

Mississippi State University
College of Forest Resources

2011-2012



Undergraduate Handbook

PREFACE

This handbook has been prepared for undergraduate students and advisors in the College of Forest Resources (CFR) at Mississippi State University (MSU) and contains information that will assist students in their progression towards the Bachelor of Science (B.S.) degree. This information is provided to answer questions which may arise during a student's academic endeavors.

The ultimate responsibility for meeting graduation requirements and decisions on course selection resides with the student. Specifically, responsibilities of the student are to:

- be aware of and understand degree requirements of his or her chosen major and option;
- be aware of and understand the MSU, CFR, and departmental policies, procedures, and academic calendar and meet all relevant deadlines;
- meet all requirements of the degree program being pursued; and
- maintain regular contact with his or her faculty advisor.

The responsibility of the faculty advisor is to provide effective counsel to the student on academic matters regarding curriculum and career decisions.

This handbook is intended to supplement the MSU Bulletin. This handbook may include changes or requirements not found in the MSU Bulletin. Each student should retain a copy of the MSU Bulletin and the CFR Undergraduate Handbook that contains the curriculum year he or she is following. Students are expected to bring this handbook to academic appointments.

Questions should be addressed to Ms. Rachel L. Singleton, Academic Coordinator, Office of Academic Affairs. 129 Thompson Hall, Mississippi State, MS 39762, 662.325.2624 or rsingleton@cfr.msstate.edu

This handbook presents information that, at the time of preparation, most accurately described courses, curricula, degrees, policies, procedures, regulations and requirements of the College of Forest Resources.

No contractual relationships can be established between students, the College of Forest Resources, and the University upon the information contained herein. The CFR reserves the right to delete, substitute, change, or supplement any statement in this handbook without prior notice.

HANDBOOK REVISED AUGUST 2011

Discrimination based upon race, color, religion, sex, national origin, age, disability, or veteran's status is a violation of federal and state law and MSU policy and will not be tolerated. Discrimination based upon sexual orientation or group affiliation is a violation of MSU policy and will not be tolerated.

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INTRODUCTION

The College of Forest Resources is one of eleven colleges and schools at MSU. The CFR was founded in 1954 as the School of Forestry to provide teaching, research, and service opportunities about forests and associated renewable natural resources for the state, region, and nation. Since then, the CFR has earned a national and an international reputation as a center for science and education programs in natural resources management and use.

The CFR has unique responsibilities to fulfill the goals of Mississippi State University through programs focused on Mississippi's most important renewable natural resources: forests and their products, fisheries, wildlife, and water. In doing so, the CFR's mission is to promote the professional and intellectual development of its students; expand through research the fundamental knowledge upon which the natural resource disciplines are based; and assist with development and utilization of the forest, wildlife, fisheries, and water resources of the state and nation through applied education, research, service, and technology transfer activities.

The vision of the CFR is to be recognized as preeminent in teaching, service, and outreach in forest products, forestry, wildlife and fisheries in the United States.

Most academic forms for students are available on the web at <http://www.cfr.msstate.edu/students/> or in the Student Lounge, Room 131, Thompson Hall.

Jobs, internships, and summer employment opportunities are posted on the CFR Jobs Database on the web at www.cfr.msstate.edu/jobs. Scholarship opportunities, CFR student organization notices, and other academic related information are posted on the bulletin boards in the Student Lounge and are forwarded electronically to students' MSU email address .

A microwave and vending machines are available to students in the Student Lounge.

The CFR is housed in a state-of-the-art building, Thompson Hall, which equals or surpasses facilities of most natural resource education programs in the nation. The specialized teaching and research facilities available to the CFR's education program include four computer laboratories with over 50 PC workstations and 11 Unix workstations. The Spatial Information Technologies Laboratory (SITL) is equipped with 7 Unix workstations, 8 PCs and a SunFire V250 file server and it administers the teaching/research lab that houses 11 Unix workstations. All 18 Unix workstations are equipped with internal PC cards to provide both PC and Unix software functionality for remote sensing/image analysis and geographic information systems (GIS). CFR resources and facilities also include the 8,200 acre John W. Starr Memorial Forest, located nine miles from campus; the 1,200-acre Sharp Forest in northeastern Mississippi; significant captive animal holding facilities; the Franklin Furniture Building; and the Forest and Wildlife Research Center. Research and instruction activities also use the Noxubee National Wildlife Refuge and the Tombigbee National Forest, both located adjacent to the John W. Starr Memorial Forest.

