



INSTRUCTOR		F572: Advanced Silviculture Practices	
<b>Name</b>	Wilfred Previant, PhD	<b>Term</b>	Spring 2023
<b>Office</b>	Forestry 114B	<b>Class Meeting Days</b>	Online
<b>Office Hours</b>	By appointment	<b>Class Meeting Hours</b>	Online
<b>Email</b>	Wilfred.Previant@colostate.edu	<b>Class Location</b>	Online
<b>Phone</b>	970.491.5342	<b>Course Credits</b>	3.0 (no lab)
<b>Communication Policy:</b> All communications sent via email or phone will receive a response within 36 hours of arrival. Email is the best form of communication.			

### Welcome!

This class will embrace an exciting and fascinating aspect of advanced silviculture practices. Our goal is to bring passion, insight, expertise, and humor to each class to help refine students' and practitioners' critical thinking. The ultimate goal is to have a class of accomplished students and professionals with a holistic background that are competitive and successful in the continued stewardship of natural resources. We look forward to your participation and enthusiasm!

### Course Overview

Advanced Silviculture Practices is a component of Online Graduate Certificate in [Advanced Silviculture for the Practicing Forester](#). In this course, we will explore the application of forest ecology principles and silvicultural techniques to meet a wide range of desired conditions and resource objectives. This course will help foster your critical thinking and integration of what you have learned so far in the Certificate through the development of a silvicultural prescription for a specific site that will include desired future conditions, management goals, and objectives.

### Course Goals and Objectives

Students will be assessed and evaluated by demonstrating their proficiency via participation, professionalism, quizzes, exams, assigned readings, group work, assignments, and interacting with fellow students.

Upon the completion of this course, students will be able to:

- Articulate and describe how silvicultural practices arise from regional challenges and conditions.
- Clearly and accurately explain orally and in writing how key ecological concepts are related to forest stand development and the response of forest vegetation to silviculture practices.
- Accurately define and apply silvicultural terminology (regeneration techniques, intermediate stand treatments, silvicultural systems, etc.) and be able to justify and defend management techniques with peers and colleagues.
- Demonstrate the ability to develop and apply silvicultural prescriptions appropriate to management objectives, including methods of establishing and influencing the composition, growth, and quality of forests, and understand the impacts of those prescriptions.

- Anticipate how different silvicultural practices will affect soil resources, forest health, wildlife habitat, biological diversity, wood production, water quality and yield, recreation, and aesthetics.
- Analyze economic, environmental, and social consequences of forest resource management and incorporate these considerations into the development of management strategies and decisions.

### **Course Prerequisites**

Admission to the Online [Graduate Certificate in Advanced Silviculture for the Practicing Forester](#).

### **Covid Information**

The university's COVID information is at <https://covid.colostate.edu/>.

### **CSU's Land Acknowledgment Statement**

*Colorado State University acknowledges, with respect, that the land we are on today is the traditional and ancestral homelands of the Arapaho, Cheyenne, and Ute Nations and peoples. This was also a site of trade, gathering, and healing for numerous other Native tribes. We recognize the Indigenous peoples as original stewards of this land and all the relatives within it. As these words of acknowledgment are spoken and heard, the ties Nations have to their traditional homelands are renewed and reaffirmed.*

*CSU is founded as a land-grant institution, and we accept that our mission must encompass access to education and inclusion. And, significantly, that our founding came at a dire cost to Native Nations and peoples whose land this University was built upon. This acknowledgment is the education and inclusion we must practice in recognizing our institutional history, responsibility, and commitment.*

<https://landacknowledgment.colostate.edu>

### **This is an Inclusive Classroom**

It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength, and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups. In addition, if any of our class meetings conflict with your religious events, please let me know so that we can make arrangements for you.

Source: <https://education.uiowa.edu/office-dean/policies/syllabus-checklist>

### **CSU's Principles of Community**

- **Inclusion:** We create and nurture inclusive environments and welcome, value and affirm all members of our community, including their various identities, skills, ideas, talents, and contributions.
- **Integrity:** We are accountable for our actions and will act ethically and honestly in all our interactions.
- **Respect:** We honor the inherent dignity of all people within an environment where we are committed to freedom of expression, critical discourse, and the advancement of knowledge.

- **Service:** We are responsible, individually, and collectively, to give of our time, talents, and resources to promote the well-being of each other and the development of our local, regional, and global communities.
- **Social Justice:** We have the right to be treated and the responsibility to treat others with fairness and equity, the duty to challenge prejudice, and to uphold the laws, policies and procedures that promote justice in all respects.

