State University of New York
College of Environmental Science and Forestry

GRADUATE PROGRAM
IN
ENVIRONMENTAL SCIENCE

Master of Science
(M.S.)
Degree

HANDBOOK

2007 - 2008
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I. INTRODUCTION

Welcome to the Graduate Program in Environmental Science (GPES) which, along with the undergraduate Environmental Studies Program, and the Randolph G. Pack Environmental Institute, is managed by the Faculty of Environmental Studies. We are delighted that you have joined a unique set of graduate students, faculty, and researchers who share a deep concern for the development and application of multidisciplinary approaches to the stewardship of our natural and built environments.

The operation of GPES is moderately complex. This is a result of the diversity of student backgrounds, the participation of faculty from across the College and Syracuse University, and the curricula design which balances a Core, with Area-of- Study depth, and individualized synthesis.

Hierarchically, the State Education Department and S.U.N.Y. establish basic policy for all graduate programs. Within E.S.F. a comprehensive set of Graduate Policies have been adopted by the College Faculty. These are published in the College Catalog. The policies and the procedures which implement College policy are contained in "Graduate Academic Policies and Procedures - Faculty Handbook" (GAPP). These are available for review with your major professor. Internally GPES has evolved a number of specific policies, procedures, and guidelines for the effective delivery of the program.

This Handbook is intended as our primary guide to GPES for both students and faculty. In keeping with the policy orientation of our program it is appropriate and desirable for all participants to periodically both question why a certain requirement or procedure exists, and to offer constructive criticism through the Faculty's governance structure or informally via discussion. It is only through this dynamic exchange that GPES will continue to evolve and prosper.
II. REQUIREMENTS FOR THE M.S. DEGREE

The Catalog description provides the basic framework of graduation requirements. The College’s process for managing a masters degree is depicted in the schematic which follows. To facilitate detailed program planning and graduation documentation GPES uses a Plan Sheet. Each Major Professor is to keep an updated version in their advising file, and each student is encouraged to keep an updated personal copy. A completed Plan Sheet must be attached to the College’s Form 3B when submitted for approval by the Chair. Plan sheets are available in the Environmental Studies office. A copy of the Plan Sheet follows this description.

1. Prerequisites.
Deficiencies in undergraduate level Micro or Environmental Economics, Ecology, or Statistics are identified in the letter of admission. If not completed prior to matriculation these must be taken as co-requisites during the first two semesters of residence. Undergraduate or graduate courses may be taken to satisfy deficiencies. Undergraduate courses are not included in Grade Point Averages, and do not count toward satisfying the minimum number of required graduate credit hours. Graduate courses will be included in Grade Point Averages. Graduate level deficiency courses may not be used in a Plan Sheet for Core, or Area of Study requirements.

2. Advanced Standing.
A maximum of six graduate credit hours with a grade of B or above that have not been applied to another degree may be transferred via Petition. The Petition must include an attached syllabus, and a justification of how the courses are to be included on the student’s Plan Sheet.

Petitions regarding Core requirements may be submitted following matriculation. Petitions regarding Area of Study requirements are to be submitted following the formalization of the student’s steering committee.

3. Program Requirements.
The Master’s Degree is designed as a two-year experience. The minimum total credits for the degree is 36.
   a. Core: A total of nine (9) hours in applied social sciences is required. In addition, a total of six (6) hours is required in research methods. Course options which satisfy these requirements are designated by the area of study faculty.
   b. Area of Study: A minimum of fifteen (15) credit hours (excluding 898 and 899 courses) in the area of study, as determined by the major professor and area of study faculty. Area of Study subcommittees maintain advising lists of courses preapproved to satisfy the fifteen credit hour Area of Study requirements. The student’s Major Professor or Steering Committee may designate additional courses. These lists are reproduced in Appendix A.
   c. Thesis or Project: A minimum of six (6) credit hours of research resulting in a document that clearly demonstrates graduate level accomplishments of the student, followed by a defense examination. Students must have an approved Thesis Proposal. A form for approval is contained in Appendix B.

4. Concurrent Degree.
Concurrent degree students may "double-count" 8 cr. hrs. toward their M.S. degree.

5. Program Requirements.
A diagram showing program requirements and progress toward the degree follows. See also attached program Plan Sheet.
Schematic of M.S. Degree Requirements
NOTES

1. The Steering Committee "is composed of the major professor and at least two faculty members or other qualified persons." See the College Catalog 2007-2008.

2. The Steering Committee "should be appointed within the first semester". The Steering Committee" must be established and must have met by the end of the third semester of graduate study.

3. The Defense Committee "consists of members of the steering committee, and at least one additional faculty member" as Examiner. The Dean of Instruction and Graduate Studies appoints a committee Chair who is not from the student's degree program. See the College Catalog 2007-2008.

4. "Form 5B should be submitted to the Dean's office, according to academic year deadlines.

5. The student "must inform the Dean's office of the agreed upon date, time, and location for the defense at least two weeks in advance of the defense date." Form 5A.

