

FOR 329 Harvesting Systems
Spring 2021 Syllabus
2 credits

- Instructor:** Dr. Shuva H. Gautam
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- Class Time:** Lectures: Fridays 9:00 AM – 10:50 AM Virtual
- Final Exam:** TBD
- Office Hours:** Thursdays 9:00-11:00 AM through Zoom; see link in Canvas. Students are **encouraged** to seek assistance if/when needed. If your performance is not where you would like it to be, it is best to seek help early in the semester while there is plenty of time to improve your overall grade.
- Textbooks:**
- Conway, S. 1982. *Logging practices: Principles of timber harvesting systems*. Revised Edition. Miller Freeman Publications. California. 432 p.
 - LeDoux, C.B. 2011. *Harvesting systems for the northern forest hardwoods*. USDA For. Serv. Gen. Tech. Rep. NRS-91. 65 p.
 - Holaday, S. and Wagner C. 2010. Wisconsin's Forestry Best Management Practices for Water Quality. Wisconsin DNR. 162 p.

Course Description

This course provides an overview of North American timber harvesting systems. The course will cover topics such as the five functions of a harvesting system, harvest planning, logging safety, best management practices, harvesting productivity and cost estimation, and forest roads.

Course Objectives

This course is designed to familiarize students with harvesting systems operating in North America and equip them to administer timber sales. After completing this course, students should be able to 1) identify the components of harvesting systems; 2) develop harvest plans that consider environmental, logistical, and financial constraints; 3) identify and implement appropriate best management practices on harvest sites; 4) locate low standard forest roads and choose appropriate stream crossing structures; 5) communicate in a manner that is grammatically correct and consistent with professional expectations; and 6) critique written and oral communication to provide effective feedback to improve communication.

Grading

- Quizzes – 10%
- Midterm – 20%
- Assignments – 20%
- BMP exercises – 15%
- Magazine article summary presentations - 5%
- Presentation of paper critique 10%
- Final exam – 20%

Numerical Average	Letter Grade	Numerical Average	Letter Grade
92-100	A	78-79	C+
90-91	A-	72-77	C
88-89	B+	70-71	C-
82-87	B	68-69	D+
80-81	B-	60-67	D
<60		F	

A paper copy of each assignment should be turned in to the instructor at the appointed time. For the research paper, an electronic copy should be submitted to D2L and a paper copy handed in to the instructor. Written assignments will be inspected for plagiarism via turnitin.com. It is the student's responsibility to ensure that the assignment is received by the instructor on or before the due date. **Late submissions will receive a deduction of 5% for each day that the assignment is late for the first 7 days. Late assignments will not be accepted one week after the due date.**

Exams are due on the date they are given. If a student will not be present on the day of an exam because of a job interview, illness, etc., it is the responsibility of the student to communicate with the instructor far enough in advance to allow for an early exam. Alternative arrangements may be allowed at the sole discretion of the instructor.

Instructor's tips:

- (1.) Come to class willing to learn and have fun, I certainly plan to do so.
- (2.) Keep up with the readings and the assignments.

Instructor's rules:

- (1.) Discussion of homework assignments between students is encouraged, however all work (unless part of any group projects) must be done independently.
- (2.) Cheating and/or plagiarism will not be tolerated (see also the Professionalism Statement)
- (3.) Posting instructor-created course material onto course-sharing websites directly violates the instructor's copyright on his academic materials; permission to post instructor-created material on any such site is unequivocally denied.
- (4.) Smoking or other tobacco use is not permitted during class or any association labs/discussion section if applicable, including those when we are outdoors.
- (5.) If you plan to miss an exam, you have to let me know ahead of time and explain why you will be unable to take the exam at the scheduled time. Unexcused absences from exams will result in zeroes.
- (5.) Assignments are due at the start of class on the respective due dates.
- (6.) All written work is expected to be grammatically correct, neat, and well organized. Work that is sloppy, hard to read, does not follow prescribed format, and/or contains many spelling and/or grammatical errors will be graded with a 0.

Help Resources

Tutoring	Advising	Safety and General Support	Health
Tutoring and Learning Center helps with Study Skills, Writing, Technology, Math, & Science. 018 Albertson Hall, ext 3568	Academic and Career Advising Center, 320 Albertson Hall, ext 3226	Dean of Students Office, 212 Old Main, ext. 2611	Counseling Center, Delzell Hall, ext. 3553. Health Care, Delzell Hall, ext. 4646

Students with Disabilities:

UW-Stevens Point will modify academic program requirements as necessary to ensure that they do not discriminate against qualified applicants or students with disabilities. The modifications should not affect the substance of educational programs or compromise academic standards; nor should they intrude upon academic freedom. Examinations or other procedures used for evaluating students' academic achievements may be adapted. The results of such evaluation must demonstrate the student's achievement in the academic activity, rather than describe his/her disability.