<https://diversity.colostate.edu/resources/principles-of-community/>

### **Required Texts and Supplementary Materials**

You are required to purchase the [Ralph D. Nyland. 2016. \*Silviculture: Concepts and Applications, Third Edition\*. Waveland Press, Inc.: Long Grove, IL.](#) for this course. We will also have required readings that will typically be posted on Canvas or through the university eReserve system. There will be exceptions where students are expected to find the resources online. Further, there are a number of videos which will either be posted to Canvas or are linked in the descriptions.

### **Supplementary (option) texts and materials**

There are substantial supplementary texts and videos available in each module. These are intended to help reinforce ideas and provide additional context to the core ideas presented. As the name suggests these are supplemental in that they are not required reading but will certainly be worth the time investment.

### **Library & Research Help**

The CSU Libraries Help Desk provides both research (ph. 970-491-1841) and technical (ph. 970-491-7276) support. You can also email a librarian a research question ([https://libanswers.colostate.edu/form?queue\\_id=332](https://libanswers.colostate.edu/form?queue_id=332)) or chat with the Libraries (<https://lib.colostate.edu/services/ask-us/>) for quick help. Explore an online research guide at <https://libguides.colostate.edu/agnatresourcesguides>.

### **Important Dates to Remember**

Last Day to Add/Drop Classes Without an Instructor Override: Sun, January 22, 2023

Registration Closes: Wed, February 1, 2023

Withdrawal and Repeat/Repair Deadline: Fri, April 14, 2023

Fall 2023 Registration begins: Mon, April 3, 2022 (check RamWeb for specific access date and time)

Spring Recess: Sat, March 11 – Sun, March 19, 2023

Last Day to Process a University Withdrawal: Fri, May 5, 2023

Final Examinations: Mon-Fri, May 8-12, 2023

### **Useful websites with important dates to remember**

<https://registrar.colostate.edu/registration-dates/> (on campus)

<https://www.online.colostate.edu/faqs/important-dates.dot#fall> (CSU Online)

**Course Schedule:** See Canvas for further detail. Instructor reserves the right to change content and due dates to best serve the students, class progress, and course objectives.

<b>MODULE</b>	<b>CONTENT</b>
1	Introduction and Review of Silviculture
2	Stand Dynamics and Site Quality
3	Stand Density
4	Intermediate Treatments
5	Regeneration Principles
6	Site Preparation
7	Even-aged Regeneration
8	Uneven-aged Regeneration
<i>BREAK</i>	<i>BREAK</i>
9	Starting the Prescription Process
10	Adaptive Silviculture for Climate Change
11	Habitat for Wildlife
12	Silviculture Draft and Peer Reviews
13	Wood Utilization
14	Final Prescription Presentation - Video
15	Final Prescription (Written) and Peer-Reviews
16	Final Exam

### **Discussion, Quizzes, and Assignments**

Discussions are a way for you to make connections within the course content and within your peers on topics that are relevant to the course and your daily professional practice. Each discussion has specific criteria for what to submit and whether posting on a peer’s submission is required. However, feel free to comment regardless of posting requirements. The rubric for grading discussions is consistent across all of them.

Quizzes can be viewed as knowledge checks and are a way for you to gauge your understanding of the topics. Each quiz has a time limit and different point values. Please make sure to read the quiz overview page before beginning to inform yourself of each quiz’s requirements.

Assignments will be varied and typically due at the end of respective Module. These assignments can be writing a short essay (~500 words), answering a few questions, completing an online activity, submitting a video, or finalizing various steps of the prescription process. Time commitments may be a few minutes to several hours. They have been designed to keep students engaged with the weekly content, monitor individual’s progress, and incorporate different technologies and methods to enhance communication skills.

Prescription process exercises range from complete/incomplete up to graded works that have associated rubrics. They have been designed to help you practice the skills and tasks you will have to do in completing the final silviculture prescription and presentation.

The *final prescription project* has the drafting of a regional prescription, a peer review process for feedback, an oral presentation and a final submission. We begin this process in Module 9 and complete subsequent steps due between weeks 11-16.

**NOTE:** All the dates related to content, assignments, quizzes, and guest speakers are tentative, and can be changed at the discretion of the professor. The instructor will communicate via Canvas of changes.