6. One final copy must be delivered to each member of the Defense Committee, including the Chair, at least seven (7) days prior to the scheduled defense date Form 5A. The student should be aware that Syracuse University faculty serving on the committee may require the delivery of their copies at least fourteen (14) days prior to the defense.
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## PROGRAM ADMINISTRATION

**Student:**

**Semester Entered:**

**Degree:**
- Ph.D. ☐
- M.S. ☐
- M.P.S. ☐
- M.P.S. ☐

**Area of Study:**

**Address:**

**Phone:**

**Email:**

**Deficiencies:**

**Semester Remedied:**

**Administrative Requirements Completed:**

**3B Form**
- Yes Date:

**Thesis/Internship Proposal:**
- Yes Date:

**Title:**

**Steering Committee:**

1) ___________________________ Phone ___________________________
2) ___________________________ Phone ___________________________
3) ___________________________ Phone ___________________________
4) ___________________________ Phone ___________________________

**Examiners (M.S., Ph.D. only):**

1) ___________________________ Phone ___________________________
2) ___________________________ Phone ___________________________
3) ___________________________ Phone ___________________________
4) ___________________________ Phone ___________________________

**Defense/Exam Chair (M.S., Ph.D. only):**

____________________________ Phone ___________________________

**Capstone Seminar:**
- Yes Date: ___________ Time and Location: ______________________

**TA/RAs Held:**

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<tr>
<th>Semester</th>
<th>Course/Project</th>
<th>Supervisor</th>
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III. FACULTY GOVERNANCE

A. Environmental Studies

The Environmental Studies Faculty is organized with an Executive Committee, and two standing Committees: Undergraduate, and Graduate. The Graduate Committee includes the Program Director, instructors of record of the core courses, coordinators for each Area of Study, and a student representative. Its role is to monitor the program’s effectiveness, and to develop proposals for the consideration of the full Faculty. In 1994 the Faculty amended its bylaws to formally permit student membership. The text of this section III D is contained below.

"III.D. Student Representation to Faculty Meetings"

1. GPES Student representatives to the Faculty Meetings must be full-time students.

2. Representation to Faculty Meetings shall consist of two students: one GPES Ph.D. student and one GPES Masters student.

3. Student representatives will serve a one-year term and have the following responsibilities:
   a. Each representative is expected to attend all Faculty Meetings and must inform other representatives and the Faculty Chair if unable to do so.
   b. Each representative may vote on Faculty Meeting agenda items with one vote per student representative. Graduate student representatives will not vote on matters that are exclusively undergraduate.
   c. Each student representative is expected to serve as a liaison between the graduate student constituency and ES Faculty.

4. Selection of Student Representatives.
   a. A meeting will be announced early in the Fall semester by the Graduate Program Director. The purpose of this meeting is to inform graduate students of representatives' responsibilities and choose graduate student representatives.
   b. The list of Student Representatives to Faculty Meetings will be presented to the Faculty Chair no later than October 1.

B. Areas of Study

GPES' primary vehicle for engaging multidisciplinary subjects is the Area of Study. These represent the loci of faculty research and scholarship interests which have been formally approved by the Faculty. Minimum thresholds include three active faculty including a coordinator, and five graduate E.S.F. courses. Areas of Study are periodically revised to reflect evolving interests and resources. Areas of Study are structured as standing subcommittees, with a coordinator, and participating Major Professors. Subcommittees may have student members. A list of functions associated with Study Areas is given in Appendix C.

All students in GPES are admitted directly into an Area of Study. Students are strongly encouraged to network with their peers and to actively participate in their Area of Study.
IV. RESOURCES

Environmental Studies has limited staff, facility, and financial resources. Over the past few years we have developed management approaches for their effective and equitable utilization.

A. Environmental Studies Office Suite 106-107 Marshall Hall

The suite has three primary segments: Production Staff, Records and Communications, and the Chair’s Office. The Office maintains files (unofficial) of student records, folders of job and research announcements, course syllabi, and internship requests. It maintains a collection of GPES Thesis, Dissertations, Research Proposals, and Internship Reports which are available for reference.

Most students at some time during their studies encounter problems of a personal or academic nature for which they require assistance. An early full discussion of the situation and options is often the key to their resolution. Major Professors, the GPES Director, and the Faculty Chair are all available to facilitate this process. Office staff can assist in making appointments as necessary.

B. Conference Room 105 Marshall Hall

The Conference Room is the setting for Faculty Meetings and GPES seminars, including graduate students’ capstone seminars. The room may be scheduled for student meetings. During unscheduled periods it is available for informal graduate student discussions and study. Stored in the conference room are the Faculty’s Slide Projector, VCR, TV, Laptop Computers, and LCD Projectors which may be borrowed by graduate students for class presentations.

GPES Mailboxes - Outside 105 Marshall Hall

These are the primary mechanism for internal College and Faculty communications. Students should make it a practice to visit their box at least once a week. The mailboxes should not be used to receive U.S. Mail, and the GPES Office Staff cannot receive personal phone messages for students.

C. Office Space

It has been the general practice of the College that graduate students are provided with a desk space on an as-need basis. Because of limited facilities and the flux of students in residence, the assignment of such space usually takes a few weeks each fall. Students whose Major Professor's primary appointment is on another Faculty, should first ask for space available from that group. GPES has space for approximately 32 students available in B5 Marshall Hall, B7 Marshall Hall and 406B Bray Hall. The Office Staff maintains a list of requests and vacancies. Periodically, GPES arranges with other Faculties to use surplus space on a semester by semester basis.
D. Assistantships

There are two basic forms of assistantships, Graduate (GA), and Research (RA). GA’s are awarded by the College each year based on Faculty recommendations. They are primarily used for Teaching Assistantships in undergraduate and graduate courses. In 2006-2007 GPES had 17 semester positions for its approximately 75 graduate students. Each spring students who will be returning in the Fall are notified by the GPES Director of the projected GA allocation and requested to formally apply. Incoming admitted students are also included in the selection process. A faculty committee prioritizes the applications for administrative action.

As a graduate-research College ESF is involved in numerous externally funded projects most of which involve RA’s. Each project is managed by a Principal Investigator who has the responsibility of selecting staff. GPES has no direct involvement in this process. Students interested in RA’s should discuss opportunities with their Major. Throughout the year the Graduate Office and Research Office circulate research, fellowship, and internship announcements. Students should periodically check their mailboxes, the appropriate ES folders, and the ES bulletin board.

