### Form 8 Forestry Foundation Course Plan

**School of Forestry**

**Northern Arizona University**

**NAU Box 15018 Flagstaff, Arizona, U.S.A. 86011-5018**

Student name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Degree sought: \_\_\_M.F. \_\_\_ M.S.F. \_\_\_ Ph.D.

1. **Forest Ecology and Biology; 3 semester credit hours in the following subjects(s):** taxonomy, distribution, and ecological characteristics of trees and other important plants; physiology of trees, including metabolism and growth; forest stand dynamics; basic and applied genetics; ecological concepts and principles, including structure and function of ecosystems; soil formation, classification, composition, and properties; silviculture, including methods of establishing and tending the composition, growth and quality of forest stands to meet landowner objectives; water in forest ecosystems, including plant-water relationships, watershed condition and forest water quality; entomology and pathology, including the study of representative forest organisms, invasive species, and the application of integrated pest management; and wildlife and fish biology and ecology.

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| **Course No./Title** | **Credit hours\*** | **Grade** | **Term/**  **Year** | **University/program** |
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\*Specify quarter or semester

1. **Management of Forest Resources, and Forest Resource Policy and Administration; 3 semester credit hours in the following subject(s):** policy development; administration; land and resource planning; budgeting; financial and personnel management; integrated forest resource management at stand-, system-, and landscape-scales, with consideration of wood, forage, water, wildlife, fish, recreation, cultural, educational and aesthetic benefits; silviculture, including methods of establishing and controlling the composition, growth, and quality of forest stands, including fire ecology and use of fire; and forest engineering, harvesting, and utilization.

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| **Course No./Title** | **Credit hours\*** | **Grade** | **Term/**  **Year** | **University/program** |
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1. **Measurement of Forest Resources; 3 semester credit hours in the following subject(s):** land measurement, geographic information systems, photogrammetry and remote sensing; sampling theory and methods; measurement of trees, forests, and forest products; wildlife habitat assessment; measurement of water yields and quality; assessment of air quality and of the aesthetic, cultural, mineral, range, recreation, and wilderness values of forests.

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| **Course No./Title** | **Credit hours\*** | **Grade** | **Term/**  **Year** | **University/program** |
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\*Specify quarter or semester

**Signatures**

Student: Date: \_\_\_\_\_\_\_\_\_\_\_\_

Advisor: Date: \_\_\_\_\_\_\_\_\_\_\_\_

Graduate Coordinator: Date: \_\_\_\_\_\_\_\_\_\_\_\_

School Executive Director: Date: \_\_\_\_\_\_\_\_\_\_\_\_