SECTION I: GENERAL INFORMATION AND COLLEGE-WIDE POLICIES

ACADEMIC ACHIEVEMENT

Full time students completing at least twelve hours (with no incomplete grades nor grades lower than a C) in a regular semester who earned a GPA of 3.80 or higher are President's Scholars. Dean's Scholars are students who earned a GPA of 3.50 to 3.79.

Students who have completed 60 hours of their degree at MSU and earned high GPAs on both MSU and cumulative coursework will receive the following recognition at graduation: Summa Cum Laude: GPA 3.80 or higher; Magna Cum Laude: GPA of 3.60 to 3.79; or Cum Laude: GPA of 3.40 to 3.59.

ACADEMIC AMNESTY

The Academic Amnesty program is designed to provide students with an opportunity to have past grades of "D" and/or "F" eliminated from the computation of his or her grade point average at MSU. Courses included in Academic Amnesty are not applied toward graduation. To be eligible for this program, students must have a total of five years' continuous nonattendance in any post-secondary institution of higher education. Students may request Academic Amnesty at any time after admission or re-admission to MSU until the end of the semester preceding that in which the student graduates. The new grade point average will be noted on the transcript upon successful completion of at least 12 hours at MSU. This is an MSU policy and may not be honored at other institutions of higher learning.

ACADEMIC FRESH-START

Students who have not been enrolled in a post-secondary institution of higher education for at least 24 consecutive months may petition for Academic Fresh-Start. All credits will be eliminated from the student's grade point average and may not be used toward graduation at MSU. The student's transcript will reflect the course work, but will contain a notation declaring the course work void for the purposes of academic standing and graduation. The notation will be on the transcript upon successful completion of 12

hours at MSU. This MSU policy may not be honored at other colleges and universities.

ACADEMIC FORGIVENESS

Effective Fall 2004, for MSU courses taken during or after Fall 2003, students will be permitted to retake up to two courses, not to exceed 8 hours, in which he or she made a "B", "C", "D" or "F", with the original grade remaining on the transcript but not counted in the student's GPA. The second grade will be computed in the GPA, regardless of which of the two grades is the higher. A student may only retake a course once under this policy and it must be taken at MSU. Students may not retake a course in which an "F" was received as a sanction for academic misconduct.

To invoke this policy, the student must submit an electronic retake request form to the Registrar by 5:00 p.m. on the last day to add a course. The electronic form can be requested when the student is in the My Banner system. The CFR Academic Affairs Office will be notified electronically that retake requests have been registered and will have the opportunity to review the requests.

Any retake requests not processed by the home department within five business days of the last day for submitting requests will be implemented automatically.

ACADEMIC STANDING

Academic Probation

Students whose cumulative MSU GPA is less than 2.00 at the end of any term will enter the next term on academic probation and will remain on probation until the GPA reaches 2.00 or higher. The course load for students on probation is restricted to 14 credit hours; a student on academic probation who enrolls concurrently in excess of this limit in correspondence courses or at another institution will not receive credit at Mississippi State University for such courses.

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Academic Suspension

Students with a semester GPA of less than 2.0 who have attempted at least 24 hours of coursework at Mississippi State University AND who fail to meet the following MSU cumulative GPA requirements will be suspended.

Classification	Earned Hours	MSU Cumulative GPA
Seniors	90 or more hours	2.0
Juniors	60–89 hours	2.0
Sophomores	30-59 hours	1.8
Freshmen	29 or fewer hours	1.6

No student will be suspended for failing to achieve the required GPA without first having had at least one semester of probationary notice (not necessarily the immediately preceding semester).