The Edna Bailey Sussman Fund provides stipends to support graduate student summer internship experiences. The Fund has supported approximately 20 ESF students per year, about one-quarter of whom have been GPES students. Sussman supports a broad range of interest areas, from environmental policy, regulation and communication to various environmental sciences. Sussman applications are treated competitively; awards are usually in the range of $4,800 for full-time internship employment. Applications must be filed by the annual application deadline, usually in early March. Awards are announced in early May. Proposal guidelines are available in February from the Office of Instruction and Graduate Studies located in 227 Bray.
APPENDIX A.1
MASTER of SCIENCE (M.S.) DEGREE
ENVIRONMENTAL COMMUNICATION AND PARTICIPATORY PROCESSES
STUDY AREA
Advising Guide

General Requirements. The minimum credit hours required for the MS degree are:

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<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>2 Environmental Science Seminars</td>
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<tr>
<td>Applied Social Science Methods</td>
<td>9</td>
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<tr>
<td>Area of Study</td>
<td>6</td>
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<tr>
<td>Thesis Research</td>
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<td>Total</td>
<td>36</td>
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Environmental Science Seminar. All students are required to take two (2) semesters of ENS 797 Environmental Science Seminar or, with Major Professor permission, appropriate seminars in other Faculties at the College or Syracuse University (the latter for credit only). ENS 797 is normally offered only as an Audit, but at times is offered for credit. If so, the student may take it for credit or Audit. ENS 797 taken for credit may be applied against the Applied Social Science requirement.

Applied Social Science. 9 credit hours should be selected from the following course list. In some cases, other appropriate courses may fulfill this requirement in the larger context of your program. These substitutions require approval by your Major Professor.

ANT 683 Social Movement Theory
ENS 550 Environmental Impact Analysis
FOR 564 Soil and Water Conservation Policy
FOR 665 Natural Resources and Environmental Policy
FOR 753 Advanced Natural Resource and Environmental Policy
GEO 558 Sustainable Development
IST 552 Information Systems Analysis Concepts and Practices
IST 607 Government and Information
IST 642 Electronic Commerce
IST 643 U. S. Federal Information Policy
LAW 716 Environmental Law
PPA 709 Public Organizations and Management
PPA 730 Problems in Public Administration
PPA 753 Executive Leadership and Policy
PSC 602 Public Policy Analysis: Theory and Practice
PSC 705 Science and Public Policy
SPC 514 Language and Meaning
SPC 535 Communication and Community
SPC 546 Seminar Legal Communication
**Research Methods.** 6 credits hours, usually selected from the following courses. Consider your thesis research needs in consultation with your Major Professor when choosing these or other appropriate method courses:

- EST 604 Social Survey Research Methods for Environmental Issues
- EST 605 Qualitative Methods
- PPA 722 Quantitative Analysis
- SOC 614 Introduction to Qualitative Research
- SPC 655 Speech Criticism

**Area of Study.** 15 credit hours. Area of Study course work is chosen in consultation with your Major Professor and Steering Committee. At least 6 credit hours of EST coursework must be completed from the list of courses provided below, excluding any independent studies courses (ENS 798). The other six credits may be selected from the courses listed below or from other appropriate courses that become available.

- CMN/ENS 696 Mass Media and Environmental Affairs
- EST 608 Environmental Advocacy Campaigns and Conflict Resolution
- EST 612 Environmental Policy and Governance
- EST 626 Concepts and Principles of Sustainable Development
- EST 635 Public Participation and Decision Making
- EST 640 Environmental Thought and Ethics
- EST 650 Environmental Perception and Human Behavior
- EST 673 Environmental Information Policy
- FOR 690 Seminar and Workshop on Natural Resources Policy & Management
- EFB 521 Principles of Interpretive Programming
- EFB 617 Perspectives on Interpretive Design
- MIS 545 Decision Support Systems
- MIS 745 Decision Support Systems
- MAR 741 Marketing Community and Public Service Agencies
- SHR 703 Interpersonal and Group Skills for Managers
- ANT/LILN/SOC 570 Topics in Sociolinguistics
- ANT 652 Cultural Aspects of Public Policy
- ANT/WSP Culture and Folklore
- ANT 675 Culture and Disputing
- SOS 620 Interpersonal Conflict Resolution Skills
- SOS 621 Mediation: Theory and Practice
- SOS 622 Negotiation: Theory and Practice
- SOS 623 Leadership: Theory and Practice
- SOS 624 Conflict Resolution in Groups

**Thesis.** 6 credits, completed as ENS 899 Thesis Research. These credits reflect progress made in thesis research. They can be used to support the development of your thesis proposal (e.g., literature review, directed readings) as well as the actual research and writing of the thesis. These credits are awarded in consultation with your Major Professor.
Other Requirements. In addition to course and credit hour requirements, students are required to:

1. Form a Steering Committee of the Major Professor and two additional faculty members by the end of the second semester of full-time study. Form 2A is available in Marshall 107.

2. File a Form 3B (Academic Plan), attaching a program Plan Sheet, with the Office of Instruction and Graduate Studies (227 Bray) by the end of the second semester of full-time study. Form 3B is available in Marshall 107.

3. Offer a Capstone Seminar, reporting either on planned or completed Thesis activity.

4. Successfully complete written comprehensive exam.

5. Successfully complete Thesis defense.
APPENDIX A.2
MASTER OF SCIENCE (M.S.) DEGREE
ENVIRONMENTAL POLICY AND DEMOCRATIC PROCESSES
STUDY AREA

Advising Guide

General Requirements. The minimum credit hours required for the degree are:

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<td><strong>Total</strong></td>
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Environmental Science Seminar. All students are required to take two (2) semesters of ENS 797 Environmental Science Seminar or, with Major Professor permission, appropriate seminars in other Faculties at the College or Syracuse University (the latter for credit only). ENS 797 is normally completed as an Audit, but at times may be taken for credit if offered. Credit hours when awarded may be applied against the Applied Social Science requirement.