If modifications are required due to a disability, please inform the instructor and contact the Disability and Assistive Technology Center to complete an Accommodations Request form. Phone: 346-3365 or Room 609 Albertson Hall.

UWSP Community Rights and Responsibilities

UWSP values a safe, honest, and respectful learning environment. To ensure that each student has the opportunity to succeed, the University has developed a set of expectations for all students and instructors called the *Rights and Responsibilities* document, which can be found at <http://www.uwsp.edu/stuaffairs/Pages/rightsandresponsibilities.aspx>.

Academic integrity is essential to the University mission and success in life. Academic dishonesty (cheating, plagiarism, etc.) will not be tolerated. Do not do it! Please note that submitting work that was previously submitted is not allowed without prior consent of the instructor. The minimum penalty for a violation of academic integrity is a failure (zero) for the assignment. See "Student Academic Standards and Disciplinary Procedures" section of the *Rights and Responsibilities* document (<http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap14.pdf>).

Class Attendance & Decorum

Class attendance is required. Absences resulting from illness, family emergency, or University sponsored activities may be excused provided a written explanation is provided to the instructor before the intended absence. In cases of emergency, a written explanation should be provided as soon as it is practical to do so. If absences occur on days when assignments are due, it is the student's responsibility to ensure that assignments are turned in prior to class/lab on the due date.

The use of cell phones and other electronic devices in class for non-academic purposes is distracting, disruptive, and leads to poor academic performance. Therefore, the use of these devices in the classroom/lab is prohibited except in cases of emergency. Students engaging in disrespectful or disruptive behavior may be asked to leave the classroom for the remainder of the class period and/or have their attendance/professionalism score reduced depending on the severity of the disruption.

University of Wisconsin Stevens Point College of Natural Resources-Principles of Professionalism

The College of Natural Resources at the University of Wisconsin – Stevens Point prepares students for success as professionals in many fields. As a professional, there are expectations of attainment of several personal characteristics. These include:

Integrity

Integrity refers to adherence to consistent moral and ethical principles. A person with integrity is honest and treats others fairly.

Collegiality

Collegiality is a cooperative relationship. By being collegial you are respecting our shared commitment to student education through cooperative interaction. This applies to all involved in the process: students, staff, faculty, administration and involved community members. You take collective responsibility for the work performed together, helping the group attain its goals.

Civility

Civility refers to politeness and courtesy in your interactions with others. Being civil requires that you consider the thoughts and conclusions of others and engage in thoughtful, constructive discussion to express your own thoughts and opinions.

Inclusivity

Inclusivity requires you to be aware that perspective and culture will control how communication is understood by others. While many values are shared, some are quite different. These differences in values should be both considered and respected.

Timeliness

Timeliness is the habit of performance of tasks and activities, planned in a way that allows you to meet deadlines. This increases workplace efficiency and demonstrates respect for others' time.

Respect for Property

Respect for property is the appreciation of the economic or personal value an item maintains. Maintaining this respect can both reduce costs (increase the operable life of supplies and equipment) as well as demonstrate respect for others rights.

Communication

Professional norms in communication require that you demonstrate the value of your colleagues, students, professors or others. The use of appropriate tone and vocabulary is expected across all forms of communication, whether that communication takes place face to face, in writing or electronically.

Commitment to Quality

Quality is the ability to meet or exceed expectations. By having a commitment to quality, we intend to provide a learning environment that is conducive to learning. Intrinsic to this commitment to quality is defining expectation (committed to in a syllabus through learning outcomes), implementation (with quality control in place) and assessment (where meeting of learning outcomes is determined).

Commitment to Learning

Learning is a lifelong process. By being committed to learning you are providing a model for all to follow. This model is not only professor to student but involves all combinations of people within our university and broader community

Adherence to this compact is required of the faculty and staff of the College of Natural Resources and of all students enrolled in College of Natural Resources courses.

Academic misconduct will not be tolerated.

Note the following as per the Univ. of Wisc.-Stevens Point Community Bill of Rights and Responsibilities:

UWSP 14.03 ACADEMIC MISCONDUCT SUBJECT TO DISCIPLINARY ACTION.

(1.) Academic misconduct is an act in which a student:

- (a) Seeks to claim credit for the work or efforts of another without authorization or citation;
- (b) Uses unauthorized materials or fabricated data in any academic exercise;
- (c) Forges or falsifies academic documents or records;
- (d) Intentionally impedes or damages the academic work of others;
- (e) Engages in conduct aimed at making false representation of a student's academic performance;

or

(f) Assists other students in any of these acts.

(g) Violates electronic communication policies or standards as agreed upon when logging on initially (See uwsp.edu/it/policy).

