

# WEC Graduate Student Handbook

## Masters (MS) Non-thesis Degrees

*November 2021 Edition*



**UF/IFAS Department of Wildlife Ecology and Conservation**



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**UF Maples Center for Forensic Medicine Website: <https://maples-center.ufl.edu/>**

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# The Department of Wildlife Ecology and Conservation

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## General Information

### Welcome!

Our students will find outstanding educational opportunities at the [University of Florida](#). This WEC Graduate Handbook is intended to assist you with the successful planning and completion of your graduate program in the [Department of Wildlife Ecology and Conservation](#).

**Dept. Mission:** The mission of the [Department of Wildlife Ecology and Conservation](#) is to foster education, expand knowledge, and reward scholarship, using multi-disciplinary approaches, for the purpose of understanding, managing, and conserving biological resources. The primary goal of our teaching, research, and extension programs is to develop and communicate the knowledge necessary for enhancing the conservation and management of wildlife and their habitats for the greatest aesthetic, ecological, economic, and recreational values

**Facilities:** Our main Departmental offices are located in Newins-Ziegler Hall near the center of the main campus of the University of Florida. See [UF Campus Map](#). Newins-Ziegler Hall (NZH) contains classrooms, teaching and research laboratories, graduate carrels, and administrative and faculty offices. A Windows-based PC network including a fully-equipped Quantitative/GIS Laboratory (318 NZH) and other analytical facilities for instruction, research, and extension are maintained within the building for use by students, staff, and faculty.

Closely affiliated with the Department is the [Florida Cooperative Fish and Wildlife Research Unit](#), a unit of the United States Geological Survey, whose principal mission focuses on graduate training in wetlands ecology and restoration. Also housed within the Department is the [Program for Studies in Tropical Conservation](#), an interdisciplinary program that develops human resources and strengthens institutions in tropical countries through integrated research and training. The nearby 10,000 acre [Ordway-Swisher Biological Station](#), which is characterized by longleaf pine/turkey oak sandhills and freshwater lakes and marshes, provides both an outdoor laboratory

for teaching and a study site for long-term field research. Several units complement the teaching and research programs of the Department: the [Florida Museum of Natural History](#); [The McGuire Center for Lepidoptera and Biodiversity](#); the [Natural Area Teaching Laboratory](#); The Nature Conservancy; the Centers for African Studies, Latin American Studies, Wetlands, Biological Conservation, and Natural Resources; Biotechnologies for Ecological, Evolutionary, and Conservation Sciences; the Wildlife Research Laboratory of the Florida Fish and Wildlife Conservation Commission; Florida Integrated Science Center of the US Geological Survey; U.S. Department of Agriculture; and APHIS.

### **Organization of Academic Units**

The UF Department of Wildlife Ecology and Conservation ([WEC](#)) is part of the College of Agricultural and Life Sciences ([CALS](#)), which is in the Institute of Food and Agricultural Sciences ([IFAS](#)). IFAS also includes the [College of Veterinary Medicine](#), the [Agricultural Experiment Station](#), the [Cooperative Extension Service](#), the School of Forest Resources and Conservation ([SFRC](#)), and the School of Natural Resources and the Environment ([SNRE](#)).

In all, [IFAS](#) consists of about 20 different academic departments that have faculty members and staff located both on the main UF campus in Gainesville, FL and in Research and Education Centers ([RECs](#)) throughout the state. IFAS is administered by the UF Senior Vice President for Agriculture and Natural Resources and three Deans (Extension, Academic Programs, and Research). IFAS is part of UF along with 14 other colleges and numerous academic units.

The [UF Graduate School](#) is responsible for; 1) the enforcement of minimum standards of graduate work and 2) overall coordination of graduate programs at the University. As an umbrella organization, the UF Graduate School cuts across academic units (such as colleges, schools and departments) and is managed by an Associate Vice President and Dean, three Associate Deans, the Graduate Council, and UF graduate faculty from all academic units.

***WEC graduate students must satisfy both the UF Graduate School and WEC departmental requirements in order to obtain a University of Florida graduate degree.***

Whereas the UF Graduate School sets minimum requirements and provides overall coordination, the responsibilities for setting detailed degree requirements and managing operations of WEC graduate programs are vested with the [WEC departmental faculty](#).

### **Sources of Information and Assistance**

At UF, numerous sources of academic and logistical information are available to students.

Academically, you should work closely with your Graduate Advisor. In addition, the WEC Graduate Coordinator and Department Chair are always willing to discuss any facet of the WEC graduate program with our students. The WEC Student Services Office (102 NZH) is also a valuable source of information, and students are encouraged to contact this office with questions regarding the academic regulations of the UF Graduate School, CALS and WEC.

Essential information pertaining to UF Graduate School minimum requirements is found in the [UF Graduate Catalog](#), on the [Graduate School's website](#), in their [Graduate Student Handbook](#), and on their Graduate Information Management System ([GIMS](#)) where WEC students may view their UF Graduate School records, such as their degree program, Supervisory Committee, exam dates, admission to candidacy, thesis or dissertation clearance, etc.

Be sure to review thoroughly the [UF Graduate Catalog](#) in order to understand the UF Graduate School's policies and procedures, and visit [UF Office of Research](#). The UF Graduate School, located in Grinter Hall, publishes [Critical Dates and Deadlines](#) each semester; as well as its own



[Graduate Student Handbook](#). You will want to consult the [UF Graduate School](#) website periodically as specific questions arise.

Essential information pertaining to WEC graduate program requirements is found on the [WEC website](#), in our [WEC Graduate Student Handbook – Masters \(MS\) Non-thesis Degree](#), and in consultation with your Graduate Advisor, the WEC Graduate Coordinator, and WEC Student Services. Outside of issues pertaining to your WEC graduate program, the [University of Florida](#) website is a great place to explore for information. This website will allow you to learn about UF and its academics, admissions, campus life, research, and services.

[UF Student Self Service](#) will enable you to view course schedules, register for classes, check payment dates, update your address with the University, and much more. Take a few minutes to familiarize yourself with this useful tool!

**Free Counseling and Health Services:** Counseling and health services are available to all University of Florida students. The [UF Counseling & Wellness Center](#) provides mental health services, peer counseling, substance abuse, suicide prevention, and other programs. The [Student Health Care Center](#) provides other medical and emergency services to all UF students.

### Frequently Called Numbers

You may access the UF Directory using myUFL or the University Homepage. Frequently called UF phone numbers are listed here for convenience. Area code 352.