Applied Social Science. 9 credit hours, selected from the following course list:

- EST 608 Environmental Advocacy Campaigns and Conflict Resolution
- EST 612 Environmental Policy and Governance
- EST 626 Concepts and Principles of Sustainable Development
- EST 635 Public Participation and Decision Making
- EST 640 Environmental Thought and Ethics
- EST 650 Environmental Perception and Human Behavior

Research Methods. 6 credits hours, usually selected from the following:

- EST 604 Social Survey Research Methods for Environmental Issues
- APM 635 Multivariate Statistical Methods
- APM 625 Intro to Sampling Techniques
- PPA 722 Quantitative Analysis
- SOC 614 Introduction to Qualitative Research

Area of Study. 15 credit hours. Area of Study course work beyond the Core and Research Methods requirements is chosen in consultation with the Major Professor and Steering Committee. Generally, this coursework is seen as an extension of coursework begun in the Core, and will be taken from the list of courses below, although other courses at times may be selected. At least 6 credit hours of ENS coursework must be completed from the list of courses provided below, excluding any independent studies courses (ENS 798).
EST 550 Environmental Impact Analysis
EST 608 Environmental Advocacy Campaigns and Conflict Resolution
EST 612 Environmental Policy and Governance
EST 626 Concepts and Principles of Sustainable Development
EST 635 Public Participation and Decision Making
EST 640 Environmental Thought and Ethics
EST 650 Environmental Perception and Human Behavior
EST 673 Environmental Information Policy
FOR 564 Soil and Water Conservation Policy
FOR 665 Natural Resources and Environmental Policy
FOR 753 Advanced Natural Resource and Environmental Policy
GEO 558 Sustainable Development
GEO 593 Environmental Monitoring and Assessment
GEO 720 Seminar on Latin America
IST 552 Information Systems Analysis Concepts and Practices
IST 607 Government and Information
IST 642 Electronic Commerce
IST 643 U. S. Federal Information Policy
LAW 716 Environmental Law
PPA 709 Organizational Theory
PPA 730 Public Organization and Management
PSC 602 Public Policy Analysis Theory and Practice
PSC 705 Science and Public Policy

**Thesis or Project.** 6 credits, completed as ENS 899 Thesis Research. A thesis or project proposal is required, and the thesis or project in final form must conform with College and faculty requirements; see program Handbook.

**Other Requirements.** In addition to course and credit hour requirements, students are required to:

1. Form a Steering Committee of the Major Professor and two additional faculty members by the end of the second semester of full-time study.

2. File a Form 3B (Academic Plan), attaching a program Plan Sheet, with the Office of Instruction and Graduate Studies (227 Bray) by the end of the second semester of full-time study.

3. Complete two semesters of ENS 797 Environmental Policy Seminar, either as an Audit or, at the student's option, for academic credit.

4. Offer a Capstone Seminar on the thesis or project, reporting either on planned or completed activity.

5. Successfully complete a Thesis or Project Defense Examination.
APPENDIX A.3
MASTER OF SCIENCE (M.S.) DEGREE
ENVIRONMENTAL AND COMMUNITY LAND PLANNING
STUDY AREA

Advising Guide

**General Requirements.** The minimum credit hours required for the degree are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Science Seminar</td>
<td>0</td>
</tr>
<tr>
<td>Applied Social Science</td>
<td>9</td>
</tr>
<tr>
<td>Research Methods</td>
<td>6</td>
</tr>
<tr>
<td>Area of Study</td>
<td>15</td>
</tr>
<tr>
<td>Thesis Research</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

**Environmental Science Seminar.** All students are required to take two (2) semesters of ENS 797 Environmental Science Seminar or, with Major Professor permission, appropriate seminars in other Faculties at the College or Syracuse University (the latter for credit only). ENS 797 is normally completed as an Audit, but at times may be taken for credit if offered. Credit hours when awarded may be applied against the Applied Social Science requirement.

**Applied Social Science.** 9 credit hours including at least 6 in ENS course work, selected from the following list:

- EST 608 Environmental Advocacy Campaigns and Conflict Resolution
- EST 612 Environmental Policy and Governance
- EST 626 Concepts and Principles of Sustainable Development
- EST 635 Public Participation and Decision Making
- EST 640 Environmental Thought and Ethics
- EST 650 Environmental Perception and Human Behavior
- LSA 621 Community Design and Planning Studio
- LSA 651 Comprehensive Land Planning
- LSA 652 Community Development and Planning Processes

**Research Methods.** 6 credits hours, usually selected from the following:

- EST 604 Social Survey Research Methods for Environmental Issues
- EST 605 Qualitative Methods
- LSA 640 Research Methodology
- APM 635 Multivariate Statistical Methods
- PPA 722 Quantitative Aids for Policy Analysis
- PSC 602 Public Policy Analysis

-15-
Study Area Coursework. 15 credit hours. Area of Study coursework beyond the Core and Research Methods requirements is chosen in consultation with the Major Professor and Steering Committee. Generally, this coursework is seen as an extension of coursework begun in the Core, and will be taken from the list of courses below (or from those listed above that are not used to satisfy requirements), although other courses at times may be selected. At least 6 credit hours of EST/LSA coursework beyond that taken in the Core must be completed from the list of courses provided below, excluding any independent studies courses (EST/LSA 798).