Academic suspension shall be for at least one regular (fall or spring) semester. For students suspended at the end of a spring semester, the suspension precludes enrollment in any summer school session as well as the following fall semester. The student will be readmitted on academic probation following the expiration of the first suspension. A student who attends another university during a suspension from MSU must maintain a 2.0 GPA (calculated by MSU standards) on any transfer work. Students who fail to meet these criteria may be readmitted only on the recommendation of their college and with the approval of the Provost. A student may continue in school during the second term of summer session, irrespective of his or her record during the first term.

Academic Dismissal

A student who has one academic suspension and does not earn a current semester GPA of 2.00 or higher and has less than the required MSU cumulative GPA listed under the Academic Suspension rules will be dismissed.

A student who has been dismissed is not automatically or routinely readmitted. A student may submit a

written petition for readmission to their college after one calendar year's absence. The College may, upon recommendation from the student's advisor and department head, approve readmission.

ACCESS TO THOMPSON HALL

Undergraduate students currently enrolled in CFR academic programs may use their MSU ID card for access to Thompson Hall and Thompson Hall computer labs. Access is granted after the tenth day of the semester by the CFR Academic Coordinator.

ADMISSION REQUIREMENTS

Freshmen who meet MSU admission requirements will be allowed to choose a major and an option in the CFR.

Students transferring from another accredited senior or community college of higher learning who meet MSU admission requirements and wish to pursue a major in the College of Forest Resources and have a 2.00 or better GPA will be admitted into a major and an option within the College.

ADVISING

A faculty advisor will be assigned to each student after the tenth day of the semester. The faculty member remains as the student's advisor throughout his or her academic career at MSU unless: (1) the student changes major/option; or (2) a change in advisee or advisor is requested. A list of CFR advisors is posted in the CFR Student Lounge. Faculty offices and phone numbers are listed in the appendix of this document.

The advisor will, upon request by the student:

1. guide progress in the major/option chosen within the CFR;
2. offer specific course suggestions for a given semester (see Schedule Preparation/Registration);
3. make referrals to appropriate CFR and University resources for personal counseling, career guidance, or other assistance;
4. provide advice on career objectives and opportunities.

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ADVISOR CHANGE

Changing faculty advisors requires the signature of the student, the prospective advisor, and the Coordinator of the CFR Office of Academic Affairs. Permission to change to another advisor is granted on an individual basis depending on circumstances explained by the student. Students can acquire a Request for Advisor Change form on the CFR web site.

Students may be administratively reassigned for reasons such as advisee/faculty ratio; faculty sabbaticals, faculty turnover, etc. In these cases, students will be notified via e-mail regarding the new faculty advisor assignment before the next pre-registration period begins.

APPLICATION FOR DEGREE

The student must apply for graduation at the beginning of the semester in which he or she expects to graduate through his or her Student Account at the MSU web site following the link to Application for Degree. Students should note the deadline listed in the Academic Calendar. Students must have a finalized graduation audit in the CFR Office of Academic Affairs two semesters before applying for their degree (see Graduation Audit).

CFR students earn a Bachelor of Science degree with one of the following majors: Forestry or Wildlife, Fisheries and Aquaculture. Students should check to ensure his or her option is correct and should indicate a minor if pursuing one.

BIOLOGY MINOR

CFR students are required to take many of the courses in their programs that are required in the Biology Minor. The following table indicates, by option, extra courses students need to earn a Biology Minor. **ALL** WFA WLVM (4-year Pre-Vet) students should declare the Biology Minor. Students pursuing the Biology Minor must notify the Coordinator in the Office of Academic Affairs. Students pursuing a minor must indicate their intention when applying for graduation in Banner.

Additional courses CFR students can take to meet the Biology Minor Requirements:	
Major/Option	Additional courses required
FO WFMG	Cell Biology, Microbiology, Chemistry II and Lab, and Genetics
WFA CLE	Cell Biology, Microbiology, and Genetics
WFA HWC	Cell Biology and Microbiology
WFA WLAC	Cell Biology and Microbiology
WFA WLFS	Cell Biology and Microbiology
WFA WLVM	None. Declare the minor.
WFA PVSF	Cell Biology

CALENDARS

Students can access calendars on the Mississippi State University web site: www.msstate.edu. The Academic Calendar contains important deadlines that students must follow such as deadlines to drop or add classes, to withdraw from classes, to apply for graduation, etc. The Examination Schedule, MSU Calendar of Events, and other calendars are located at the same web site.