<a href="#">College of Agricultural &amp; Life Sciences</a>	392-1963	<a href="#">UF Admissions Office</a>	392-1365
WEC IT Services	846-0560	<a href="#">UF Bookstore</a>	392-0194
Classroom and Computer Lab Support	392-2428	<a href="#">UF Career Resource Center</a>	392-1601
GatorLink Help Desk	392-HELP	<a href="#">UF Counseling and Wellness Center</a>	392-1575
<a href="#">UF Police Department</a>	392-1111	<a href="#">University Bursar</a>	392-0181
Graduate Student Council	392-1665	<a href="#">UF Graduate School</a>	392-3261
Marston Science Library Hours	392-2758	UF General Directory Assistance	392-3261
<a href="#">O'Connell Center</a>	392-5500	<a href="#">UF Graduate School</a>	392-6622
<a href="#">Ordway-Swisher Biological Station</a>	846-0576	<a href="#">UF ID Card Services</a>	392-UFID
Recreation & Fitness Center	846-1081	<a href="#">UF International Center (UFIC)</a>	392-5323
Reitz Union Information	392-1649	<a href="#">UF Registrar</a>	392-1374
<a href="#">School of Natural Resources and Environment (SNRE)</a>	392-9230	<a href="#">UF Student Financial Affairs</a>	392-1275
Student Activities	392-1671	<a href="#">UF Student Health Care Center</a>	392-1161

Student Government	392-1665	<a href="#">UF Transportation and Parking</a>	392-7275
Student Night Auxiliary Patrol	392-SNAP	WEC Main Office	846-0643
WEC Personnel Office	846-0578	WEC Student Services Office	846-0633

**Academic Honesty and Other UF Policies:** When a student registers for courses at the University of Florida, it is assumed that he or she has read, understood, and agreed to comply with the following statement on academic honesty:

*"I understand that the University of Florida expects its students to be honest in all of their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action, up to and including expulsion from the University."*

The Department of Wildlife Ecology and Conservation expects its students to abide by all University policies with regard to academic honesty, student conduct, and ethics. If students have any questions concerning academic honesty, student privacy, software copyrights, safety, drugs and alcohol, sexual harassment, discrimination, Affirmative Action, or AIDS, they can seek answers from the UF Human Resources Office, the University Registrar, the UF Dean of Students Office, the WEC Student Services Office, their Graduate Advisor, the WEC Graduate Coordinator or the Department Chair. Additionally, WEC expects our students to conduct themselves in a professional manner at all times.

## The WEC Masters (MS) Non-thesis Degrees

### Non-thesis MS, by Design!

This degree was designed with the working professional in mind. The degree is coursework-based (no research is required) so that students can acquire (1) new knowledge and understanding of technical information related to wildlife and natural resources; and (2) an expanded professional network for current and future employment.

**Limitations of this Degree:** This degree is not a stepping stone into a thesis degree program. A student who completes this degree is ineligible for a WEC MSc thesis degree, and if a student desires to get a thesis-based MSc degree before this degree is completed, the student must disenroll in the non-thesis degree and apply for admission to the MSc thesis degree while adhering to the more stringent requirements for admission to that degree program.

If your goal is to get a PhD, or to become skilled at conducting research, then this non-thesis degree is not a good fit. This non-thesis degree will not help you to establish solid groundwork for a research-based degree or career. If, however, you are (1) already a professional scientist or biologist, or (2) if your principal career interests lie elsewhere than in a science track, this degree can (in either case) expand your expertise and knowledge base to take on new challenges in natural resource-related fields.

### Student Responsibilities

Degree requirements fall into three broad categories: those specified by the UF Graduate School, by the College of Agricultural and Life Sciences, and by WEC. ***It is the student's responsibility to make sure that all degree requirements are met.***

In general, graduate degree requirements are intentionally flexible, allowing you and your Graduate Advisor to design a program that best meets your educational goals. However, in some exceptional circumstances, deviations from stated policy on degree requirements may be warranted. ***Any deviation from stated degree requirements must be formulated as a formal petition, initiated by your Graduate Advisor to the WEC Graduate Coordinator, and approved by the WEC Department Chair and the Associate Dean of the College, at least one semester prior to graduation. Note that petition outcomes are not guaranteed.*** Our goal is to provide our students with a quality graduate education that will meet their academic objectives, while providing them foundation to understand and address the variety of issues, challenges, and opportunities they will face later as professionals.

In addition to meeting stated degree requirements, it is imperative that all WEC graduate students conduct themselves with a high degree of personal integrity. Students must follow the guidelines for conduct detailed by the UF Graduate School in the UF Graduate Catalog and in the [UF Dean of Student's Student Guide](#) with respect to avoiding fraud, plagiarism, cheating, abuses of confidentiality, and conflicts of interest.

### **Faculty Responsibilities to MS non-thesis students**

The UF Graduate School's [Graduate Student Handbook](#) and the UF [Graduate Catalog](#) provide basic guidelines for non-thesis advisor faculty responsibilities.

1. Advisor must inform the student of all regulations governing the degree sought. This does not absolve the student from the responsibility of informing himself/herself concerning these regulations. The student must be familiar with UF Graduate Catalog general regulations and requirements, specific degree program requirements, and offerings and requirements of the major academic unit. Rules are not waived for ignorance.
2. Advisor should meet immediately after matriculation to review the qualifications and needs of the student and to discuss and approve a program of study and aid in filling out the Form 2 (see below).
3. A key role of the faculty is to serve as mentors for graduate students. This mentorship varies depending on the needs of the student and the characteristics of the faculty. In general, mentoring for non-thesis students involves clarifying the student's goals and interests such that appropriate coursework can be selected to further those goals and interests. Non-thesis advisors should review the student's progress and help with problem solving and questions once per term. Advisors may require non-thesis students to attend lab meetings with research students.

**Choose your Advisor based on Research Expertise!** The non-thesis student should select and work out an advising relationship with a Graduate Advisor whose research interests are compatible with the student's scholarly interests.

Virtually all the research conducted by the Department of Wildlife Ecology and Conservation is conducted to enhance our knowledge and understanding of the conservation and ecology of wildlife, habitats, and natural systems. Within this scope, [faculty and students in WEC](#) are engaged in a wide breadth of research activities, at spatial scales ranging from microhabitats to global phenomena, that makes it challenging to characterize and distill the Department's programs into a simplistic framework. . But all of our faculty work in one or more of these general areas - see their web pages for more specific interests.



- (1) Conservation Biology:** This program addresses conservation issues at population, community, and ecosystem levels, using diverse approaches that employ quantitative methods and technologies such as remote sensing, molecular genetics, and computer modeling.
- (2) Spatial Ecology:** Research and education programs in landscape ecology and restoration center on the role of population and community level influences, as well as human-wrought disturbances, on the structure and function of the landscape system. Inherent in landscape scale studies are the capabilities offered by Geographical Information Systems (GIS) technologies.
- (3) Wildlife Conservation and Management:** The department's long-standing program in wildlife biology and management focuses on population ecology and dynamics of native vertebrates, nonindigenous species, and threatened and endangered species.
- (4) Wetland Ecology and Management:** Focal points of work in this area include predicting community dynamics in relation to hydrology, nutrients and other management activities, management and restoration of crocodylians, Everglades restoration, river and lake restoration, coastal zone management, wetland ecotoxicology, endangered wetland species recovery and management, and optimal waterfowl management.
- (5) Human Dimensions in Wildlife Conservation:** The Department of Wildlife Ecology and Conservation developed the first academic program in urban wildlife relations in the United States. This program uniquely melds ecological and social research with conservation outreach to aid in managing wildlife in urban and rural environments.
- (6) International Conservation and Ecology of Wildlife.** In addition, faculty conduct research and outreach internationally in all of the areas above.