LSA 611 Natural Factors Analysis
LSA 621 Community Design and Planning
LSA 650 Behavioral Factors of Community Design
LSA 651 Comprehensive Land Planning
LSA 654 Ecology in Landscape Design and Planning
LSA 680 Seminar in Urban Design
LSA 681 Cultural Landscape Preservation
LSA 696 Community Planning Workshop
EFB 519 Geographic Modeling
EST 550 Environmental Impact Analysis
EST 626 Concepts and Principles of Sustainable Development
EST 673 Environmental Information Policy
ERE 550 Introduction to GIS
ERE 552 Fundamentals of Remote Sensing
ERE 556 Global Positioning Systems I
FOR 540 Watershed Hydrology
FOR 542 Watershed Management
FOR 556 Spatial Modeling
FOR 557 Practical Vector GIS
FOR 558 Advanced Vector GIS
FOR 564 Soil and Water Conservation Policy
FOR 641 Watershed Hydrology and Water Quality
FOR 665 Natural Resources and Environmental Policy
FOR 670 Resource Economics
FOR 671 Economics of Nonmarket Goods
FOR 674 Commercial Recreation
FOR 676 Tourism Planning
FOR 678 Wilderness/River Recreation Management
FOR 679 Outdoor Recreation Management
FOR 680 Urban Forestry
FOR 753 Advanced Natural Resource and Environmental Policy
FOR 796 Special Topics: Park Planning
GEO 558 Sustainable Development
GEO 605 Theories of Development
GEO 781 Seminar, Cartography, Environmental Risk
GEO 782 Seminar Geographic Information Analysis
CIE 541 Transportation
IST 552 Information Systems Analysis Concepts and Practices

Thesis or Project. 6 credits, completed as ENS 899 Thesis Research. A thesis or project proposal is required, and the thesis or project in final form must conform with College and Faculty requirements; see program Handbook.
Other Requirements. In addition to course and credit hour requirements, students are required to:

1. Form a Steering Committee of the Major Professor and two additional faculty members by the end of the second semester of full-time study. Students initiate this action in consultation with the Major Professor who files a request to form the committee.

2. File a Form 3B (Academic Plan), attaching a program Plan Sheet, with the Office of Instruction and Graduate Studies (227 Bray) by the end of the second semester of full-time study.

3. Offer a Capstone Seminar on the thesis or project, reporting either on planned or completed activity.

4. Successfully complete a Thesis or Project Defense Examination.
APPENDIX A.4
MASTER OF SCIENCE (M.S.) DEGREE
ENVIRONMENTAL SYSTEMS AND RISK MANAGEMENT
STUDY AREA

Advising Guide

General Requirements. The minimum credit hours required for the degree are:

<table>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

Environmental Science Seminar. All students are required to take two (2) semesters of ENS 797 Environmental Science Seminar or, with Major Professor permission, appropriate seminars in other Faculties at the College or Syracuse University (the latter for credit only). ENS 797 is normally completed as an Audit, but at times may be taken for credit if offered. Credit hours when awarded may be applied against the Applied Social Science requirement.

Applied Social Science. 9 credit hours, selected from the following course list:

- EST 608 Environmental Advocacy Campaigns and Conflict Resolution
- EST 612 Environmental Policy and Governance
- EST 626 Concepts and Principles of Sustainable Development
- EST 635 Public Participation and Decision Making
- EST 640 Environmental Thought and Ethics
- EST 650 Environmental Perception and Human Behavior

Research Methods. 6 credits hours, usually selected from the following:

- EST 604 Social Survey Research Methods for Environmental Issues
- EST 605 Qualitative Methods
- APM 620 Analysis of Variance
- APM 625 Introduction to Sampling
- APM 635 Multivariate Statistical Methods
- GEO 686 Spatial Statistics
Area of Study. 15 credit hours. Study Area coursework beyond the Core and Research Methods requirements is identified by Study Area faculty and chosen in consultation with the Major Professor and Steering Committee. Frequently recommended courses are:

- CEN 573 Principles and Design in Air Pollution Control
- CIE 529 Risk Analysis in Civil Engineering
- CIE 554 Principles of Environmental Toxicology
- CIE 653 Applied Aquatic Chemistry
- CIE 671 Environmental Chemistry and Analysis
- EFB 518 Systems Ecology
- EFB 610 Ecological Biogeochemistry
- EFB 611 Environmental Toxicology
- ERE 506 Hazardous Waste Management
- ERE 550 Introduction to GIS
- ERE 642 Water Quality Modeling
- ERE 643 Water Pollution Engineering
- FCH 510 Environmental Chemistry I
- FCH 511 Environmental Chemistry II
- FCH 515 Methods of Environmental Chemistry Analysis
- FOR 557 Practical Vector GIS
- FOR 556 Spatial Modeling
- FOR 796 Special Topics: Forest Resource Management

Thesis or Project. 6 credits, completed as ENS 899 Thesis Research. A thesis or project proposal is required, and the thesis or project in final form must conform with College and Faculty requirements; see program Handbook.

Other Requirements. In addition to course and credit hour requirements, students are required to:

1. Form a Steering Committee of the Major Professor and two additional faculty members by the end of the second semester of full-time study. Students initiate this action in consultation with the Major Professor who files a request to form the committee.

2. File a Form 3B (Academic Plan), attaching a program Plan Sheet, with the Office of Instruction and Graduate Studies (227 Bray) by the end of the second semester of full-time study.

3. Offer a Capstone Seminar on the thesis or project, reporting either on planned or completed activity.

4. Successfully complete a Thesis or Project Defense Examination.
APPENDIX A.5
MASTER OF SCIENCE (M.S.) DEGREE
WATER AND WETLAND RESOURCES
STUDY AREA

Advising Guide

**General Requirements.** The minimum credit hours required for the degree are:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Environmental Science Seminar</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

* A minimum of 6 credits in ENS course work is required.

