

Accelerated Master of Forestry Program

School of Forest Resources and Environmental Science

A 4+1 program with enhanced training in advanced technologies.

Contacts:

Andrew J. Storer, Associate Dean

Tara L. Bal, MF Program Director

Summary of Class Requirements:

Required classes	FW5810 – Research methods in natural resources. Fall.	2 credits	Subtotal 14 credits
	FW5999 – Master’s graduate seminar. Fall and Spring.	1 credit	
	FW5377 - Advanced Forest & Environmental Resource Management II. Fall and Spring.	2 credits	
	MA5701 - Statistical Methods. Fall.	3 credits	
	Credits applied to both BS and MF degree	6 credits	
Directed electives			
	Three classes in remote sensing/geographic information systems.	8-12 credits	Subtotal 13-18 credits
	One additional statistics class.	3 credits	
	One class in the area of forest biology.	2-3 credits	
Free electives			
		0-3 credits	Subtotal 0-3 credits
		Grand total	30-32 credits

Directed Electives

Three classes in remote sensing/geographic information systems from the list below (8-12 credits)

Fall	Spring
FW5550 - GIS for Resource Management (4 credits)	FW5560 - Digital Image Processing: A Remote Sensing Perspective (3 credits, Spring) Pre-requisite: FW5550
FW5554 - GPS Field Techniques (2 credits)	FW4545 - Map Design with GIS (3 credits, alternate Spring) Pre-requisite: FW3540 or FW5550
FW4540 - Remote Sensing of the Environment (3 credits - alternate Fall semesters)	FW5555 Advanced GIS concepts and Analysis (3 credits)
FW5540 - Advanced Terrestrial Remote	FW5556 GIS Project management (3

Sensing (4 credits, alternate Fall semesters)	credits)
SU4140 Photogrammetry (3 credits). Prerequisite SU2260	SU 5002 – Infrared technology, Sensors, and Applications (1 credits, on demand)
SU 5043 – Topographic Analysis (3 credits, on demand)	SU 5020 – Data Analysis and Adjustments (3 credits, offered on demand)
SU 5023 – Geospatial Positioning (3 credits, on demand)	

One additional statistics class (3 credits).

Fall	Spring
MA 5711 - Mathematical Statistics I (3 credits). Prerequisites MA 4450 and MA 4760 and MA 4770	FW5510 - Spatial Statistics (3 credits)
MA 5731 - Linear Models (3 credits). Prerequisites MA 4710 and MA 4720 and MA 4760 and MA 4330	FW 5411—Applied Regression Analysis. Offered alternate years starting in 2013-14 academic year (3 credits)
MA 4720—Design and Analysis of Experiments (3 credits)	FW 4900 - Applied Experiment Design and Data Analysis. Offered alternate years starting in 2013-14 academic year (3 credits)
MA 4760—Mathematical Statistics (3 credits). Prerequisite MA 3720	MA 5712 - Mathematical Statistics II (3 credits). Prerequisite MA 5711
EC 4200 – Econometrics (3 credits). Prerequisites EC 2001 or EC 3002 or EC 3003) and (BA 2100 or BUS 2100 or MA 2710 or MA 2720 or MA 3710) and (MA 1135 or MA 1160 or MA 1161	MA 4710 - Regression Analysis (3 credits). Prerequisite MA 2720 or MA 3710
	MA 4770 - Mathematical Statistics II (3 credits). Prerequisite MA 4760
	MA 5791 Categorical Data Analysis (3 credits, alternate years starting in 2005-06)

One class in the area of forest biology. 2-3 credits.

Fall	Spring
FW 5368 - Forest Ecophysiology Offered alternate years beginning with the 2012-2013 academic year (2 credits)	FW 5130 - Forest Vegetation Dynamics Offered alternate years beginning with the 2012-2013 academic year (3 credits)
FW 5340 - Population Genetics and Applied Forest Genetics (3 credits)	FW 5135 - Plant Community Ecology Offered alternate years beginning with the 2013-2014 academic year (3 credits)
	FW 5115 - Restoration Ecology Offered alternate years beginning with the 2013-2014 academic year (3 credits)
	FW 5100 – Advanced Terrestrial Ecology (3 credits)

Sample Curriculum after completion of undergraduate degree (assumes no credits taken under senior rule)

6 credits counted towards both degrees (3000 level or higher).

Fall	Spring
MA5701 - Statistical Methods (3 credits)	FW5510 - Spatial Statistics (3 credits)
FW5810 - Research methods in natural resources (2 credits)	FW5560 - Digital Image Processing: A Remote Sensing Perspective (3 credits) Pre-requisite: FW5550
FW 5800 - Master's Graduate Seminar (1 credit)	FW 5377 - Advanced Forest & Environmental Resource Management II. (2 credits).
FW5550 - GIS for Resource Management (4 credits)	
FW5554 - GPS Field Techniques (2 credits)	
Total 12 credits	Total 12 credits

Sample 5-year curriculum (Class number, name and number of credits)

Year 1	Fall	Spring
	UN1001 Perspectives on inquiry (3) FW2051 Field Techniques (1) FW2010 Vegetation of North America (4) MA1135 Calculus for Life Sciences (4) HASS Distribution (3)	UN1002 World Cultures (4) BL2160 Botany (4) CH1150 University Chemistry I (3) CH1151 University Chemistry Lab I (1) FW1050 Natural Resources Seminar (1) Free Elective (3)
	Total 15 credits	Total 16 credits
Year 2	Fall	Spring
	UN2001 Composition (3) MA2720 Statistical Methods (4) FW3020 Forest Ecology (3) FW3330 Soil Science (4) HASS Distribution (3)	UN2002 Institutions (3) FW1035 Wood anatomy (4) FW3200 Biometrics and Data Analysis (4) FW3540 Intro to GIS (4)
	Total 17 credits	Total 15 credits
Year 3	Fall	Spring
	FALL CAMP FW3010 Practice of Silviculture (4) FW3840 Forest Health (3) FW3600 Wildlife Habitat (3) FW3170 Land Measurements/GPS (1) FW3190 Multi-resource Assessment (3) FW3150 Timber Harvesting (2)	FW4080 Forest Economics and Finance (3) Directed Elective (3) FW3110 Natural Resource Policy (3) FW4140 Vegetation Modeling (2) Directed Elective (3) HASS Distribution (3)
	Total 16 credits	Total 17 credits
Year 4	Fall	Spring
	FW4810 Integrated Resource Assessment (4) HASS Distribution (3) FW4150 Forest Resource Management (3) Free Elective (6)	Free Elective (13) EC3400 Economic Decision Analysis (3) OR BUS2200 Business Law (3) OR PUS2300 Quantitative Problem Solving (3) OR OSM 3200 Project Management (3)
	Total 16 credits	Total 16 credits
Year 5	Fall	Spring
	MA5701 Statistical Methods (3) FW5810 Research Methods in Natural Resources (2) FW5800 Master's Graduate Seminar (1) FW5550 GIS for Resource Management (4) FW5554 GPS Field Techniques (2)	FW5510 Spatial Statistics (3) FW5560 Digital Image Processing: A Remote Sensing Perspective (3) FW 5377 Advanced Forest & Environmental Resource Management II. (2).
	Total 12 credits	Total 12 credits

Grand Total: 152 Credits

Directed electives are selected from FW3320 Forest Genetics and Genomics (3 cr.), FW4120 Tree Physiology (3 cr.), FW4220 Wetlands (4 cr.), FW4370 Forest and Landscape Hydrology (3 cr.)