## Fees

**MS non-thesis students:** MS non-thesis students are self-funded, which means they are not appointed as graduate assistants or pre-doctoral fellows, and they do not receive a Letter of Appointment. Nor are they assigned work duties, appointment terms, rate of pay, FTE, etc. Because they are self-funded, they are not required to meet additional registration requirements each semester beyond those set by the Department and the UF Graduate School. They are responsible for paying their own tuition and fees by the established fee payment deadline early each semester.

You may determine the balance of your Student Fees on [UF Student Self Service](#) or by contacting the University Financial Services Office (S113 Criser Hall). For detailed information on UF tuition and fees, please visit the [University Bursar](#) and use their [Fee Calculation](#) tool to calculate your tuition and fees balances due.

## Admission Requirements for MS non-thesis Program

*All of the following requirements that apply (as indicated) must be met to qualify for admission into this WEC graduate program.*

1. Prospective non-thesis MS graduate students **must** obtain written agreement by a faculty member in the Department to serve as Graduate Advisor before admission can occur. To facilitate the process of securing an advisor, please visit our [WEC Faculty webpage](#) and use the contact information provided.
2. An earned bachelor's degree is required.
3. An upper division undergraduate GPA of 3.0 or the equivalent is required.
4. Three appropriate letters of recommendation are required.
5. Availability of appropriate faculty expertise and coursework in WEC are required.

6. The WEC Department and Faculty apply a holistic review process to select their graduate students, and the Department no longer uses GRE scores for admissions decisions, awards of merit, or allocations of resources to graduate students\*. UF no longer requires that graduate student applicants take the exam to apply. Therefore, students applying to WEC do not need to take the GRE.
7. International students are not required to submit GRE scores. However, for applicants from countries where English is not the official language, a minimum score on one of these English Language Skills tests is required:
  - Test of English as a Foreign Language (TOEFL): 550 paper, or 80 Internet;
  - International English Language Testing System (IELTS): 6; or
  - Documented successful completion of the University of Florida English Language Institute program

The University's TOEFL code is 5812.

Exemptions are granted if international applicants:

- Have successfully completed one academic year in a degree-seeking program at a recognized/regionally accredited university or college in the United States or a country where English is the official language.
- Hold an earned equivalent of associate's, bachelor's, master's, or PhD degree from a recognized/regionally accredited college or university in the United States or country where English is the official language.

NOTE: For all applicants, exceptions to some of the above admission requirements can be considered if the prospective Graduate Advisor submits a petition to the UF Graduate School and/or the WEC Graduate Program Committee; however, petitions are discouraged and petition outcomes are not guaranteed. Some WEC faculty members may have additional admission requirements; check their Personal Homepage for this information. International applicants admitted by petition with an Internet TOEFL score of less than 80 are required to participate in the University's Academic Written English Program and meet SPEAK Test standards.

## Summary List of Events for MS non-thesis

*Remember: It is the student's responsibility to meet all requirements and deadlines. Ignorance will not be considered an excuse by the UF Graduate School.*

REQUIREMENT	RESPONSIBILITY	TIME TABLE
Transfer Prior Credits	Advisor and Student	By the end of the first semester.
Submit Form-2 (Proposed Schedule of Courses) for approval to Advisor and Graduate Coordinator. File signed Form-2 with WEC Student Services	Advisor and Student	Within first or second semester or before the completion of 12 credits-whichever comes first.
Notify Department of Intent to Graduate	Student	Before the end of the semester prior to graduating semester.
Submit Petitions regarding Degree Requirements	Student	Before the last day of classes in the semester prior to the graduating semester.
Final Term Registration	Student	Minimum 3 credits in Fall or Spring; 2 credits in Summer.
Meet with advisor to sign <b>Final Exam</b> form.*	Student / Advisor	Form needed by Graduate School to finalize degree.
Submit UF Degree Application on <a href="#">UF Student Self Service</a>	Student	Prior to deadline in the graduating semester.
Return keys, equipment and library books and pay fines	Student	Prior to departing.

\* *There is no formal exam required for the non-thesis MSc degree; this form is a formality, but it is required by the UF Graduate School and Registrar to finalize the degree.*

## Defining your Course of Study

The MS Non-thesis student must make a coursework plan (expressed in the Form-2; see a sample Form-2, below) in consultation with their Advisor. See the end of this Handbook for a listing of coursework of the kind most WEC students find relevant, interesting, and useful. Due to the very large number of new courses and special topics offered at UF each semester, this listing is not comprehensive, but defines a variety of appropriate areas of interest. Discuss and establish your plan with your Advisor. You need a minimum of 29 credit hours of graded coursework (fitting the criteria below) and 1 credit of S/U grade for WIS 6933, WEC Seminar.

**Wise Advice!** Courses at UF that relate to Wildlife, Ecology, and Conservation span an incredible array of disciplines, skill-sets, philosophical and technical areas of excellence. With this degree, you are in charge of defining what you will come away with. You can take a hodge-podge of unrelated courses that will be difficult to tie together in a defined field of study. Or you can carefully craft a cutting edge program of study and/or skill-building that sets you up for the next level of a successful career path!

- Future employers will be looking for depth, breadth (or both) of coursework regarding particular areas of expertise.
- Choose your coursework carefully such that you can coherently explain concisely what this degree confers upon you in terms of knowledge and skills.

- Use your advisor to discuss pros and cons of each course choice.
- Discuss courses and instructors with graduate peers to help you make the best selections; check instructor and course evaluations online before committing!