**Special Note on Academic Background.** Students must have appropriate background in chemistry, biology, physics, earth science and computer programming and application. All students should have at least one course in physical water science (e.g., hydrology, hydrogeology, geology, aquatic chemistry, aquatic biology) as well as demonstrated competence in at least one of these aquatic science areas (experience, undergraduate and/or graduate course work). Recommended courses include: (i) Physical Water Science: CIE453, FOR540, FEG340, FOR641, GOL544, and GOL542; (ii) Aquatic Chemistry and Toxicology: CIE551, FCH515, FCH496, GOL652, FCH510, and EFB560; (iii) Aquatic Biology: EFB524 and EFB525; and (iv) Wetlands Science: EFB518, EFB542, EFB691, and ENS625.

**Environmental Science Seminar.** All students are required to take two (2) semesters of ENS 797 Environmental Science Seminar or, with Major Professor permission, appropriate seminars in other Faculties at the College or Syracuse University (the latter for credit only). ENS 797 is normally completed as an Audit, but at times may be taken for credit if offered. Credit hours when awarded may be applied against the Applied Social Science requirement.

**Applied Social Science.** 9 credit hours. Study Area faculty may indicate which if any courses listed below are particularly recommended, and courses not listed here may be substituted with agreement of Study Area faculty.

- ENS 601 • Water Resources Management
- EST 550 Environmental Impact Analysis
- EST 608 Environmental Advocacy Campaigns and Conflict Resolution
- EST 612 Environmental Policy and Governance
- EST 625 • Wetlands Policy
- EST 626 Concepts and Principles of Sustainable Development
- EST 635 Public Participation and Environmental Decision Making
- EST 640 Environmental Thought and Ethics
- EST 650 Environmental Perception and Human Behavior
- FOR 687 Environmental Law and Policy
- FOR 564* Soil and Water Conservation Policy
- FOR 665 Natural Resources and Environmental Policy
- FOR 753 Advanced Natural Resource and Environmental Policy
- LAW 716 Environmental Law
- PPA 709 Public Organizations and Management
- PPA 730 Problems in Public Administration
PSC 705 Science and Public Policy
IST 552 Information Systems Analysis
IST 607 Government and Information
IST 642 Electronic Commerce
IST 643 U.S. Federal Information Policy

* Indicates water resources policy courses.

**Research Methods.** 6 credits hours, usually selected from the following:

- APM 510 Statistical Analysis
- APM 620 Analysis of Variance
- APM 625 Introduction to Sampling Techniques
- APM 635 Multivariate Statistical Methods
- APM 653 Simulation Design and Analysis
- EST 604 Social Survey Research Methods for Environmental Issues
- EST 605 Qualitative Methods
- ERE 550 Introduction to GIS
- ERE 552 Fundamentals of Remote Sensing
- ERE 563 Photogrammetry I
- ERE 642 Water Quality Modeling
- GEO 583 Environmental GIS
- GEO 587 Multivariate Statistical Applications in Geography
- GEO 593 Environmental Monitoring
- GEO 686 Spatial Statistics
- LSA 640 Research Methodology
- PPA 722 Quantitative Analysis
- PSC 602 Public Policy Analysis Theory and Practices
- SOC 614 Introduction to Quantitative Research

**Area of Study.** 15 credit hours. Study Area coursework beyond the Core and Research Methods requirements is identified by Study Area faculty and chosen in consultation with the Major Professor and Steering Committee. Frequently recommended courses are:

- CIE 570 Water and Wastewater Treatment Design
- CIE 652 Biological Waste Treatment
- CIE 653 Applied Aquatic Chemistry
- CIE 659 Advanced Hydrogeology
- CIE 671 Environmental Chemistry and Analysis
- EFB 516 Ecosystems
- EFB 518 Systems Ecology
- EFB 522 Ecology, Resources, and Development
- EFB 524 Limnology
- EFB 525 Limnology Lab
- EFB 542 Freshwater Wetland Ecosystems
- EFB 611 Environmental Toxicology
- ENS 607 Wetland Practicum
- EST 625 Wetlands Policy
- EST 626 Concepts and Principles of Sustainable Development
- EST 696 Special Topics: Great Lakes Policy
- ERE 505 Solid Waste Management
- ERE 552 Fundamentals of Remote Sensing
- ERE 642 Water Quality Modeling
ERE 643 Water Pollution Control Engineering
FEG 340 Engineering Hydrology and Hydraulics
FCH 515 Methods of Environmental Chemistry Analysis
FCH 496 Special Problems: (In) Chemistry
FOR 542 Watershed Management
FOR 556 Spatial Modeling
FOR 557 Practical Vector GIS
FOR 558 Advanced Vector GIS
FOR 643 Forest Hydrology
FOR 564 Soil and Water Conservation Policy
GOL 541 Hydrogeology
GOL 542 Geomorphology
GOL 642 Advanced Hydrogeology
GOL 652 Hydrogeochemistry

**Thesis or Project.** 6 credits, completed as ENS 899 Thesis Research. A thesis or project proposal is required, and the thesis or project in final form must conform with College and Faculty requirements; see program Handbook.

**Other Requirements.** In addition to course and credit hour requirements, students are required to:

1. Form a Steering Committee of the Major Professor and two additional faculty members by the end of the second semester of full-time study.

2. File a Form 3B (Academic Plan), attaching a program Plan Sheet, with the Office of Instruction and Graduate Studies (227 Bray) by the end of the second semester of full-time study. Students initiate this action in consultation with the Major Professor who files a request to form the committee.

3. Offer a Capstone Seminar on the thesis or project, reporting either on planned or completed activity.

4. Successfully complete a Thesis or Project Defense Examination.
APPENDIX B.1
MS THESIS PROPOSAL APPROVAL FORM

Approval of Proposals

Students are required to prepare a Thesis or Project Proposal. This proposal must be formally
approved by the student’s Major Professor and Steering Committee using this form (below) for
signatures with a copy of the proposal attached.