CAREER CENTER

Job search assistance and career counseling are provided for students and alumni through the Career Center. Assistance with interviewing, résumé development, career planning, job search seminars, and salary information is available.

CFR students should register with the MSU Career Center as soon as possible upon admittance to a degree program in the College of Forest Resources. Prospective employers continually review résumés on the MSU Career Center web site: <http://www.career.msstate.edu> Career Center personnel maintain office hours in Thompson Hall throughout the academic year. The Career Center is located at 300 Montgomery Hall, 662.325.3344.

In addition, students are encouraged to review the CFR Jobs Database on the web site: www.cfr.msstate.edu.

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edu Students should check their e-mail accounts daily for job announcements as well.

CHANGE OF MAJOR/OPTION

A student changing from one college to another must complete all arrangements for the transfer prior to beginning the new course of study. Before making the change, the student must initiate a Change of Major form in the new major's college. Transfer to a new major is subject to approval by the new college. Change of Majors are processed and approved by the Office of Academic Affairs.

Students changing majors must meet the requirements listed in this handbook and in the MSU Bulletin that is current at the time they make the change.

To initiate a change of major or option within the CFR, a student must complete a Change of Major form and meet admission requirements for the chosen major to which he or she wishes to change. These forms are available in the CFR Student Lounge. Requests for a change in major/option will not be processed two weeks prior to or during the pre-registration process.

CLASS ATTENDANCE

A student assumes responsibility to attend class and complete assignments when he/ she enrolls in a course. When absence from class is essential, the student is responsible to make arrangements satisfactory to the instructor with regard to work missed. These arrangements should be made prior to the absence when possible. Excused absences as identified by the university include: participation in an authorized university activity; death or major illness in the immediate family; illness of a dependent; participation in legal procedures; religious day; illness that is too severe or contagious to attend class; required military duties; and mandatory admission interviews for professional/graduate school. It is the student's responsibility to secure documentation. Medical documentation must contain the date and time the student had treatment. Based upon this, the instructor will decide whether makeup work will be allowed.

Absences become part of the student's file in the Registrar's Office. Instructors may report absences to the Division of Student Affairs at any time they feel it appropriate to do so and are expected to report students with continued consecutive absences. Although instructors are asked to record absences, some place more emphasis on the number of absences permitted than others. Students should strive to attend all classes.

Research at Mississippi State University (McMillen unpublished data) has found a high correlation between class attendance and grade point average (the more absences students have, the lower their GPA).

CLASSIFICATION OF STUDENTS

Mississippi State University classifies students according to the total hours passed as follows:

MSU student classification according to total hours passed:	
Seniors	90 + semester hours
Juniors	60-89 semester hours
Sophomores	30-59 semester hours
Freshmen	29 or less semester hours

The CFR, for purposes of reports and enrollment information, classifies students according to hours applied to programs as follows:

CFR student classification according to total hours applied:	
Seniors	105 + semester hours
Juniors	67-104 semester hours
Sophomores	34-66 semester hours
Freshmen	33 or less semester hours

All majors in the CFR have been designed for completion in four years, or eight semesters (plus one Summer Field Program for Forestry majors). However, students must be aware that failure to schedule and complete full loads (i.e., 15-16 credit hours or more per semester) will result in extra semesters required to complete degree requirements. For example, a student

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scheduling 14 credit hours each semester will require 9 semesters; 12 hours will require 10 semesters.

Most CFR classes are offered once a year or every other year. Students should keep this in mind when planning their program. Failure to enroll in a course, or a pre-requisite/co-requisite, the semester it is offered can delay graduation by a year.

CLEP

College Level Examination Program (CLEP) credit can be applied based on MSU policy. A list of courses for which MSU grants credit by CLEP can be found in the MSU Bulletin. The number of CLEP hours that can be applied to a degree is limited to one quarter of the total number of hours required for a degree.

COMPUTER LABORATORIES

The CFR maintains three computer labs for use by CFR students. They are located in rooms 308 Thompson Hall Annex, 137 Thompson Hall, and in the Franklin Center Room 110. Maintenance costs prohibit use of the labs by students from other majors, unless approved by administration for special circumstances.