### MS Non-thesis Degree Credit Requirements

**\*\*** *The range of credit hours shown is the minimum # required up to the maximum # allowed for the degree. Some courses have a limit on the number of credit hours in which a graduate student can enroll during his/her graduate career. For example, “0 – 3, 5 max” signifies that none are required, no more than 3 can be counted toward the degree, and no more than 5 may be taken total. Students may enroll in courses superfluous to degree requirements but credit hours earned through these additional courses will **NOT** be counted toward the degree.*

1. The minimum credit hours required for a MS non-thesis degree is 30 with no fewer than 29 credits of graded coursework plus no more than 1 credit of S/U option.
2. WIS 6933, WEC Seminar is the only required S/U class and must be taken as part of the degree requirements.
3. One graduate-level quantitative course must be taken. Course must be at least three credits and provide a true, structured grade (S/U- grade is not acceptable for this quantitative requirement). Course may be taught by WEC or another UF department. See pages 24-2 for listing of approved quantitative courses that fulfill this requirement. Other quantitative courses may be used with the approval of the WEC Graduate Coordinator. **Also consult this website for a current list of quantitative courses at UF of interest to ecology students. The list is maintained by Drs. Baiser (WEC) and Valle (SFRC).**  
[https://ufstatscourses.shinyapps.io/shiny\\_tutorial/](https://ufstatscourses.shinyapps.io/shiny_tutorial/)
4. No credit hours for WIS 6971 will be counted toward the degree.
5. At least 14 graduate credit hours of graded coursework must be in the major (WIS) field.
6. If a minor is chosen, at least 6 credits of graded coursework are required. Students must have a minimum GPA of 3.0 in their minor for the minor to be valid.
7. All coursework must be completed during the 7 years preceding the date the degree is to be awarded, **including** any coursework transferred from another institution.
8. During the final semester, you must be registered for at least 3 credits (if fall or spring) or 2 credits (if summer) that count towards your degree program.
9. As per UF Graduate School policy, the only passing grades for graduate students are A, A-, B+, B, B-, C+, C, and S. Grades of B-, C+ or C count toward a graduate degree if an equal number of credits in courses numbered 5000 or higher have been earned with grades of B+, A- and A, respectively. Grade points are not given for S and U grades; S and U grades are not used to calculate grade point averages. All letter-graded courses eligible to count toward the graduate degree, except 1000- and 2000-level courses, are used to calculate the cumulative grade-point average. Letter grades of C-, D+, D, D- or E are not considered passing at the graduate level, although the grade points associated with these letter grades are included in grade point average calculations. See the UF Graduate Catalog for additional details about graduate grade policy.

Course Requirements: WEC MS non-thesis	Credits **
A. Graded WIS 5000 & 6000 level courses	14 - 29
<b>Can include:</b> WIS 6905 Research Problems in WEC (graded)	6 maximum
WIS 6934 Topics in Wildlife and Range Sciences (graded)	0 - 9

WIS-prefixed or ALS-prefixed Quantitative Course (graded)	3 minimum
<b>B. Additional graded 5000 &amp; 6000 level courses in other departments</b>	0-15
<b>Can include:</b> Another department's Quantitative Course (graded)	3 minimum
<b>NOTE:</b> A. + B. must equal or exceed 29, and include at least one approved, three credit, graduate-level <i>quantitative</i> course (see course requirements) from either WEC or another UF dept.	
<b>C. WIS 6933 WEC Seminar Requirement (S/U grade)</b>	1
<b>TOTAL CREDITS REQUIRED FOR DEGREE</b>	<b>30 minimum</b>

### Preparation of the Form 2-Proposed Schedule of Courses (see below)

A [Form 2-Proposed Schedule of Courses](#) should be submitted to the WEC Student Services Offices by MS Non-thesis students **prior to the end of the first semester**. Each plan of study is unique to the individual student and should be designed to meet your educational goals and be responsibly cohesive. Each section of the Form 2-Proposed Schedule of Courses must be completed; your advisor and the WEC Graduate Coordinator must approve your [Form 2-Proposed Schedule of Courses](#) by signature. **Note:** During your graduate program, you (in consultation with your Graduate Advisor) may make changes in coursework identified on your original Form 2-Proposed Schedule of Courses. The WEC Student Services Office **must** be kept informed of any changes to your Form 2-Proposed Schedule of Courses to ensure compliance with UF Graduate School policies. *If changes are minor (involving 6 or fewer credits), they should be accomplished via a memo to the WEC Graduate Coordinator, using the [Form Letter to Revise Schedule of Courses](#). If your program is substantially changed, a revised Form 2-Proposed Schedule of Courses must be submitted.*

1. Major coursework includes only graded, structured courses with the WIS prefix that can be counted toward your degree, taken at the level of 5000+ *graduate level only*. No S/U graded WIS coursework will be counted, except for WIS 6933 WEC Seminar.
2. Supporting coursework refers to UF courses taken in other departments that you want to be counted toward your WEC degree. These must be graded courses. None of these can be WIS prefix courses. Per UF Graduate School policy, no more than six (6) credit hours can be from 3000- or 4000-level undergraduate courses offered by other (non-WEC) departments may count towards your 30 hour MS non-thesis degree minimum.
3. Minor coursework should be completed only if you have officially declared a minor! No WIS prefix courses can be listed here; all minor courses should be from the department hosting your declared minor. **Note:** only one course from the department offering your minor may also be counted as Supporting coursework.
4. List all courses taken, or planned, on the Form-2. Do not list courses that do not count toward the credit hour requirement for your degree (i.e., deficiencies required by your committee, etc.).



## Example of a Form-2

**FORM 2-PROPOSED SCHEDULE OF COURSES: Wildlife Ecology and Conservation Student: Mac McMaster UF ID #: 4110-0567 Degree Sought: **Master's non-Thesis****

**I. Major Coursework:**

A. WIS graded courses (WIS 5XXX & 6XXX level only; 14+ Credits required in this box; No S/U courses; must be enrolled for at least 3 in last semester if fall or spring (or 2 in summer))

Course Number	Course Title	Hours	Grade	Term (To Be Completed)	Institution
WIS 6905	Research Problems	3	A	Fall 16	UF
WIS 6934	Special Topics in Wildlife and Range Sciences	4	B	Spring 17	UF
WIS 5555C	Conservation Biology	3	A	Fall 17	UF
WIS 6578	Human Dimensions of Biological Conservation	3	B	Fall 16	UF
WIS 6452	Wildlife Ecology	3	A	Fall 16	UF
WIS 6468C	Patterns and Process in Landscape Ecology	3	B	Spring 17	UF
WIS 6905	Research Problems	3	A	Spring 18	UF
Total WIS graded coursework		22			

B. WIS non-graded (S/U) courses: A maximum of 1 hr in this category may count toward the degree. *r=required; o=optional; m=max*

= Graduation credit       = Total credit

WIS 6933	Seminar (r)	1	S	Fall 17	UF
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**II. Supporting Coursework: non-WIS courses only, 15 credit hours max counted towards degree.**

STA 6166	Statistical Methods in Research 1 (example of Quantitative Course)	3	A	Spring 17	UF
ZOO 4926	Community Ecology	4	B	Fall 17	UF
Total Supporting Credit Hours		7			

**Total Credit Hours for Degree I + II must = 30 minimum      Total Credit Hours**

III. Minor Coursework (if appropriate) *Host Department* = \_\_\_\_\_

	N/A				
	N/A				
<b>Total Minor Credit Hours</b>		N/A			

**Note:** Students should collect the Graduate Advisor’s and Graduate Coordinator’s signatures on the Form-2 form, and then turn the form in to the WEC Student Services office.