Although progress in developing a proposal may vary from student to student, students are
normally required to produce an approved proposal before registering for more than 3 credits
of ENS 899 Thesis Research.

Content of Proposals

Proposals will vary in content according to the nature of the planned research. In general, these
should be succinct statements of research plans, normally about 10 pages in length, describing
the planned work as follows:

1. Tentative title.
2. Research objective or hypothesis.
4. Key data or information sources.
5. Method of analysis.
6. Expected results.
7. Timetable for research, writing, and defense examination.
8. Brief bibliography.

PROPOSAL APPROVAL

Student Name: ________________________________________________________________

Thesis/Project Title: _____________________________________________________________

Approved:

Major Professor ___________________________ Date _____________________________
Committee Member ___________________________ Date _____________________________
Committee Member ___________________________ Date _____________________________

A copy of the approved proposal should be affixed to this form, and copies of this document with
attached proposal should be provided to each of the above signers, and to the Environmental Studies
Office, 107 Marshall Hall.

7/2007
APPENDIX B.2.
INSTRUCTIONS FOR THE PREPARATION OF THESES/PROJECTS

The following guidelines are provided for Master's students preparing a thesis, or reports to meet Program Alternative 1 or 2, and for all doctoral students in completion of their dissertations:

1. The general style manual for the College is *A Manual of Style for Authors, Editors and Copywriters* commonly referred to as the "Chicago manual of style". A Faculty may opt to use a style manual which is more discipline oriented, and in doing so, accepts the responsibility of communicating this preference along with other special requirements to the graduate students concerned. Likewise, it is the student's responsibility to be aware of the style manual and any special requirements of his/her faculty. In any case, the manual to be used should be indicated as part of the proposal, i.e., the student in consultation with the Faculty and/or major professor should identify in the proposal which style manual will be followed in preparation of the thesis, project, or report.

2. The College shall participate in the Dissertation Information Service (DIS) provided by University Microfilms International, Ann Arbor, Michigan. All Master's theses and all doctoral theses will be submitted for inclusion in this database. This database is a computerized index containing bibliographic citations to nearly one million doctoral and Master's theses dating back to 1861. This is a very valuable resource because it makes available through a variety of products the results of a student's work. The cost of this service is paid for by each student.

More detailed information on DIS is available in the Office of the Dean on Instruction and Graduate Studies.

3. To ensure the uniform physical quality of theses, and projects all will conform to the guidance provided in *Preparation of Archival Copies of Theses and Dissertations*, American Library Association, copies of which are available for review in Moon Library and the Office of the Dean of Instruction and Graduate Studies.

4. Abstracts are required for all Doctoral and Masters theses and projects and will contain key words which will be listed at the end of the abstract. The abstracts will be bound with the thesis, or project and will not exceed 150 words for a Master's thesis or project, or 350 words for a doctoral thesis.
5. Generally, theses and project reports should adhere to the following organization:

**Thesis/Project Format:**

- Title Page
- Acknowledgments
- Table of Contents
- List of Tables
- List of Figures
- Abstract with Key Words
- Introduction
- Literature Review
- Methods and Materials
- Results
- Discussion
- Conclusions
- Appendices
- Vita

Alternatives to this organization may be authorized by the Steering Committee within any guidelines which may be developed by the individual Faculty.

6. Manuscript theses and reports will be acceptable as determined by individual Faculties. The student's selection of this format must be in keep with guidelines established by participating Faculty and have the prior approval of the student's major professor and steering committee.

The student is considered the senior author of any manuscript theses and as such only his/her name shall appear on the title page. Other authors shall be cited under the Acknowledgment section, but not on each manuscript. The abstract should be inclusive of all manuscripts included in the document. Likewise, the Conclusions section should be a synthesis of all inclusive manuscripts.

7. Non-print thesis or project formats will be handled on an individual basis and the student selecting such a format, along with the supervising major professor and/or steering committee, should consult with the Library Faculty early in the planning process. In any event, the Library will need two copies of the final product.

8. The Library will receive the original signed thesis or project and one copy. The original will be the archival copy and will not circulate. The copy will be available for circulation.

**References**


FORMAT FOR VITA

NAME:
DATE AND PLACE OF BIRTH:
EDUCATION:

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<th>NAME AND LOCATION</th>
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<th>DEGREE</th>
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HIGH SCHOOL:

COLLEGE:

EMPLOYMENT:

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<th>DATES</th>
<th>POSITION</th>
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</table>

7/2007
APPENDIX C
FUNCTIONS OF STUDY AREAS

The area-of-study (AOS) is configured as the critical lynchpin between the program as a whole, and the major professor. The intent is that the AOS will become a time-efficient vehicle for conducting the business of academe, and provide informal arenas for faculty-faculty, faculty-student, and student-student interchange.

Listed below are some of the functions and opportunities for AOS’s:

COMPOSITION

• Recommend to the Chair colleagues for addition to the AOS’ major professor roster.
• Ditto (annually) for Adjunct Faculty.

STUDENT BODY

• Counsel prospective applicants.
• Make admission decisions.
• Include a student representative on the subcommittee.
• Once each semester hold an open session with all students invited.

CURRICULA

• Write catalog description of AOS.
• Maintain advising lists of courses which satisfy program objectives.