(2) Examples of academic misconduct include, but are not limited to: cheating on an examination; collaborating with others in work to be presented, contrary to the stated rules of the course; submitting a paper or assignment as one's own work when a part or all of the paper or assignment is the work of another; submitting a paper or assignment that contains ideas or research of others without appropriately identifying

the sources of those ideas; stealing examinations or course materials; submitting, if contrary to the rules of a course, work previously presented in another course; tampering with the laboratory experiment or computer program of another student; knowingly and intentionally assisting another student in any of the above, including assistance in an arrangement whereby any work, classroom performance, examination or other activity is submitted or performed by a person other than the student under whose name the work is submitted or performed.

UWSP 14.04 DISCIPLINARY SANCTIONS.

- (1) The following are the disciplinary sanctions that may be imposed for academic misconduct in accordance with the procedures of s. UWSP 14.05, 14.06 or 14.07:
 - (a) An oral reprimand;
 - (b) A written reprimand presented only to the student;
 - (c) An assignment to repeat the work, to be graded on its merits;
 - (d) A lower or failing grade on the particular assignment or test;
 - (e) A lower grade in the course;
 - (f) A failing grade in the course;
 - (g) Removal of the student from the course in progress;
 - (h) A written reprimand to be included in the student's disciplinary file;
 - (i) Disciplinary probation; or
 - (j) Suspension or expulsion from the university.
- (2) One or more of the disciplinary sanctions listed in sub. (1) may be imposed for an incident of academic misconduct.

Required Statement on Emergency Preparedness:

“In the event of a medical emergency, call 911 or use red emergency phone located outside Rm151 or 172 on the first floor; 2nd floor between Rms 252 and 255 or between Rms 219 and 221 (on other side of hall); 3rd floor by Rms 320 or 358. Offer assistance if trained and willing to do so. Guide emergency responders to victim.

In the event of a tornado warning and on the 3rd floor proceed to the southern hallways on the 1st or 2nd floors, away from the windows. Those are appropriate shelters. If in room TNR 240, remain in place, that room is an appropriate shelter.

In the event of a fire alarm, evacuate the building in a calm manner. Meet at the northwest corner of parking lot E. Notify instructor or emergency command personnel of any missing individuals.

Active Shooter – Run/Escape, Hide, Fight. If trapped hide, lock doors, turn off lights, spread out and remain quiet. Follow instructions of emergency responders.

See UW-Stevens Point Emergency Management Plan at www.uwsp.edu/rmgt for details on all emergency response at UW-Stevens Point.”

Inclusive Environment:

This course (and our university!) is an inclusive environment. This course might foster discussion, with respectful exchange of ideas and opinions. Disrespect and disparagement will not be tolerated. We have a great opportunity to learn from each other, and to appreciate and understand our differences. See also the CNR Principles of Professionalism, the Society of American Foresters Code of Ethics, and the Forestry Discipline’s anti-harassment statement.

Forestry Anti-harassment Statement

Introduction

In adopting this statement, the forestry discipline within the College of Natural Resources (CNR), at the University of Wisconsin-Stevens Point (UWSP) has expectations for professional behavior of its students, staff, faculty, and other associated parties. Anyone who has a reasonable belief that they, or another student, staff, faculty or guest, have been the victim of harassment, bullying, or discrimination, or any other violation in the statement herein, are encouraged and expected to report the conduct. See reporting options and guidelines at the end of this document. The forestry discipline within the College of Natural Resources is committed to creating a safe, inclusive, and professional environment. The forestry discipline operates under the UWSP harassment, discrimination, and retaliation prevention guidelines, copied here:

“The University of Wisconsin-Stevens Point (UWSP) is committed to fostering an environment that is safe, respectful, and inclusive to all and to educate all employees on these important issues. In addition, we are obligated, under Regent policy and federal regulations, to ensure our employees are informed on the issues of unlawful discrimination, harassment, and sexual violence.”

Statement

The forestry discipline, following the lead of the Society of American Foresters which accredits the B.S. forestry degree, believes we all have a responsibility in creating a safe, inclusive, professional environment in all forestry-related activities and events. All forms of discrimination, harassment, and bullying are prohibited. This applies to all participants in all settings (online and in-person) and locations (on- and off-campus) where forestry classes and associated activities are conducted, including student organization events and activities, committee meetings, workshops, conferences, and other work and social functions where employees, volunteers, sponsors, vendors, or guests are present. Discrimination is prejudicial treatment of individuals or groups of people based on their race, color, creed, religion, age, sex, sexual orientation, gender identity or expression, national origin, ethnicity, ancestry, disability, pregnancy, marital or parental status, veteran status, or any other category protected by law. Sexual harassment is unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature that creates an intimidating, hostile, or offensive environment. Sexual harassment constitutes discrimination and is illegal under federal, state, and local laws.