**WIS 6933 WEC Seminar Course Requirement**

WIS 6933 WEC Seminar is a one (1) credit course required of all WEC graduate students, to be taken prior to the completion of their degree requirements, and involves attendance and critical assessment of departmental seminars. Because different faculty members are assigned as instructors, specific course requirements may vary. However, the course is meant to emphasize the importance of critical assessment of public presentations in the profession, and to expose graduate students to the breadth of work and opportunity in the field of WEC. This is the only S/U (ungraded) credit allowed among the 30 credits necessary for the MS non-thesis degree.

**Registration for UF Courses**

**MS** students are classified as **7AG** (graduate students seeking a first master’s degree). Students must confirm that their student records reflect this classification. Each semester, your registration should reflect your progress as specified on your Form 2-Proposed Schedule of Courses, and be approved verbally by your Graduate Advisor.

Registration for UF graduate courses may be completed using [UF Student Self Service](#), provided you have created a [GatorLink](#) username and password. Students must meet UF registration deadlines or pay late registration penalties. The Registrar’s [Schedule of Courses](#) provides comprehensive information related to UF graduate courses, departmental contact information, registration deadlines, etc. Students can self-register on [UF Student Self Service](#) for most graduate courses; some courses are department-controlled and first require instructor permission. Complete graduate course descriptions are found in the UF Graduate Catalog.

**Registration Requirements**

Minimum registration requirements apply to all UF graduate students, depending upon their status. The **minimum registration requirement** to remain enrolled is three (3) credit hours in the Fall and Spring semesters, and two (2) credit hours during the Summer C (or 2 each in Summer A and B) semester; and students must also meet the minimum registration requirements stated above.

**Dropping and Adding Courses**

To drop or add a course (whether it is on your Form 2-Proposed Schedule of Courses or not) **after the official UF Drop/Add period at the beginning of each semester**, requires a Graduate Schedule Change Form, which must be approved by WEC Student Services. No special restrictions apply when dropping or adding a class during the official UF Drop/Add period; students use [UF Student](#)

[Self Service](#) and follow the instructions given. The Graduate Schedule Change Form is located on the [CALs website](#). **Note: All UF students are held liable for tuition and student fees if a course is dropped AFTER the official UF Drop/Add period. A late registration penalty of \$100 may also apply if courses are added after the official UF Drop/Add period**

### Transfer of Credits

**Only graduate level coursework with a grade of B or better is eligible for transfer of credit.** No more than nine (9) credit hours of graduate work (5000 level and above), taken from approved institutions outside of UF, will be approved by the UF Graduate School. Transfer of credit from one master's degree to a second master's degree is limited to six (6) semester hours. UF undergraduates may transfer up to six (6) credits of 5000-6000 level courses taken as an undergraduate provided that the courses were taken in excess of their undergraduate degree requirements. **Requests for transfer of credits must be made during the first semester of your graduate program.** Transfer of credit requests are initiated by your Graduate Advisor and require the approval of the CALS Dean, and must be formally requested of and approved by the Graduate School. Consult WEC Student Services for further details. Transfer coursework must be taken within the seven (7) years immediately preceding the date upon which the master's degree is to be awarded.

### Minors

**MS:** If a minor is chosen, at least six (6) credit hours of coursework must be completed with a minimum 3.00 GPA in that field. Course requirements for the minor program must be approved by your Supervisory Committee by the end of the second semester of your graduate program, and identified on your Form 2-Proposed Schedule of Courses. Also, one member of your Supervisory Committee must be from the minor department. Consult the [Graduate Catalog](#) and the WEC Student Service Office for information regarding procedure to declare a minor.

### Unsatisfactory Performance in Coursework and Petitions

The Graduate School automatically flags student records and prevents registration in the following semester for graduate students who do not maintain a 3.00 average in all work attempted. **If a student thinks his or her cumulative GPA may drop below 3.00, he or she must inform his or her Graduate Advisor.** The Graduate Advisor must then petition the UF Graduate School to allow registration. This petition must first be approved by the WEC Graduate Coordinator and the CALS Associate Dean, and then forwarded to the UF Graduate School. **All petitions to the UF Graduate School are initiated by the student's Graduate Advisor; students should consult WEC Student Services for more information about the petition process.**

## Logistics of Being a WEC Graduate Student

### Gator 1 Card

The [Gator 1 Card](#) is your official University of Florida picture ID card, and is required of all UF students, faculty, and staff. A valid Gator 1 Card must be presented to transact business at University Financial Services, to pick up tickets for athletic events, to use Gator dining accounts, to use the CIRCA computer labs, to use the University Libraries, to ride the city/campus (RTS) for free, to use all university recreational facilities, etc.. Your Gator 1 Card can be obtained at the [ID Card Services Office](#). An official photo ID (passport or driver's license) and \$15 are required. A student's spouse may obtain a Gator 1 Card from the ID Card Services Office with a photo ID (e.g., driver's

license, military ID, or passport), the *student's* Gator One Card, a copy of the marriage certificate, and \$15.

### **Florida Residency and Change of Residency**

Residency is a classification that determines your rate of tuition (in-state or at the University of Florida). Your initial residency classification (Florida resident or non-resident) is determined by the UF Office of Admissions when you apply to UF. Reclassification of your residency status after you are admitted to the University is determined by the UF Office of the Registrar, and will only be considered before the end of your first semester at UF.

It is University policy that graduate assistants and fellows who are not Florida residents should establish [Florida Residency](#) as soon as they are eligible. Further information is available from the [UF Office of the Registrar](#) (222 Criser Hall).

### **Carrel Assignments**

A limited amount of graduate student carrel space exists within Newins-Ziegler Hall and elsewhere. Some WEC students are assigned space within their Graduate Advisor's lab. Otherwise, the [Wildlife Graduate Student Association](#) under the guidance of the WEC Graduate Coordinator assigns carrels to incoming students. All WEC graduate assistants and fellows are eligible for assignment to a carrel; if enough space is available, other WEC graduate students will also be accommodated. New students should first check with their Graduate Advisor, and then contact the WGSA if a carrel is needed. This should be done prior to the first semester.

### **Keys, Vehicles, and Equipment**

Your Graduate Advisor will disburse keys for Newins-Ziegler Hall and outlying WEC properties. Graduate students who have a valid Florida driver's license, are employees of the University (i.e., are either graduate assistants or OPS employees), and have permission to charge vehicle-use costs to a faculty member's account may check out general-use vehicles through the WEC Operations Manager (B-3A NZH). Grant-funded projects may have full-time use of particular vehicles, but also must abide by all University regulations and state laws. Vehicles are to be used only for research, extension, and teaching purposes; they are **not** for personal use. Basic equipment can be obtained through the WEC Operations Manager.