RESOURCES

• Make recommendations regarding space, facilities, library resources, and computing.
APPENDIX D
ENVIRONMENTAL STUDIES FACULTY AND STAFF
106 Marshall Hall
315-470-6636

Staff:

PATRICIA A. GIBEAULT (Pat)
107 Marshall Hall, 470-6528
Secretary for Graduate Program/Receptionist

PATRICIA L. KIELECKI (Patty)
106 Marshall Hall, 470-6636
Secretary for Chair/Undergraduate Program

Faculty:

RICHARD C. SMARDON
(Wetland Assessment, Public Participation, Decision Making).
106 Marshall Hall, 470-6576

JANINE M. DEBAISE (Ecofeminism, Creative Writing).
105 Moon Library, 470-4776

JOHN P. FELLEMAN (Environmental Decision Making, Information Policy).
108B Marshall Hall, 470-6550

303 Illick Hall, 470-4741

PATRICK J. LAWLER (Environmental Communication).
13C Moon Library, 470-6914

JACK P. MANNO (Sustainable Development, Ecological Economics, Great Lakes Policy).
24 Bray Hall, 470-6720

MARK S. MEISNER (Environmental Discourse and Communication).
112 Marshall Hall, 470-6908

SHARON D. MORAN (Environmental Policy, Government and Water Resources).
113 Marshall Hall, 470-6990

BRENDA J. NORDENSTAM (Risk Perception and Analysis).
108A Marshall Hall, 470-6573

SUSAN L. SENECAH (Environmental Communication and Policy).
109 Marshall Hall, 470-6570

BENETTE A. WHITMORE (Composition-Technical Writing and Communication).
105 Moon Library, 470-6722

-28-
Participating Faculty:

EMANUEL J. CARTER
312 Marshall Hall, 470-6665
(City Planning, Urban Design, Rural Development, Design History and Theory).

ELEN M. DEMING
310 Marshall Hall, 470-6556
(Landscape History and Design).

CHERYL S. DOBLE
322 Marshall, 470-6553
(Community Design and Planning; Public Participation in Decision Making Process; Rural Planning and Land Use Management).

THEODORE A. ENDRENY
207 Marshall Hall, 470-6565
(Watershed Modeling).

CHARLES A. HALL
354 Illick Hall, 470-6812
(Systems Ecology).

RICHARD S. HAWKS
331 Marshall Hall, 470-6541
(Community Design and Planning; Natural Resource Information in the Land Use Design Process).

DAVID L. JOHNSON
419 Jahn Lab, 470-6829
(Particle Analysis, Analytical Methods, Heavy Metals).

CHARLES N. KROLL
309 Bray Hall, 470-6825
(Decision Analysis).

DIANE M. KUEHN
211A Marshall Hall, 470-6561
(Recreation Management and Research).

LAURA K. LAUTZ
206 Bray Hall, 470-4765
(Hydrology and Watershed Management).

KARIN E. LIMBURG
249 Illick Hall, 470-6741
(Limnology, Watershed Ecology).

VALERIE A. LUZADIS
307 Bray Hall, 470-6693
(Natural Resource Economics).
MYRON J. MITCHELL  
210 Illick Hall, 470-6765  
(Biogeochemistry of Forest and Aquatic Ecosystems; Decomposition Processes; Stable Isotopes).

TSUTOMU NAKATSUGAWA  
110 Illick Hall, 470-6767  
(Toxicology, Insect and Vertebrate Toxicology, Microbiology).

RUDOLPH M. SCHUSTER  
210 Marshall Hall, 470-4863  
(Ecological and Recreational Planning).

S. SCOTT SHANNON  
323 Marshall Hall, 470-6537  
(Community Design and Planning; Rural, Traditional, and Neo-Traditional Community Form; Historic Landscape Preservation; Computer Applications and Design Simulation).

JOHN STELLA  
206 Marshall Hall, 470-4902  
(Watershed Science and Management, Stream Ecology).

JOHN E. WAGNER  
304 Bray Hall, 470-6971  
Adjunct Faculty:

JERROLD ABRAHAM
SUNY Health Science Center, Director of Environmental and Occupational Pathology, 750 East Adams Street, Syracuse NY 13210 (Public Health).

STEVE BRECHIN
Syracuse University, Maxwell School of Public Policy, Anthropology, Room 209 Maxwell Hall, Syracuse, NY 13210, 443-2200 (Natural Resources Sociology).

DAVID DRIESEN
Syracuse University, Law College, 446 College of Law, Syracuse, NY 13210, 443-4218 (Environmental Law).

PATRICK DURKIN
5100 Highbridge Street, Apt 30A, Fayetteville, NY 13066, 637-9560 (Chemical Risk Assessment and Documentation).

STEVEN EFFLER
110 Hillsboro Parkway, Syracuse, NY 13214, 466-1309 (Water Quality Modeling).

MARLA EMERY
U.S. Forest Service, S. Burlington, VT, (Non-Commodity Forestry, Traditional Environmental Knowledge).

JOHN FERRANTE
Department of Environmental Conservation, Division of Water, 615 Erie Boulevard West, Syracuse, NY 13204, 426-7507 (Watershed Ecology).

RICHARD GOLDSMITH
Syracuse University, Law College, 446 College of Law, Syracuse, NY 13210, 443-2533 (Environmental Law).

MARLA JABBOUR
SUNY/ESF, Assistant Dean, Instruction and Graduate Studies, Director of Honors Program, 227 Bray Hall, Syracuse, NY 13210, 470-6595 (Environmental History).

JOHN KUSLER

DAVID NOWAK
SUNY/ESF, USDA Forest Service, 5 Moon Library, Syracuse, NY, 13210, 448-3212 (Research Forester).

SAMUEL SAGE
Atlantic States Legal Foundation, 658 W. Onondaga Street, Syracuse, NY 13204, 475-1170 (Community Building).

LISA WARHECKE
256 Greenwood Place, Syracuse, NY, 13210, 428-6024 (Geographic Information Systems and Public Administration).