresent mastery of academic effort or information. This includes but is not limited to unauthorized copying or collaboration on a test or assignment, using prohibited materials and texts, any misuse of an electronic device, or using any deceptive means to gain academic credit.

ii) FABRICATION - falsification or invention of any information including but not limited to falsifying research, inventing or exaggerating data, or listing incorrect or fictitious references.

iii) ASSISTING - helping another commit an act of academic dishonesty. This includes but is not limited to paying or bribing someone to acquire a test or assignment, changing someone's grades or academic records, taking a test/doing an assignment for someone else by any means, including misuse of an electronic device. It is a violation of Oregon state law to create and offer to sell part or all of an educational assignment to another person (ORS 165.114).

iv) TAMPERING - altering or interfering with evaluation instruments or documents.

v) PLAGIARISM - representing the words or ideas of another person or presenting someone else's words, ideas, artistry or data as one's own, or using one's own previously submitted work. Plagiarism includes but is not limited to copying another person's work (including unpublished material) without appropriate referencing, presenting someone else's opinions and theories as one's own, or working jointly on a project and then submitting it as one's own.

c) Academic Dishonesty cases are handled initially by the academic units, following the process outlined in the University's Academic Dishonesty Report Form, and will also be referred to SCCS for action under these rules.

Conduct in this Online Classroom

Students are expected to conduct themselves in the course (e.g., on discussion boards, email postings) in compliance with the university's regulations regarding civility.

Turnitin Plagiarism Prevention

Your instructor may ask you to submit one or more of your writings to Turnitin, a plagiarism prevention service. Your assignment content will be checked for potential plagiarism against Internet sources, academic journal articles, and the papers of other OSU students, for common or borrowed content. Turnitin generates a report that highlights any potentially unoriginal text in your paper. The report may be submitted directly to your instructor or your instructor may elect to have you submit initial drafts through Turnitin and you will receive the report allowing you the opportunity to make adjustments and ensure that all source material has been properly cited. Papers you submit through Turnitin for this or any class will be added to the OSU Turnitin database and may be checked against other OSU paper submissions. You will retain all rights to your written work. For further information, visit Academic Integrity for Students: Turnitin – What is it?
Tutoring

NetTutor is a leading provider of online tutoring and learner support services fully staffed by experienced, trained and monitored tutors. Students connect to live tutors from any computer that has Internet access. NetTutor provides a virtual whiteboard that allows tutors and students to work on problems in a real time environment. They also have an online writing lab where tutors critique and return essays within 24 to 48 hours. Access NetTutor from within your Canvas class by clicking on the NetTutor button in your course menu.

OSU Student Evaluation of Teaching

Course evaluation results are extremely important and are used to help me improve this course and the learning experience of future students. Results from the 19 multiple choice questions are tabulated anonymously and go directly to instructors and department heads. Student comments on the open-ended questions are compiled and confidentially forwarded to each instructor, per OSU procedures. The online Student Evaluation of Teaching form will be available toward the end of each term, and you will be sent instructions via ONID by the Office of Academic Programs, Assessment, and Accreditation. You will log in to “Student Online Services” to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted.