COURSE SYLLABUS

GENERAL INFORMATION	**Fall Semester**	
Course Title and Number:	**Silviculture - Forestry 229**	
Required Text(s) and Laboratory Manuals:	**The Practice of Silviculture, David Smith, 9th edition., NED version 1.1**	
Instructor:	**Prof. John Jastrzembski , Associate Professor of Forestry jjastrzembski@allegany.edu**	
Office Location/Hours:	**T-128:**	**Monday 9:00 - 10:00 a.m. Friday 9:00-11:00 a.m.**
Day and Time of Class Meetings:	**Lecture:**	**Mon&Fri 11:00 - 11:50a.m.**
	Lab:	**Wed. 10:00 - 5:00 p.m.**
Phone Numbers:	**Office:**	**301-784-5309**
	E-Mail:	**jjastrzembski@allegany.edu**

Note: Material sequence may be altered if there is inclement weather of for guest speaker scheduling.

I. Purpose

A. This course will include an introduction to climate, soils, and biotic factors affecting the composition and growth of forest stands; development of trees and stands with respect of height, diameter, volume, growth, reproduction; health of forest stands and sustainable maintenance of forest ecosystems. Students will investigate the importance of silvicultural practices of weeding, improvement cuttings, thinning, pruning, and reproduction; marking of stands prior to logging or forest health maintenance. Students will learn the basic principles of forest nursery management, reforestation and afforestation. Silvicultural Systems and their role as a tool for sustainable ecosystem management will be covered. This is a four semester hour class with two hours of lecture and six hours of lab each week.

B. This course is designed to familiarize Forest Technology students with the field of silviculture and forest management as it pertains to managing, tending and nurturing woodlands for long-term forest health, social needs. Emphasis is placed on the role of silviculture to enhance forested ecosystems to insure sustainability of the resource.

II. Course Policies

A. Attendance: Attendance is required. Upon missing three classes or two labs a student will be dropped from the class

B. **Class participation: Participation is essential. Students are assigned to work in small groups on a routine basis; it is essential that students be willing to cooperate and communicate to complete course load.**

C. **Grading: Weekly exams, lab projects, and a final exam, will be given to determine your grade. Note that all exams are cumulative. The grading system follows:**

Quizes	
Ten at 50 points each	**500 points**
Lab Reports	
Six at 50 points each	**300 points**
Lab Practical	**100 points**
Lecture Final	**100 points**
Total Points	**1,000**

Grading Scale:

$$\% = \frac{\text{Accumulated Points}}{\text{Total Points}}$$

Grade	Percentage
A	**90 - 100**
B	**80 - 91**
C	**70 - 80**
D	**60 - 69**
F	**less than 60**

Please note: **No make-up exams will be**

D. **Extra Credit:** **There is no extra credit for this class.**

E. **Tutoring and extra help:** **Assistance will be available on an individual or group session request.**

F. **Acceptable style/format of assignments: All reports are to be typed (preferably done on the computer) double space on white paper. Details for each report will be distributed at a later date.**

G. **Assignment Deadlines:** **See II C.**

H. **Plagiarism and cheating:** **Refer to Student Handbook.**

I. **Exams and Quizzes:** **See II C. Make-up quizzes and exams are generally not permitted except for extenuating circumstances.**

III. Course Requirements

A. Class Schedule: **See next page.**

B. Library Assignments: **As required for lab reports.**

C. Required Reading: **See III A.**

D. Recommended Reading: **Silvics of North America and Silviculture Systems of the United States are on reserve in the instructor's office.**

Course Schedule

Wk	Lecture	Laboratory	Lecture	Notes*
1	Introduction	Shade & Moisture Tolerance	Stand Age Class	Read Ch. 1
2	The Role of Soils in Ecosystems	Soil Clsf., survey, soil tests. *Lab Report#1*	Soil Properties	Read Ch. 2 & Soil
3	Soil Nutrients	Site Index, Site Quality, Stocking, Succession. *Lab Report#2*	Growing Space - the impact on ecosystems Lab Rpt #1 Due	Read Ch. 3
4	Individual Tree and Treatment	Christmas Tree Production. *Lab Report #3*	Methods of Thinning Lab Report #2 Due	Read Ch. 4
5	Applications of Thinning	Thinning/Pruning Applied *Lab Report#4*	Release Operations Lab Report # 3 Due	Read Ch. 5
6	Herbicides role on sustainable forestry	Stocking Guides Regulation Applied	Improvement Cuts and Salvage Lab Report # 4 Due	Read Ch. 6-7
7	Regeneration of forest stands and ecosystems	NED Stocking Guide Thinning *Lab Report #5*	Site Treatment	Read Ch. 8-9
8	Genetic Improvement & Nursery Operations	Crop Tree Release *Lab Report#6*	Nursery operations and Tree Planting Lab Report # 5 Due	Read Ch 11-12
9	Silviculture Systems and Regeneration Methods on forest stands and ecosystems	USFS Tour *Lab Report #7* Parsons, WV	Clearcut System Lab Report # 6 Due	Read Ch 13
10	Shelterwood System	Pine Management *Lab Report #8*	Seed Tree System Lab Report #7 Due	Read Ch 14
11	Sustainable Forest Ecosystems: Silviculture and and Wildlife	Hardwood Marking	Sustainable Forest Ecosystems: Silviculture and Water Quality	Read Ch 20,18
12	Sustainable Forest Ecosystems: Silviculture and Ethics, SAF Code of Ethics	Pine Marking and Thinning Application	Sustainable Forest Ecosystems: Silviculture and Old Growth Lab Report #8 Due	Read Ch 17, 19
13	Selection System	Lab Practical Old Growth Site Visit- Cathedral State Park, Swallow Falls State Park	Uneven Aged Management	Read Ch 15, 16
14	Deferred Rotations	Selection System (in class) cut rations / NED / system guidleines	Selection System (computer)	
15	Selection System Marking Program	Selection System Marking	Final Exam & Lab Practical	

***Note: Readings will be modified. Use this as a guide to help you study!**

Assignments must be handed in at the beginning of the specified class. Lab Reports will not be accepted after the due date.