A CFR lab account is required to access the computer labs. Your lab account username will be set to your Net ID. A password change is forced upon first login. Passwords must be 8 characters or longer. Instructional material on changing passwords is available at www.its.cfr.msstate.edu/faq.asp. If you have problems logging in, please contact CFR IT Support at the CFR help desk: e-mail - helpdesk@cfr.msstate.edu, phone 325.2140 or stop by Room 139 Thompson Hall.

The a308 and 137 Thompson Hall computer labs are open (except for scheduled class usage times) Monday-Friday, 8:00 am to 5:00 p.m. The Franklin Center computer lab is open Monday-Friday, 8:00 am to 5:00 p.m.

Labs are closed Saturdays, Sundays and University-sanctioned holidays. Student access to Thompson Hall and Franklin Center before 8:00 am and after 5:00

p.m., when it is locked, is selectively provided via a card-reader system (see Access to Thompson Hall).

Students experiencing problems during the work day should contact their instructor who will determine if the problem is usage-related or computer-related. If the problem is computer-related, the student or instructor should contact CFR IT Support at the CFR help desk: e-mail - helpdesk@cfr.msstate.edu, phone 325.2140 or stop by Room 139 Thompson Hall.

Students experiencing problems in a CFR lab outside of the workday should send an e-mail to the CFR help desk: helpdesk@cfr.msstate.edu. It is important that the student also contact the class instructor the next workday to make sure the problem is not usage-related. The e-mail message to the CFR help desk should contain the student's first and last name, Net ID, course and instructor's name, software package being used when the problem occurred, a thorough explanation of the problem, and which lab, computer and/or printer was being used

Other regulations that students must observe in the CFR computer laboratories include:

- Absolutely no software shall be installed on the lab computers without prior approval by the IT Staff. This includes software such as Yahoo Messenger, AOL instant messenger, games and shareware programs. Also, do not download music, pictures or movies to CFR computers. Sharing copyrighted music is illegal, and punishable under the Federal Digital Millennium Copyright Act. When you illegally share music it places you, as an individual as well as the University, in a seriously liable situation. Offenders will be reported to the proper authorities.
- Do not share your CFR lab account username and password. You are accountable for the security of your account.
- Computers and monitors should be turned off before leaving the lab.
- Students must bring their own paper for use in

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the laser printers, staff will not provide paper. The paper must be laser printer quality, as any other kind of paper will damage the printers.

- Notices are posted on lab bulletin boards identifying times and days the labs will be inaccessible due to classes or CFR events.
- Files should be saved to a USB drive. Files are frequently erased from the lab computers.
- Discs and other storage devices/media brought into the lab must be scanned for viruses prior to each use. Suspected viruses should be reported immediately to the CFR help desk.
- Accessing Internet information of a sexually explicit nature is strictly forbidden and will result in disciplinary action by the MSU Dean of Students.
- Food, drink or any form of tobacco is not allowed in the CFR computer laboratories.
- CFR computer labs may experience down times when problems arise. Such downtimes may affect individual lab computers and printers or entire labs and could last for indeterminate periods of time. CFR labs can experience heavy loads throughout the semester. It is the student's responsibility to plan for such occurrences; students are advised to not procrastinate on assignments.

Blatant disregard for the above regulations may result in suspension of computer privileges and/or other disciplinary actions from the MSU Dean of Students.

CONCURRENT ENROLLMENT

Concurrent enrollment (enrollment at MSU and elsewhere during the same semester) requires prior approval and the signatures of the student, advisor, and Coordinator of the Office of Academic Affairs. Students may acquire a Transfer Request form on the CFR web site (see Transfer Credit).

COOPERATIVE EDUCATION

Cooperative Education (Co-op) is a unique learning

opportunity that combines classroom training with practical experience to broaden a student's educational experience. Generally, a student will alternate between school semesters and work semesters. Students gain valuable on-the-job training while progressing academically through their degree programs. With successive work semesters, employers usually increase the student's work responsibilities and performance expectations. Work experienced through the Co-op program is rated highly by prospective employers.