### **Graduate Student Associations**

In addition to the formal [Graduate Assistants United](#), there is a Wildlife Graduate Student Association ([WGSA](#)). The WGSA allocates travel grants, hosts a variety of speakers and workshops, organizes social events, facilitates the appointment of student to various faculty committees and is often solicited for advice on graduate programs within WEC. Graduate students are encouraged to take an active role in WGSA student governance and have input into Departmental policies. The WGSA maintains a mailbox in the Newins-Ziegler mailroom (110A NZH) and a bulletin board on the third floor. All UF graduate students may also attend the [UF Graduate Student Council](#) meetings (324 Reitz Union). WEC Graduate students are also encouraged to become involved in the [UF Student Chapter of The Wildlife Society](#) and any other WEC or UF student organization in which they are interested. See [Student Organizations](#).

### **Computer Facilities**

Computer labs for all CALS graduate students are located in 2103 McCarty Hall and 1302 Fifield Hall. Public hours and reserved hours are posted outside each lab, as well as on [CALS IT Services](#). Access to your email host, the internet, and various software is available in each lab. In addition,

each graduate student receives approximately 250 pages of free printing each semester. Students must provide their own storage device, and may not save any work on the hard drives. More information can be found on the [WEC IT Computer Support Resources](#). Please email Tom Barnash, [barnasht@ufl.edu](mailto:barnasht@ufl.edu) for assistance with WEC computer equipment, and for access to software and other computing resources.

### **Use of Stationery and Office Equipment**

Graduate students may use the WEC fax machine, letterhead stationery, and office equipment in the WEC Main Office (110A NZH) for official business purposes only. Students must make arrangements with their Graduate Advisor to use the copy machine in the Main Office, as it requires a code and copies must be charged to faculty accounts.

### **Use of Phones and Fax**

WEC graduate students may use Departmental telephones for local calls. There are telephones located in the Main Office (110A NZH), the NZH Breezeway, and in most other offices. Students working on research projects may have to make long distance calls on WEC phones; this should be worked out with a student's Graduate Advisor, logged in, and charged to that specific research account. Graduate students may use the WEC fax machine in the Main Office (110A NZH) for official business purposes only; this includes local and long distance faxes.

### **UF Email and WEC List-serv**

All UF graduate students establish free GatorLink email accounts, and this mailbox will be used for all official University, UF Graduate School, College, and Department communications, including official list-serv announcements. See the [GatorLink Home Page](#) for details about this and other services. WEC Student Services also maintains an informal WEC Graduate List-serv; contact Kelley Graff, [kellygraff@ufl.edu](mailto:kellygraff@ufl.edu), if you wish to be added to the WEC Graduate List-serv.

### **Flagging of Graduate Student Registration**

Some degree requirements must be met within specified time limits (e.g., development of the Form 2-Proposed Schedule of Courses). If you anticipate that these requirements will not be completed on time, you should ask your Graduate Advisor to petition to the WEC Graduate Coordinator detailing the extenuating circumstances and asking for a one semester extension. Each semester, student records are automatically audited by the UF Graduate School, and if these requirements have not been met, the student's record will be designated deficient.

### **Interruption of Graduate Study and Leaves of Absence**

Students who plan to take a leave of absence for two or more consecutive semesters should obtain written approval from their Graduate Advisor before they leave. Students must also inform the WEC Student Services Office of their plans by completing the [Form for Interruption of Study](#).

**Readmission:** A student, who does not register for two consecutive semesters, must formally reapply for admission to UF. All readmission applicants must meet the current admission requirements of the college or school they expect to enter. Readmission is for a specific term. If you are unable to enroll for the semester for which you have been admitted, you must apply for readmission again to a different term. See [Graduate Readmission](#) details.

A student who plans not to register for one semester should seek permission in writing from his or her Graduate Advisor for this limited leave of absence. A registration appointment will automatically be issued the following term; no further action needs to be taken by the student. No



readmission application is required when a student takes leave for one semester (such as the Summer semester).

If leave is contemplated to pursue graduate research in support of a thesis or dissertation, and if the student is using University facilities (e.g. libraries, laboratories, etc.) and/or faculty time (including the time of one's Graduate Advisor) then serious consideration must be given to enrolling for a minimum number of credits in order to maintain University connections (liability, medical assistance, use of University property, etc.). It is University policy that graduate students who wish to be considered "active" be registered each and every semester, even if they are in the field conducting research.

### **Sexual Harassment and Discrimination**

If at any time a UF graduate student believes he or she has been sexually harassed or discriminated against in any manner, he or she should immediately contact his or her Graduate Advisor, Department Chair or Graduate Coordinator. The incidences may be on or off campus (such as when seeking housing). Sexual harassment and any form of discrimination **are not the student's fault**, and complaints of any form can be made to any University personnel in a supervisory capacity. For University policy on sexual harassment, see [UF Office of Human Resource Services Policies/Handbook](#).

### **Interaction with Other Disciplines**

Interdisciplinary interaction, training, and research is encouraged at UF through the variety of courses, seminars, certificate programs identified in the [UF Graduate Catalog](#) and other activities on campus. Because WEC students may interact closely with graduate students and professors in a number of units, such as Latin American Studies,

African Studies, Zoology, Botany, Forestry, Microbiology, Statistics, Education, Economics, Environmental Engineering, Entomology, Resource Economics, etc., WEC students often take courses in other departments as part of their graduate program.

WEC graduate students can anticipate interaction with graduate students and professors from many of these disciplines, as well as from visiting students and professors from around the world. WEC graduate students are thus given the rare opportunity to network and correspond with a variety of professionals in a variety of fields, and are encouraged to attend seminars given through other departments at UF.

### **Personnel Information**

The WEC Personnel Office (109 NZH) will provide assistance when the student is either an employee or the manager of an account. All UF graduate student employees are required to participate in the Direct Deposit program as a condition of employment.

### **Workers' Compensation**

If a student receives a UF paycheck for any purpose, they are considered a **UF employee**. If an employee is injured while conducting duties for their UF employment, they must receive medical care from an authorized medical provider in all cases except an emergency. Contact [UF Worker's Compensation Office](#) at (352) 392-4940 for guidelines. If the employee receives care from an unauthorized medical provider the employee will be responsible for all costs incurred. Only medical costs for emergency life or death situations may be exempt from this policy.

### **If the employee is injured:**

- 1) Notify the employee's supervisor. (This is the supervisor who is providing funding).

- 2) The employee and the supervisor must immediately contact the UF Workers' Compensation Office, Monday through Friday, between 8:00am and 5:00pm, at (352) 392-4940 or Suncom 622-4940 **before** going for medical treatment. If the supervisor is unavailable the employee may contact the UF Workers' Compensation Office alone.
- 3) If the employee is in the Gainesville area they may go to the UF Student Health Care Center (392-1161) or First Care for treatment. Notify the center staff that the injury is work related.
- 4) In the case of a life threatening injury the employee may call 911 for help and go to the nearest emergency care center. After emergency medical care is secured, contact UF Workers' Compensation at (352) 392-4940 to report the incident.
- 5) The employee must not go to their personal physician for any work related injury. Workers' Compensation will not cover the claim.

