

Virginia Tech's Executive Master of Natural Resources (XMNR) program engages a new generation of professionals to develop skills in leadership for sustainability. Each year, a new cohort of 20-30 students starts the program and begins a rigorous 12-month process of peer-to-peer experiential learning and collaborative problem-solving.

The XMNR program emphasizes the development of advanced leadership, management, and administrative skills for achieving local, regional, and global sustainability goals. Students graduate with competencies in leading people, leading change, business and political acumen, and demonstrated results for their respective employer. Immediate program outcomes include organizational and policy changes while long-term outcomes include personal and cultural transformation.

## XMNR CORE COMPETENCIES

## **LEADERSHIP & INNOVATION**

Ethics and integrity
Interpersonal skills
Communication Team building
Strategic thinking
Vision and creativity
Flexibility
Problem solving
Conflict management
Entrepreneurship
Building coalitions
Political savvy
Social movements
Cultural transformation
Global perspective

This core competency reflects strategic leadership skills as identified in public and private sector professional development programs such as Senior Executive Service of the Office of Personnel Management.

## **ENVIRONMENT & SUSTAINABILITY**

Earth systems
Ecological services
Climate and energy
Land and water
Biodiversity
Population change
Globalization
Health, welfare, equity
Risk and security
Indicators and criteria
Life cycle analysis
Certification and standards
Behavior change
Planning and design
Resilience

This core competency reflects multi-scale issues identified by organizations such as the Association for the Advancement of Sustainability in Higher Education (AASHE), National Council for Science and the Environment (NCSE), Ecological Society of America (ESA), US Green Building Council (USGBC), and Environmental Protection Agency (EPA).

## MANAGEMENT & ADMINISTRATION

Finance and accounting
Human resources
Technology
Marketing
Law and policy
Critical analysis
Strategic planning
Negotiation
Decision making
Partnering
Accountability
Performance evaluations
Adaptive management
Market-based strategies
Governance

This core competency reflects core requirements for graduate programs such as Master of Business Administration (MBA), Master of Public Administration (MPA), and Master of Organizational Development (MOD).



