

Bertha-Hewitt High School
Fall Semester Curriculum map 2015-16
Steve Pauly – Instructor
Course Length: 18 weeks (90 weeks)
Program code: 019901
Course Code: 81

Academic Standard Area: **Elective** *Course Title/Strand:* **Forestry and wildlife** *Grade Level:* **10-12**

Textbook & Copyright: **Forestry Science**
Wildlife and Natural resources
 Forest Management Digest 5th Edition

| WEEK # | TIMELINE | CONTENT/UNIT/SUB-STRAND | PROCESS/ACTIVITY/STANDARD | GOALS/BENCHMARK | ASSESSMENT | RESOURCES |
|--------|----------|--|---|--|--|---|
| 1-2 | 10 days | Leaf and tree Identification | Identify trees and leaf samples both coniferous trees and deciduous tree | Students will identify 30 leaf samples of Minnesota trees | 5-7 Practice sessions followed by an identification test | The Forest Management Digest 5 th Edition 1986 |
| 3 | 3 days | Use of the compass and navigating using pace count | Outdoor activity: Students will navigate through a compass course | All students will be able to read directions of a compass and figure out distances with pace counts | 2 practice sessions 1 test | State FFA CDE handbook on Forestry |
| 3 | 2 days | Timber cruising exercise | Measure the standing bd. ft. of trees. Identify the tree. Diameter breast height and the Number of 8 foot logs in a tree. | Students will be able to measure the standing Bd. Ft and the cords of a tree | 1 practice session outdoors. 1 outdoor test. | The Forest Management Digest 5 th edition 1986 State FFA CDE Handbook |
| 4 | 5 days | Legal land descriptions | Write up legal land descriptions using plat books from Todd, Ottertail and Wadena Counties. Introduction to Land measurement. Worksheets on legal land description. | Students will be able to write a legal land description of properties from 20 acres to 640 acres. | 3 worksheets 1 written exam | Plat books State FFA CDE handbook in forestry |
| 5-6 | 7 days | Forest Management Problem | Accounting on a typical Forest management enterprise. Includes a list of assets and liabilities. Expenses and receipts. | Students will fill out a profit and loss statement. Students will also answer management questions about the enterprise. | Introduction to accounting. Forest Management practice problems(3). And Final Exam Problem | State FFA CDE Handbook in forestry |
| 6 | 2 days | Converting quadrant reading to compass degrees | Indoor activity worksheet of quadrant readings and change it to compass readings | Students will change quadrant readings to compass readings for use the forest. | 1 worksheet and 1 quiz | State FFA CDE Handbook in Forestry |

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| 7-8 | 10 days | Bird ID and notes | Using the VCR students will be given identifying characteristics of Minnesota Wildlife. Notes on hunting regulations and conservation of birds in Minnesota | Students will ID 37 different Minnesota Birds, including song birds, upland game birds, shorebirds and waterfowl | ID practices and Bird ID tests | State FFA CDE Handbook in Fish and Wildlife |
| 9-10 | 10 days | Whitetail deer | Management of the whitetail deer. Characteristics of the whitetail deer including color, breeding habits, feeding areas, Scent glands and their locations. Antler growth. Deer communication. | Students will Watch the Video “ A year in Whitetail country” and fill out a video guide. Take notes on deer. review for test | Video Notes Written 100 point test on deer | Minnesota Deer Hunter’s curriculum |
| 11-12 | 10 days | Fish ID and Notes | Using VCR, students will be given identifying characteristics of Minnesota Fish. Notes on fishing regulation in Minnesota, including Minnesota possession limits. | Students will ID 25 different Minnesota Fish. Fish families include salmon, sunfish, minnow, pike, perch. | Written test and ID test on Fish | State FFA CDE handbook in Fish and wildlife |
| 13-14 | 10 days | Mammal ID and Notes | Using VCR, students will be given identifying characteristics of Minnesota Mammal. Notes on hunting regulations in Minnesota. Trapping regulations in Minnesota | Students will ID 35 Minnesota mammals. Students will understand the Hunting and trapping regulations | Written test and ID test on mammals | State FFA CDE handbook in Fish and Wildlife. |
| 15-16 | 10 days | Wildlife research paper | Using the internet and the library, Students will research and write with foot notes a wildlife research paper. | Students will construct research paper on Identifying characteristics, animal reproduction, feeding habits, habitat, communication, territorial habits, etc. | 3-5 type written, 12 font research paper | Library and internet |
| 17-18 | 10 days | Computer made home sight designed to encourage wildlife. | Using Punch Pro Platinum computer program, students will design a 80 acre homestead to encourage wildlife habitat. | Student will construct a homestead with trees, shrubs, water, perennials, and grasses to enhance wildlife habitat | Print a top view of the homestead and 2 3-D views | Punch Pro Platinum computer program. |
| 16-18 | | | | | | |

Check the MN Dept of Ed website for Academic Standard information