Bullying is unwelcome, aggressive behavior involving the use of influence, threat, intimidation, ridicule, hazing or coercion to dominate others in the professional environment. Bullying behavior may go beyond characteristics protected by applicable laws, including but not limited to, political views, dress, or other outward physical appearances. Other types of harassment include any verbal or physical conduct directed at individuals or groups of people because of their race, ethnicity, color, national origin, sex, sexual orientation, gender identity, age, religion, disability, veteran status, or any other characteristic protected by applicable laws, that creates an intimidating, hostile, or offensive environment. The following list, while not exhaustive, includes examples of unacceptable behavior: slurs, jokes, threats, or derogatory comments relating to the characteristics noted above. Examples of inappropriate physical harassment that violate this statement include, but are not limited to: assault, unwanted touching, or impeding or blocking movement. In addition, no individual may be denied admission to, or participation in or the benefits of, any UWSP-associated events. Similarly, the display or circulation of derogatory or demeaning posters, cards, cartoons, emails, texts, videos, and graffiti which relate to characteristics noted above violate this statement.

Reporting

Students, staff, faculty, or guests associated with Forestry-related programming who experience or witness incidents of harassment are strongly encouraged to report the incident. The Forestry discipline strongly urges the prompt reporting of complaints or concerns so that rapid and constructive action can be taken.

Reporting can be done online or in person, to a faculty or staff member, and/or the UWSP Dean of Students.

Anonymous reporting is available.

The UWSP Title IX Website is the home for all information related to harassment and discrimination, including reporting options, student and employee resources, and information about what happens after a report is submitted:

<https://www.uwsp.edu/titleix/Pages/default.aspx>

Important information about online course materials and online course endeavors

Instructor Recording and sharing class lectures

If a lecture recording only includes the instructor, the recording is not a student record and not considered protected by FERPA. If a recording includes student interactions (questions, presentations, etc.) and those students are identifiable, the recording would be a protected educational record. The recording could only be made available to the students in that specific class and/or to university officials with legitimate educational interest in that information—a genuine need for access to perform their duties. If the instructor wishes to further share the recording outside of the class, either identifiable students would have to provide written consent to release their participation or portions of the recording would have to be changed or omitted to avoid identifying students. But again, if no students are identifiable in any way (seen, heard or named), the recording would not be FERPA protected. Additionally, recordings that include student interactions are appropriate for posting within Canvas.

Student Recording and Sharing Class Lecture

Sometimes students record lectures or copy lecture materials (including instructor's recordings) and post them outside of class on internet sites or provide them to note sharing companies. These acts can violate intellectual property rights held by the instructor and the university. UW System Board of Regent policy authorizes instructors to limit or restrict students from copying, recording or using instructional materials or lectures unless necessary to reasonably accommodate a student's disability. [Regent Policy Document 4-1] If an instructor wishes to impose restrictions, the instructor should inform students of the limitations and the potential consequences of being subject to charges of student misconduct. Notification can be made through a syllabus, a lecture, or by other means to ensure awareness

Given the above please note that Lecture/Lab materials and recordings for FOR 370 are protected intellectual property at UW-Stevens Point. Students in this course may use the materials and recordings for their personal use related to participation in this class. Students may also take notes solely for their personal use. If a lecture/lab is not already recorded, you are not authorized to record lectures/labs without instructor permission unless you are considered by the university to be a qualified student with a disability requiring accommodation. [Regent Policy Document 4-1] Students may not copy or share lecture materials and recordings outside of class, including posting on internet sites or selling to commercial entities. Students are also prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor's express written permission. Unauthorized use of these copyrighted lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct.

Course Outline
(Subject to Change)

Date	Lecture	Task/assignment
January 29	Class Introduction Intro to harvesting systems	King Spruce Video (Q&A)
February 5	Felling	- Quiz - Risk assessment, - Magazine article summary - BMP Ch 6 (Q & A)
February 12	Processing, Loading	- Quiz - Magazine article summary - BMP Ch 1,2,9 (Q & A)
February 19	Primary and Secondary transportation	- Quiz - Transportation exercises - Magazine article summary - BMP Ch 7,8 (Q & A)
February 26	Harvesting productivity and cost	- Quiz - Magazine article summary - Breakeven point
March 5	Harvesting productivity and cost continued	Worksheet to calculate break-even point
March 12		Field trip
March 19		Midterm
March 26		Spring Break
April 2	Harvest planning	- Quiz - BMP Ch 3 (Q & A) - Magazine article summary Explanation of paper critique assignment
April 9	Forest Roads/ Stream crossings	- Magazine article summary - BMP Ch 4,5 (Q&A)
April 16	Overview of timber sale in WI Timber security and sale contracts	Timber sale contract prep
April 23		Field Trip
April 30	Timber sale bid price determination and stumpage valuation	Timber bid exercise/ Paper critique report due
May 7	Cable systems	Student presentations
May 14	Student presentations	