Students must complete a minimum of one year at MSU and establish at least a 2.50 GPA before entering the Cooperative Education program. However, most forestry employers prefer students who have completed the forestry Summer Field Program. Students are expected to complete a minimum of three work semesters. Students can transfer one semester of Co-op from a community college toward the three semesters required. Co-op credit hours are not used to satisfy degree requirements. Contact the Cooperative Education Office, 335 McCain Engineering Building, 662.325.3823, or visit: <http://www.coop.msstate.edu>.

CORE COURSES, DEPARTMENT/MAJOR

The academic departments define their major and option courses. Refer to the respective CFR Department for specific policies regarding core courses (see Section II: Department-Specific Policies).

Transfer credits (see Transfer Credit) that are equivalent and are applied to the major and to the option core requirements, as defined by the department, are included in the department's core GPA.

COUNSELING AND TESTING SERVICES

The Counseling Center offers personal, group, family and career counseling to students regarding personal concerns, study skills, interpersonal skills, and career choices. The Center also offers crisis intervention 24 hours per day, seven days per week. After hours, counselors may be reached by contacting the

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University Police. Counseling Center services are free and confidential. Counseling Center is located at 101 Lee Hall, 662.325.2091, or visit: <http://www.msstate.edu/dept/cts>

COURSE LOAD

The number of hours that a student can take in a semester is based on their MSU GPA. Students on probation are limited to 14 hours; students with a GPA between 2.00 and 2.99 are limited to 19 hours; students with a GPA between 3.00 and 4.0 may take up to 24 hours with permission from their Advisor and the CFR Associate Dean.

COURSE NUMBERING

All course numbers consist of four digits, of which the first (left) digit indicates the level of preparation required (1=Freshmen; 2=Sophomore; 3=Junior; 4=Senior) and the fourth (right) digit indicates the number of semester hours. For instance, WFA 4353 is a senior-level course worth 3 semester hours.

CURRICULUM/CATALOG LIFE

Freshmen follow their major's curriculum (including course requirements, policies, and procedures) that is in place the year they first enroll at MSU provided they graduate within seven years. The 2010-11 CFR Handbook is for students entering MSU as freshmen or transfers during the Fall 2010 or Spring 2011 semester. There is a seven year limit on the completion time for undergraduate students at MSU.

On-campus transfer students from MSU or from another major within the CFR are required, by MSU policy, to follow the curriculum in place the year the student changes to the new major. Students, in consultation with their faculty advisor, may move to a newer curriculum (including that year's policies and procedures in addition to the newer course requirements); but can not move to an older curriculum. Students wishing to move forward in curriculum years must process a Request to Change Curriculum Year Form in the CFR Office of Academic Affairs, 129 Thompson Hall.

Curricula examples and CFR Undergraduate Handbooks are on the CFR web site. If a WFA student stops out (not continuously enrolled in back to back semesters) and returns to college within one year, the student may follow their original curriculum year. If the student returns after more than one year of absence, then the student must move forward to the newest curriculum. In conjunction with MSU policy, if a FO student interrupts his/her enrollment at MSU for two consecutive years or longer, the graduation requirements stated in the catalog under which the student resumes enrollment apply.

DIRECTED INDIVIDUAL STUDY

Request for Directed Individual Study (DIS) forms are available on the CFR web site. The title, justification, description, and applicability of the course must be provided. Once all appropriate signatures are secured, the student should submit the DIS form to the Coordinator in the CFR Office of Academic Affairs.

The Office of Academic Affairs will create the course in the registration system. After the course has been created, the student will register himself/herself in the course and report back to the Office of Academic Affairs for confirmation. Refer to the respective CFR Department for department-specific policies regarding Directed Individual Study (see Section II: Department-Specific Policies).

DISABILITIES, ACADEMIC ACCOMMODATIONS FOR STUDENTS WITH

Students with disabilities must register with the MSU Student Support Services office in order to receive academic accommodations. Current documentation verifying the disability must be on file in this office. Guidelines are detailed at www.msstate.edu/dept/audit/91130.html Students are responsible for notifying instructors of their accommodation needs.