If the employee is in the field, find out where the nearest emergency care provider is by calling Humana (800) 424-6689. A moment of crisis is not the proper time to research where to go in an emergency.

***Accident Report Follow-up.*** An *Occupational Injury Investigation Report* must be completed within 48 hours of the accident. The supervisor and employee sign the report and return it to the WEC Personnel Office for forwarding to UF Environmental Health and Safety Division.

The Worker's Comp office will forward the *First Notice of Injury Report* to the department for the signatures of the supervisor and employee. The completed report must be returned as soon as possible to the WEC Personnel Office.

## **International Travel**

All UF students traveling outside the United States, who participate in any UF sanctioned or sponsored event, including conducting research or study projects under the direction of a UF faculty advisor, must have adequate personal health and accident insurance. Medical insurance also may be required. It is the responsibility of the student to understand the living conditions in their host country, and to be aware of risks which may occur when traveling or studying abroad. Contact the [UF International Center](#) for health insurance information. Information on required immunizations may be obtained through the Center for Disease Control (404) 332-4565/fax or through Alachua County Public Health medical services at (352) 336-2364.

## **Library Resources**

The [Libraries of the University of Florida](#) comprise the largest information resource system in the state of Florida. The University of Florida has ten libraries and houses over 3,000,000 books and journals. The [Marston Science Library](#) is the primary resource for wildlife literature at the University of Florida. The library holdings include books, journals, reference materials, bibliographies, and governmental documents in printed and electronic formats. CD-ROM titles include: Fish and Wildlife Review, Biological Abstracts, BA/RRM (conference proceedings, reviews, technical reports), Zoological Record, and Cambridge Database. There are also extensive Fish & Wildlife Reference Service microfiche holdings. See the Reference Librarian at the [Marston Science Library](#) for more information.

## Integrity in Graduate Study

Students who find themselves in ethically confusing situations will want to consult the UF Graduate School's [Graduate Handbook](#) for guidelines regarding fraud, plagiarism, cheating, abuses of confidentiality, and conflicts of interest.

## List of Appropriate Types of Courses

Keep in mind, your Advisor and you have control over the courses you take for your degree; any course that can be justified and fits the required criteria on the Form 2, is allowable with approval by the Graduate Coordinator (who will defer most times to the Advisor). Listed below are potential departments to search for classes currently approved to satisfy coursework requirements for all graduate degrees in WEC. Another useful site to identify potential courses is found at the [School of Natural Resources and Environment](#). ***This list must be considered as a guide only to the departments and kinds of courses you may be looking for – not a definitive list of what is available or required!*** See the departments for current course offerings available during the terms when you need them. Ask students, staff and faculty if you have questions about courses! This list is just a guide.

**NOTE: Special Topics** courses are those with a temporary/experimental course number (e.g., FAS 6932, WIS 6934, ZOO 6927, etc.). ***Special Topics courses will usually satisfy graded course requirements, but their use on your Form 2-Proposed Schedule of Courses must be approved by your Advisor.***

### Ecology

**Departments containing eligible courses include:** AGG, AGR, BOT, EES, ENY, FAS, FOR, PCB, SOS, WIS, and ZOO.

### Human Dimensions in Natural Resources

**Departments containing eligible courses include:** ADV, AEB, AEE, ANT, CPO, ECO, EES, EME, ENV, FOR, FNR, FOR, GEA, LAA, LAS, LEI, MMC, POS, PUP, REL, SCE, SUR, URP, and WIS.

### Quantitative Analysis for Natural Resources

**Departments containing eligible courses include:** AEB, AEB, ANG, CAP, ECO, EDF, EES, FNR, GEO, MAP, MMC, MTG, PCB, POS, STA, SUR, URP, WIS, and ZOO. **Special Topics**

### Ecology

AGR 6311 Population Genetics (2)  
BOT 5685C Tropical Botany (5)  
BOT 5695 Ecosystems of Florida (3)  
BOT 5655C Physiological Plant Ecology (3)  
BOT 5725C Taxonomy of Vascular Plants (4)  
EES 5305C Ecological and General Systems (3)

EES 5307 Ecological Engineering (3)  
EES 5315 Ecology and the Environment (2)  
EES 6140 Biology of Exotic Species (3)  
EES 6308C Wetland Ecology (3)  
EES 6356 Estuarine Systems (3)  
ENY 6203 Insect Ecology (3)  
ENY 6203L Insect Ecology Lab (1)  
ENY 6454 Behavioral Ecology and Systematics of Insects (3)  
FAS 5276C Field Ecology of Aquatic Organisms (4)  
FAS 5901 Scientific Thinking in Ecology (2)  
FOR 5159 Ecology and Restoration of Longleaf Pine Ecosystems (3)  
FOR 6170 Tropical Forestry (3), F-odd  
PCB 5046C Advanced Ecology  
PCB 5307C Limnology (4)  
PCB 5338 Principles of Ecosystem Ecology (3)  
PCB 5356 Tropical Ecology (3)  
PCB 5415C Behavioral Ecology (4)  
PCB 5615 Molecular Evolution and Systematics (4)  
PCB 6377C Physiological Ecology of Vertebrates (4)  
PCB 6049 Seminar in Ecology (1-3)  
PCB 6447C Community Ecology (4)  
PCB 6496C Stream Ecology (4)  
PCB 6605C Principles of Systematic Biology (4)  
PCB 6695 Seminar in Evolutionary Biology (1)  
SOS 5303C Soil Microbial Ecology (3)  
SOS 6323 Advanced Microbial Ecology (3)  
WIS 5496 Research Design in Wildlife Ecology (3)  
WIS 5555C Conservation Biology (3)  
WIS 6444 Advanced Wetlands Ecology (4)  
WIS 6452 Wildlife Ecology (3)  
WIS 6466 Wildlife Population Modeling (3)  
WIS 6468C Pattern and Process in Landscape Ecology (3)  
WIS 6934 Foundations of Wildlife Ecology: Theory and Application (3)  
WIS 6934 - Stream Fish Biology (3)  
WIS 6934 Wildlife Ecology and Management (3)  
WIS 6934 Wildlife Habitat Management (3)  
WIS 6934 Climate Change Ecology (2)  
WIS 6934 Hurricane Ecology (1)  
WIS 6934 Conservation Genetics (3)  
WIS 6934 Sea Turtle Biology (3)  
WIS 6934 Salamander Biology (3)  
WIS 6934 Coastal Plains Ecosystems (2)  
WIS 6934 Ecosystems of South Florida (3)

WIS 6934 Wetlands Management and Research (3)  
WIS 6934 Biodiversity: Ecological Patterns and Processes (3)  
WIS 6934 Ecological Dynamics and Forecasting (2)  
WIS 6934 Data Carpentry (3)  
WIS 6934 Global Change Biology (3)  
ZOO 5486C Mammalogy (4)  
ZOO 6005 Integrative Principles of Zoology 1 (4)  
ZOO 6406 Biology of Sea Turtles (3)  
ZOO 6456C Ichthyology (4)  
ZOO 6515C Ethology (4)  
ZOO 6542 Nutritional Ecology (3)  
ZOO 6931 Seminar in Marine Turtle Biology

