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. 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 609 Collaborative Governance Processes for Environmental and Natural Resource Management
  - EST 612 Environmental Policy and Governance
  - EST 625 Wetland Management Policy
  - EST 626 Concepts and Principles of Sustainable Development
  - EST 635 Public Participation and Decision Making
  - EST 640 Environmental Thought and Ethics
  - EST 645 Mass Media and Environmental Affairs
  - EST 650 Environmental Perception and Human Behavior
  - EST 660 Land Use Law
  - EST 705 Environmental Policy Analysis
  - EST 708 Social Theory and the Environment
  - FOR 665 Natural Resources Policy
  - FOR 670 Resource and Environmental Economics
  - FOR 687 Environmental Law and Policy
  - FOR 689 Natural Resources Law and 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 Fundamentals of Geographic Information Systems
LSA 500 Digital Methods & Graphics
LSA 501 Digital Methods & 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
  ESC 525 Energy Systems
  ENS 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