

Course Lists for GPES Areas of Study

****Note for All Course Lists:** students may select from appropriate courses that become available or are not listed below if given approval by steering committee.

1. Applied Social Science List

Relevant to all Areas of Study

○ ESF courses

EFB 522 Biophysical Economics

EST 550 Environmental Impact Analysis

EST 600 Foundations of Environmental Studies

EST 606 Environmental Risk Perception

EST 608 Environmental Advocacy Campaigns and Conflict Resolution

EST 612 Environmental Policy and Governance

EST 625 Wetland Management Policy

EST 626 Concepts and Principles of Sustainable Development

EST 628 Great Lakes Policy and Management

EST 635 Public Participation and Decision Making

EST 640 Environmental Thought and Ethics

EST 650 Environmental Perception and Human Behavior

EST 696 Nature, Recreation and Society

FOR 665 Natural Resources and Environmental Policy

FOR 670 Resource and Environmental Economics

FOR 687 Environmental Law and Policy

FOR 685 Business and Managerial Law

FOR 753 Advanced Natural Resource and Environmental Policy

○ SU courses – depends upon interest of the student and steering committee

2. Research Methods/Tools

○ ESF courses

APM 510 Statistical Analysis

APM 595 Probability and Statistics for Engineers

APM 620 Experimental Design and ANOVA

APM 625 Sampling Methods

APM 630 Regression Analysis

APM 635 Multivariate Statistical Methods

APM 645 Nonparametric Statistics and Categorical Data Analysis

ENS 519 Spatial Ecology

ERE 530 Numerical and Computing Methods

ERE 551 GIS for Engineers

ERE 621 Spatial Analysis

ERE 622 Digital Image Analysis

ERE 645 Hydrologic Modeling

ERE 665 Environmental Systems Engineering
EST 603 Research Methods and Design
EST 604 Social Survey Research Methods for Environmental Issues
EST 605 Qualitative Methods
EST 702 Environmental and Natural Resources Program Evaluation
FOR 557 Practical Vector GIS
LSA 500 2D Digital Graphics and Documents
LSA 501 Computer Graphics II
LSA 640 Research Methods
○ SU courses – depends upon interest of the student and steering committee
○ *Note: ECPP Area of Study faculty would still prefer two courses from this list required instead of one.

3. Biophysical Science List:

○ ESF courses
CEN 573 Principles and Design in Air Pollution Control
CIE 554 Principles of Environmental Toxicology
EFB 516 Ecosystems
EFB 518 Systems Ecology
EFB 522 Biophysical Economics
EFB 525 Limnology Practicum
EFB 600 Toxic Health Hazards
EFB 611 Topics in Environmental Toxicology
EFB 624 Limnology
ESC 525 Energy Systems
ESC 535 Renewable Energy
ENS 622 Energy Markets and Regulation
ENS 607 Wetland Practicum
FOR 521 Forest Ecology and Silviculture
FOR 523 Tropical Ecology
FOR 532 Forest Ecology
FOR 540 Watershed Hydrology
FOR 545 Introduction to Soils
FOR 607 Restoration Ecology
FOR 642 Watershed Ecology and Management
FOR 680 Urban Forestry