**Basis for Final Grade**

Assessment	Percent of Final Grade
Quizzes	15%
Assignments, Activities, Exercises	15%
Discussion, Participation, and Professionalism	10%
Regional Silviculture Prescription	20%
Regional Silviculture Presentation	15%
Final Exam	25%
	100%

**Basic Letter Grade (90/80/70/60) Scheme**

GRADE	A	B	C	D	F
RANGE	90 – 100%	80 – 89%	70 – 79%	60 – 69%	< 60%

**Canvas Information and Technical Support**

Canvas is an online learning management system where course content, grades, and communication including due dates will reside for this course.

- Login: [canvas.colostate.edu](https://canvas.colostate.edu)
- Support: <https://canvas.colostate.edu/support/>
- For passwords or any other computer-related technical support, contact the Central IT Technical Support Help Desk: <https://www.acns.colostate.edu/technical-support-services/>
- Voice: (970) 491-7276 | Email: [help@colostate.edu](mailto:help@colostate.edu)

The Support pages identify the browsers, operating systems, and plugins that work best with Canvas. If you are new to Canvas quickly review the Canvas Student Orientation materials.

**Course Policies**

As a student enrolled in this course, one of your responsibilities is to submit course work by the due dates listed in Canvas. With that said, I take my role as your instructor very seriously, and, in fact, I care about how well you do in this course and that you have a satisfying, rewarding experience.

To that end, it is my commitment to you to respond individually to the work you submit in this class and to return your work in a timely manner. Smaller, weekly assignments and quizzes will be returned within 7 days and major assignments, exams, and essays will be returned within 14 days. (If, however, due to unforeseeable circumstances, the grading of your work takes longer than the times I have listed here, I will keep you informed of my progress and make every effort to return your work with feedback as soon as I can.)

### **Late Work Policy**

There are no make-ups for in-class writing, quizzes, the midterm, or the final exam. Assignments turned in late will be assessed a penalty: 25% deduction for being one day late; 50% deduction for being 2-4 days late; no acceptance if overdue by more than five days.

If a student has an emergency that prevents submission of work, the expectation is that the student will contact the instructor as soon as possible to re-schedule a new submission date. If a student has a non-University conflict with a submission date, the expectation is that the student will contact the instructor **prior** to the deadline. The instructor will determine if a new deadline is warranted. Please review this course's Attendance Policy (below) for more information and guidance.

### **Extra Credit Policy**

No extra credit is available for this course.

### **Grades of "Incomplete"**

Per university policy, an instructor may assign temporary grade of Incomplete to a student who demonstrates that he or she could not complete the requirements of the course due to circumstances beyond the student's control and not reasonably foreseeable. A student must be passing a course at the time that an Incomplete is requested unless the instructor determines that there are extenuating circumstances to assign an Incomplete to a student who is not passing the course. When an instructor assigns an Incomplete, he or she shall specify in writing using the Department Incomplete Grade Form the requirements the student shall fulfill to complete the course as well as the reasons for granting an Incomplete when the student is not passing the course. The instructor shall retain a copy of this statement in his or her grade records and provide copies to the student and the department head or his or her designee. (Section I.6 of the *Academic Faculty and Administrative Professional Manual*). For more information: <https://registrar.colostate.edu/incomplete-grades/>

### **Disability Access**

Colorado State University is committed to providing reasonable accommodations for all persons with disabilities. Students with disabilities who need accommodations must first contact the Student Disability Center before requesting accommodations from the professor. The Student Disability Center (SDC; <https://disabilitycenter.colostate.edu/>) is located in room 121 of The Institute for Learning and Teaching (TILT) building. Their phone is (970) 491-6385 (V/TDD). Students who need accommodations in this course must contact the professor at the beginning of the semester to discuss needed accommodations.

### **Attendance Policy**

Students who will miss class due to participation in University-sanctioned extracurricular/co-curricular activities must inform their instructors prior to the anticipated absence and take the initiative to make up missed work in a timely fashion. Instructors must make reasonable efforts to enable students to make up work which must be accomplished under the instructor's supervision (e.g., examinations, laboratories). In the event of a conflict in regard to this policy, individuals may appeal using established University procedures.