### **Human Dimensions**

ADV 6602 Advertising Management (3)  
AEB 6106 Microeconomic Principles & Analysis (3)  
AEB 6453 Natural Resource and Environmental Economics (3)  
AEB 6483 Seminar in Natural Resource and Environmental Economics (3)  
AEB 6645 Economic Development and Agriculture (3)  
AEC 5541 Communication & Instructional Technologies in Agricultural & Life Sciences (3)  
AEC 6540 Agricultural and Natural Resources Communication Theory (3)  
AEE 5060 Public Opinion and Agricultural and Natural Resource Issues (3)  
AEE 5454 Leadership Development for Extension & Community Nonprofit Orgs. (3)  
AEE 6300 Methodology of Planned Change (3)  
AEE 6512 Program Development in Extension Education (3)  
ANG 5702 Anthropology and Development (3)  
CPO 6307 Latin American Politics (3)  
CPO 6091 Introduction to Comparative Political Analysis (3)  
ECO 7716 International Economic Relations (3)  
EES 6009 Ecological Economics (2)  
EES 6318 Principles of Industrial Ecology (3)  
EME 6945 Practicum in Educational Media and Instructional Design (3-8)  
ENV 5075 Environmental Policy (3)  
FNR 5072C Environmental Education Program Development  
FNR 6061 Conflict and Collaboration in Natural Resources (3)  
FOR 5615 Forest Conservation and Management Policies and Issues (3)  
FOR 6005 Conservation Behavior (3)  
FOR 6543 Valuation of Forest Resources (3)  
FOR 6268 Community Forest Management (3)  
FOR 6665 Landscape Planning for Ecotourism (3)  
FOR 6934 Seminar in Environment and Society (3)  
FYC 6620 Program Planning and Evaluation for Human Service Delivery (3)  
  
GEA 6468 Resource Utilization and Conservation in Latin America (3)



GEA 6468L Resource Utilization and Conservation in Latin America (3)  
 GEO 6938 Park and People (3)  
 LAA 6382 Ecological and Environmental Policy (3)  
 LAS 6290 Tropical Conservation and Development (3)  
   LAS 6291 Conflict Management and Collaboration (3)  
 LAS 6291 Conservation and Development Skills (3)  
 LEI 6895 Tourism Theory and Concepts (3)  
 MMC 6400 Mass Communication Theory (3)  
 MMC 6409 Science and Health Communication (3)  
 POS 6157 Community Analysis (3)  
 PUR 6607 Public Relations Management (3)  
 SCE 6290 Science Instruction in Informal Settings (3)  
 SOS 5235 South Florida Ecosystems (3)  
 SUR 6427 Land Tenure and Administration (3)  
 URP 6061 Planning Administration and Ethics (3)  
 URP 6341 Urban Planning Project (1-12; max 12)  
 URP 6601 State Planning (3)  
 WIS 6544 Administration in Natural Resources (3)  
 WIS 6525 Environmental Interpretation (3)  
 WIS 6543 Wildlife and Agriculture (3)  
 WIS 6557 Wildlife Conservation Laws and Legislation (3)  
 WIS 6559 Contemporary Issues in Wildlife Protection and Conservation (3)  
 WIS 6576 Human-Wildlife Conflict (3)  
 WIS 6578 Human Dimensions of Biological Conservation (3)  
 ZOO 6927 Creative Scientific Communication (3)

### **Quantitative Analysis**

***WEC MS Non-thesis students are required to include three credit hours of quantitative coursework in their 30 hours minimum required for the degree.***

***Students seeking quantitative courses in statistics should consult this website for a current list of statistics courses at UF of interest to ecology students! The list is maintained by Drs. Baiser (WEC) and Valle (SFRC). [https://ufstatscourses.shinyapps.io/shiny\\_tutorial/](https://ufstatscourses.shinyapps.io/shiny_tutorial/) The following list includes other kinds of quantitative courses (remember: it is for suggested kinds of courses – many of these may no longer be offered. Peruse the departments for updated lists of current courses).***

AEB 5167 Ecological Analysis of Small Farm Livelihood Systems (3)  
 ALS 5932 - Ecological Statistics and Design (3) **(Note: the Graduate School views this ALS course as “Coursework in the Major” so it can be counted towards your 14+ WIS course minimum on your Form-2.) Beginning in Fall 2017, this course will be taught as STA 6093**  
 ANG 5485 Research Design in Anthropology (3)  
 CAP 5805 Computer Simulation Concepts (3)  
 ECO 7415 Statistical Methods in Economics (3)

ECO 7408 Mathematical Methods and Applications to Economics (1-2)  
EDF 6401 Educational Statistics (3)  
EDF 6403 Quantitative Foundations of Educational Research (6)  
EES 6026C Environmental Systems Dynamics (3)  
EES 6028 Spatial Modeling Using GIS (3)  
EES 6301 Comparative Approaches in Systems Ecology (3)  
FOR 5435 Forest Information Systems (3)  
GIS 5028C Remote Sensing (4)  
GIS 5107C GIS in Research (4)  
GIS 5306 GIS Applications in Environmental Systems (3)  
MAP 6487 Biomathematics Seminar I (3)  
MAP 6488 Biomathematics Seminar II (3)  
MMC 6421 Research Methods in Mass Communication (3)  
MTG 5412 Introduction to Dynamical Systems and Chaos (3)  
PCB 5459 Morphometrics (3)  
PCB 6555 Introduction to Quantitative Genetics (3)  
POS 6757 Survey Research (3)  
STA 5325 Fundamentals of Probability (3)  
STA 5503 Categorical Data Methods (3)  
STA 5701 Applied Multivariate Methods (3)  
STA 6093 Intro to Applied Statistics (3) -- formerly ALS 5932 Intro to Applied Statistics  
STA 6166 Statistical Methods in Research I (3)  
STA 6167 Statistical Methods in Research II (3)  
STA 6207 Applied Statistical Methods (3)  
STA 6209 Design & Analysis of Experiments (3)  
STA 6505 Analysis of Categorical Data (3)  
SUR 5385 Remote Sensing Applications (3)  
SUR 5625 Geographical Information Systems Analysis (3)  
SUR 6395 Topics in GIS (3)  
URP 6271 Planning Information Systems (3)  
WIS 5496 Research Design in Wildlife Ecology (3)  
WIS 6455 Wildlife Population Ecology (3)  
WIS 6466 Wildlife Population Modeling (3)  
ZOO 6308 Dynamic Optimization Models in Behavioral and Evolutionary Ecology (3)  
WIS 6468C Pattern and Process in Landscape Ecology (3)  
WIS 6934 Biometry (3)  
WIS 6934 Ecological Statistics