

**MASTER FORESTRY PROGRAM
REVIEW FORM SPRING 2019**

NAME: _____

EXPECTED GRADUATION DATE: _____

SUMMER MODULES

- ____ F&ES 001 Urban Ecosystem Analysis
 ____ F&ES 002 Land Measurement and Mapping
 ____ F&ES 003 Ecosystem Measurement

SUMMER INTERNSHIP/RESEARCH

- ____ F&ES 006 Internship/Research
 ____ F&ES 007 Apprentice Forester Program

Please check all courses completed and indicate courses that will be completed with an asterisk.

A. Basic Knowledge**1. Biological Science** (three courses from different topic areas)a. **Topic Area:** Tree Physiology, Morphology and Taxonomy

- F&ES 652b Wood Structure and Function
 F&ES 654a Structure, Function and Development of Trees and Other Vascular Plants
 F&ES 671a Natural History and Taxonomy of Trees
 F&ES 679a Plant Ecophysiology
 F&ES 731b Tropical Field Botany
 Approved Other:

b. **Topic Area:** Forest Ecology, Forest Dynamics

- F&ES 660a Forest Dynamics: Growth & Development of Forest Stands
 F&ES 752a Ecology and Conversation of Tropical Forests
 Approved Other:

c. **Topic Area:** Ecosystem and Community Ecology

- F&ES 530a Ecosystems and Landscapes
 F&ES 740b Dynamics of Ecological Systems
 Approved Other:

d. **Topic Area:** Forest Health/Restoration

- (F&ES 674b Seminar in Forest Health and Climate Change) – not offered 18-19
 (F&ES 650b, Fire: Science and Policy) – not offered 18-19
 (F&ES 683b Seminar in Tropical Forest Restoration in Human Dominated Landscapes) not offered 18-19
 Approved Other:

2. Physical Sciences (two courses from different topic areas)a. **Topic Area:** Soils and Geology

- F&ES 709a Soil Science
 G&G 110a Dynamic Earth
 Approved Other:

b. Topic Area: Hydrology

- F&ES 714b Environmental Hydrology
 F&ES 724a Watershed Cycles and Processes
 (F&ES 644a Watershed Science) – not offered 18-19
 Approved Other:

c. **Topic Area:** Biometeorology

- G&G 322a Physics of Weather and Climate
 G&G 140a Atmosphere, Oceans and Climate Change
 G&G 120a Earths Changing Climate
 F&ES 630b The Physical Science of Climate Change
 Approved Other:

3. Social Sciences (two courses, one from each topic area)a. **Topic Area:** Social and Political Ecology & Anthropology

- F&ES 520a Society & Environ. Intro to Theory & Method
 F&ES 615b Political Ecology of Conservation and Restoration of Tropical Forests
 F&ES 764a Environment, Culture, Morality, and Politics
 F&ES 839a Social Science of Development and Conservation
 Approved Other:

b. **Topic Area:** Policy Science & Law

- F&ES 627b Environmental Law
 F&ES 820b Land Use Law
 F&ES 824a Environmental Law and Policy
 F&ES 826a Foundations of Natural Resource Policy & Management
 F&ES 829b Global Environmental Governance
 Approved Other:

B. Frameworks and Skills

1. **Economics** (one course)

- Forest and Ecosystem Finance
- F&ES 804b Economics of Environment and Natural Resource Management
- F&ES 834b Environmental Economics
- Approved Other:

2. **Silviculture** (one course)

- F&ES 659b Principles in Applied Ecology: the Practice of Silviculture
- Approved Other:

3. **Measurement** (one course)

- F&ES 510a Introduction to Statistics for the Environmental Sciences
- F&ES 751b Sampling Methodology and Practice
- F&ES 753a Regression Modeling of Ecological and Environmental Data
- F&ES 758b Multivariate Statistical Analysis in the Environmental Sciences
- F&ES 781b Applied Spatial Statistics
- Approved Other:

4. **GIS** (one course strongly recommended)

- F&ES 726b Remote Sensing: Observing the Earth from Space
- F&ES 755b Modeling Geographic Space
- F&ES 756a Modeling Geographic Objects

C. Synthesis and Analysis

1. **Management of Forest Resources** (one course/both recommended)

- F&ES 954a Management Plans for Protected Areas
- F&ES 676b Forest Ecosystem Management
- Approved Other:

3. **Professional Ethics (required)**

- F&ES 009 Professional Ethics

2. **Professional Skills – Concentration Area**

see concentration area examples (three courses)

- F&ES 669b Forest Operations (strongly recommended)
- : _____
- : _____

4. **Workshops and Skill Modules** (optional but strongly recommended)

- PSC Short Course:

D. Capstone - Leadership

- F&ES 837b Seminar on Leadership in Natural Resources and the Environment
- F&ES 955a, b Seminar in Research Analysis, Writing, Communication in Forest ecology and Management
- Approve Project Course:

E. Field Trips (one week long field trip)

- F&ES 668b Field Trips in Forest Resource Management and Silviculture
- F&ES 670b Southern Forest and Forestry Field Trip
- Approved Other:

STUDENT'S SIGNATURE: _____

ADVISOR'S SIGNATURE: _____

MF PROGRAM COORDINATOR SIGNATURE: _____

REGISTRAR'S SIGNATURE: _____

Return to the Registrar's Office by February 1st

MASTER OF FORESTRY NOTES

During the academic year there are twelve course bins that need to be filled to meet the Master of Forestry. However, there is considerable flexibility. Prior upper-level coursework at other institutions may qualify for bin coverage allowing the student to qualify for an exemption approved by the MF coordinator. In addition, a course of choice by the student not listed within a bin may be approved. Beyond the course bin requirements that fulfill SAF accreditation in course and subject area distribution, students are encouraged to choose their remaining 4-6 electives to gain proficiency in a region and/or topic area concerning forestry

Examples of Electives Available for Popular Self-Designed Concentration Areas in the Master of Forestry

Tropical Forestry and Community Development

F&ES 681a	Ethnobotany – not offered 18-19
F&ES 717b	Tropical Field Ecology
F&ES 760b	Conservation in Practice: An International Perspective
F&ES 799b	Sustainable Development Goals and Implementation
F&ES 836a	Agrarian Societies: Culture, Society, History and Development
F&ES 876b	Indigenous Traditions and the Environment

Timberland Investment and Ecosystem Finance

F&ES 636a	Sustainable Finance
F&ES 669b	Forest Operations
F&ES 742b	Fundamentals of Working with People
F&ES 767b	Tools for Conservation Project Design and Management
F&ES 807a	Corporate Environmental Management and Strategy
F&ES 811b	Metrics, Tools and Indicators in Corporate Responsibility
MGT 502	Foundations of Accounting and Valuation
MGT 525	Competitive Strategy

Urban Forestry and Community Development

F&ES 573a	Urban Ecology for Local and Regional Decision Making
F&ES 643a	Managing the Environment with People in Mind
F&ES 614b	Justice, Nature and Reflective Environmental Practice
F&ES 742b	Fundamentals of Working with People
F&ES 788	Urban Ecology – not offered 18-19
F&ES 817a	Urban, Suburban, and Regional Planning Practice
F&ES 846	Perspectives on Environmental Injustices
F&ES 888b	Ecological Urban Design
F&ES 975b	Environmental Justice Capstone

Forest Policy and Governance

F&ES 658a	Global Resources, International Resource Exchanges, and the Environment
F&ES 702b	Climate Change Seminar
F&ES 767b	Tools for Conservation Project Design and Management
F&ES 828b	Comparative Environmental Law in Global Systems
F&ES 840a	Climate Change Policy and Perspectives

Agriculture and Agroforestry

F&ES 646	Foundations of Agriculture and Environment
F&ES 692a	Science and Practice of Temperate Agroforestry
F&ES 669b	Forest Operations
F&ES 727a	Food: Science, Law & Policy
F&ES 772a	Social Justice in the Global Food System
F&ES 774a	Agriculture: Origin, Evolution, Crises
F&ES 836a	Agrarian Societies: Culture, Society, History and Development

Public Lands Management

F&ES 669b	Forest Operations
F&ES 742b	Fundamentals of Working with People
F&ES 719b	Strategies in Land Conservation
F&ES 767b	Tools for Conservation Project Design and Management
F&ES 822a,b	Strategic Communication in Delivering Effective Communication
F&ES 964	Largescale Conservation: Integrating Science, Management and Policy

Extension, Education, and Communication

F&ES 625b	Writing Workshop
F&ES 743b	Strategic Environmental Communication
F&ES 747a	Global Communication Skills
F&ES 750a	Writing the World

Watershed Management

F&ES 644	Watershed Science
F&ES 669b	Forest Operations
F&ES 712a	Water Resource Management
F&ES 723a	Wetlands Ecology, Conservation & Management
F&ES 719b	Strategies in Land Conservation
F&ES 732	Hydrology and Riverine Geomorphology)
F&ES 767b	Tools for Conservation Project Design and Management
F&ES 898a	Environment and Human Health

Conservation Forestry and Protected Areas

F&ES 669b	Forest Operations
F&ES 719b	Strategies in Land Conservation
F&ES 741b	Ecosystem Measurements for Conservation and Restoration
F&ES 742b	Fundamentals of Working with People
F&ES 743b	Strategic Environmental Communication
F&ES 767b	Tools for Conservation Project Design and Management