For the purposes of this regulation, University-sanctioned activities include competitions, events and professional meetings in which students are officially representing the institution. Appropriate sanctioned activities include:

- a. Intercollegiate athletics;

- b. Collegiate club sports and competitions;
- c. Conferences and workshops recognized by the University not related to academics;
- d. Commitments on behalf of the University (ASCSU, band, etc.); and
- e. Professional activities recognized by the University related to academics.
- f. Department heads or their designated representatives must approve sanctioned professional and departmental activities. Other sanctioned activities must be approved by the appropriate program director on record with the Division of Student Affairs offices or the Department of Athletics.

Each semester and course present a variety of academic, professional, and personal challenges that may impact attendance. Students may miss class due to a variety of expected, unexpected, or emergency situations. If this happens, the student should email the instructor prior to the absence (if feasible) and indicate their respective status with a simple explanation. See Professionalism Policy for needed email content.

### **Participation and Professionalism Policy**

As a graduate level certificate course, you can expect to spend around six hours per week working on course content and assessments. As this is an online course, it is essentially to participate regularly and often in the assignments for each module. Some discussions require only a posting, others require responding to peers. Please review the instructions carefully to ensure you complete the assignment. Please review the [core rules of netiquette](#).

When emailing the instructor, please include your full name, CSU ID, and the course number in your email.

### **Religious Accommodation**

Participation in official University activities, e.g., an out-of-town athletic event, or special religious observances may provide a legitimate reason for an excused absence. The student is responsible for discussing this with the instructor at the beginning of the semester.

### **Final Exam Policy**

Final examination week is part of the regular semester. Student attendance shall be consistent with University policy. If a student has three or more final examinations (not classes) scheduled for the same day or if conflicts of examination times occur, the student may negotiate a time change with the instructors involved. If the parties involved cannot find a mutually agreeable time, the Registrar's Office indicates which courses must be changed. **Note:** The Registrar's Office must be notified at least one week prior to Final Examination Week to allow instructors time to make appropriate accommodations. It is the student's responsibility to initiate negotiations. <http://www.registrar.colostate.edu/final-exams>

### **Academic Integrity**

The Department of Forest and Rangeland Stewardship takes academic integrity seriously. At minimum, academic integrity means that no one will use another's work as their own. You can find an overview and CSU's definition of plagiarism on the CSU Writing Center website found here: <https://writing.colostate.edu/guides/page.cfm?pageid=311&guideid=17>.

If you plagiarize in your work you could lose credit for the plagiarized work, fail the assignment, or fail the course. Each instance of plagiarism, classroom cheating, and other types of academic dishonesty will

be addressed according to the principles published in the CSU General Catalog (under “Academic Integrity/Misconduct”: <http://catalog.colostate.edu/general-catalog/policies/students-responsibilities/>)

This course will adhere to the CSU Academic Integrity [Policies and Guiding Principles](#) as found in the General Catalog and the [Student Conduct Code](#).

Academic integrity lies at the core of our common goal: to create an intellectually honest and rigorous community. Because academic integrity, and the personal and social integrity of which academic integrity is an integral part, is so central to our mission as students, teachers, scholars, and citizens, I will ask that you affirm the CSU Honor Pledge as part of completing your work in this course.

Further information about Academic Integrity is available at CSU’s Practicing Academic Integrity: <https://tilt.colostate.edu/Integrity/StudentResources>

### **Third-party tools/privacy**

Please note that this course may require you to use third-party tools (tools outside of the Canvas learning management system), such as Skype and others. Some of these tools may collect and share information about their users. Because your privacy is important, you are encouraged to consult the privacy policies for any third-party tools in this course so that you are aware of how your personal information is collected, used and shared.

### **Copyrighted course materials**

Please do not share material from this course in online, print, or other media. Course material is the property of the instructor who developed the course. Materials authored by third parties and used in the course are also subject to copyright protections. Posting course materials on external sites (commercial or not) violates both copyright law and the CSU Student Conduct Code. Students who share course content without the instructor’s express permission, including online sites that post materials to sell to other students, could face appropriate disciplinary or legal action.

### **Universal design for learning/accommodation of needs**

I am committed to the principle of universal learning. This means that our classroom, our virtual spaces, our practices, and our interactions be as inclusive as possible. Mutual respect, civility, and the ability to listen and observe others carefully are crucial to universal learning.

If you are a student who will need accommodations in this class, please contact me to discuss your individual needs. Any accommodation must be discussed in a timely manner. A verifying memo from [The Student Disability Center](#) may be required before any accommodation is provided.

The Student Disability Center (SDC) has the authority to verify and confirm the eligibility of students with disabilities for the majority of accommodations. While some accommodations may be provided by other departments, a student is not automatically eligible for those accommodations unless their disability can be verified and the need for the accommodation confirmed, either through SDC or through acceptable means defined by the particular department. Faculty and staff may consult with the SDC staff whenever there is doubt as to the appropriateness of an accommodative request by a student with a disability.

The goal of SDC is to normalize disability as part of the culture of diversity at Colorado State University. The characteristic of having a disability simply provides the basis of the support that is available to

students. The goal is to ensure students with disabilities have the opportunity to be as successful as they have the capability to be.

Support and services are offered to student with functional limitations due to visual, hearing, learning, or mobility disabilities as well as to students who have specific physical or mental health conditions due to epilepsy, diabetes, asthma, AIDS, psychiatric diagnoses, etc. Students who are temporarily disabled are also eligible for support and assistance.

Any student who is enrolled at CSU, and who self-identifies with SDC as having a disability, is eligible for support from SDC. Specific accommodations are determined individually for each student and must be supported by appropriate documentation and/or evaluation of needs consistent with a particular type of disability. SDC reserves the right to ask for any appropriate documentation of disability in order to determine a student's eligibility for accommodations as well as in support for specific accommodative requests. The accommodative process begins once a student meets with an accommodation's specialist in the SDC.

### **Undocumented student support**

Any CSU student who faces challenges or hardships due to their legal status in the United States and believes that it may impact their academic performance in this course is encouraged to visit [Student Support Services for Undocumented, DACA & ASSET](#) for resources and support. Additionally, only if you feel comfortable, please notify your professor so they may pass along any additional resources they may possess.

### **Title IX Information**

CSU's Student Sexual Harassment and Violence policy, following national guidance from the Office of Civil Rights, requires that faculty follow CSU policy as a "mandatory reporter" of any personal disclosure of sexual harassment, abuse, and/or violence related experiences or incidents shared with the faculty member in person, via email, and/or in classroom papers or homework exercises. These disclosures include but are not limited to reports of personal relational abuse, relational/domestic violence, and stalking. While faculty are often able to help students locate appropriate channels of assistance on campus (e.g., see the CSU Health Network link below), disclosure by the student to the faculty member requires that the faculty member inform appropriate CSU channels to help ensure that the student's safety and welfare is being addressed, even if the student requests that the disclosure not be shared.

For counseling support and assistance, please see the CSU Health Network, which includes a variety of counseling services that can be accessed at: <http://www.health.colostate.edu/>. And, the Sexual Assault Victim Assistance Team is a confidential resource for students that does not have a reporting requirement and that can be of great help to students who have experienced sexual assault. Some helpful websites:

<https://safety.colostate.edu/sexual-assault-information/>

<https://wgac.colostate.edu/support/sexual-assault/>

### **Non-Discrimination Statement**

Colorado State University is committed to providing an environment that is free from discrimination and harassment based on race, age, creed, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, gender identity/expression, or pregnancy in its employment, programs, services and activities, and admissions, and, in certain circumstances, marriage to a co-worker. The University will not

discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. Colorado State University is an equal opportunity and equal access institution and affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services. Source: <http://oeo.colostate.edu/non-discrimination-statement>

### **Mental Health and Wellness**

CSU is a community that cares. You are not alone. CSU Health Network Counseling Services has trained professionals who can help. Your student fees provide access to a wide range of support services. Call Counseling Services at (970) 491-6053, and they will work together with you to find out which services are right for you. Visit <https://health.colostate.edu/about-counseling-services> to learn more and <https://health.colostate.edu/mhwb-resources/> for additional student mental health and well-being resources. If you are concerned about a friend or peer, use **Tell Someone** by calling (970) 491-1350 or visiting <https://supportandsafety.colostate.edu/tell-someone/> to share your concerns with a professional who can discreetly connect the distressed individual with the proper resources. Rams Take Care of Rams. Reach out and ask for help if you or someone you know is having a difficult time.

### **Student Case Management**

Student case management (<https://studentcasemanagement.colostate.edu/>) is available to help students with extenuating life circumstances and connect them with resources. In some cases, after you and I discuss your situation, I may request verifiable documentation for class absences (<https://studentcasemanagement.colostate.edu/class-absences/>) from the SCM office if you request considerations for absences or missed coursework.

**The following link/QRN code provides policies relevant to your courses and resources to help with various challenges you may encounter:**

<https://col.st/2FA2g>