FINAL EXAMINATION POLICY

The first day of the exam schedule is Reading Day to allow students time to prepare for exams. No mandatory assignment, meeting, or event for a class

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should be scheduled on Reading Day. All exams shall be held as specified on the exam schedule (found on the Mississippi State University web site: www.msstate.edu). Classes meeting fewer than two hours a week and laboratories will have their exams at the last regular meeting of the class. Evening classes will have their exams at the regular meeting hour of the class during the examination period

Students having more than two final exams in one day should contact all instructors to determine if one of the exams can be rescheduled. If no instructor is willing to reschedule a final exam, the student can contact the Office of the Provost to resolve the problem.

FIREARMS ON CAMPUS

The University prohibits the possession of any firearm, ammunition, any type of explosive, other weapon, firecracker, or the like on university-controlled property. Students found in possession of such may be suspended immediately pending a disciplinary hearing.

GIS CERTIFICATE PROGRAM

With recent launches of remote sensing satellites, and the development of aerial remote sensing instruments that provide advanced spectral and radar technologies, operational remote sensing applications can impact the management of resources. Education in geospatial and remote sensing technologies is by nature multi-disciplinary; therefore, a certificate program crossing departments and colleges has been developed. Students choose which courses within their academic program can be used for the certificate program.

For a list of courses, visit http://www.gri.msstate.edu/resources/certificate_program.html

GRADE POINT AVERAGE

Grade Point Average (GPA) is calculated by dividing the total number of quality points earned by the total number of GPA hours. See the Graduation Requirements section for GPAs necessary for

graduation. Quality points are based on a four-point system and are awarded as follows: A = 4, B = 3, C = 2, D = 1 and F = 0.

Example GPA Calculation				
		GPA Hours X Quality Points = Quality Points Earned		
		GPA Hours	Quality Points	Quality Points Earned
CO1003	C	3	2	6
CH1043	C	3	2	6
EN1113	B	3	3	9
FO1101	B	1	3	3
MA1313	A	3	4	12
Total		13		36
GPA = Total Quality Points Earned ÷ Total GPA Hours, e.g., GPA = 36 ÷ 13 = 2.77				

Each department has its own rules for calculating major core GPA. Refer to the respective department for department-specific policies regarding GPA (see Section II: Department-Specific Policies).

GRADUATE SCHOOL

Students interested in graduate school should contact the department that houses the graduate degree program they are interested in for more information on graduate admission and requirements.

GRADUATION AUDIT

Students should initiate a graduation audit with the CFR Office of Academic Affairs two semesters prior to the expected graduation semester. For example, if a student intends to graduate in the spring, he or she should complete his or her audit before the preceding Fall semester. An appointment with the Coordinator of the CFR Office of Academic Affairs is required. The student's faculty advisor is sent a copy of the final

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audit. A graduation audit ensures that all degree requirements will be met.

The student applies for graduation through their BANNER account before the deadline posted in the Academic Calendar. By midterm of the graduating semester, the student must have all of their MSU accounts paid in full.

The graduation application fee is \$50 for the first deadline, \$100 for the second deadline, and \$250 for the last deadline.

GRADUATION REQUIREMENTS

To earn the Bachelor of Science degree in the CFR, students must successfully meet the following criteria and steps:

1. Complete all course requirements for the selected major and option
2. Earn at least one half of the total hours required for the degree at a senior college
3. Complete from MSU $\frac{1}{4}$ of degree requirements in junior/senior courses (numbered 3000 through 5000)
4. Complete the last 32 hours that is applied to the degree at MSU
5. Earn at least a 2.00 grade point average in the following:
 - Cumulative hours attempted
 - MSU hours attempted
 - Major/option core hours as defined by each department
6. Complete a graduation audit two semesters prior to graduation (see Graduation Audit)
7. Apply for graduation (See Graduation Audit) before the deadline.

Academic departments may have additional graduation requirements. See Section II, Department Requirements.

HOLD

Pre-registration and registration privileges are unavailable if a student is on hold. A student may be on hold for various reasons: unpaid traffic tickets,

unpaid university bills, failure to return Summer Field Program equipment, etc. Once the hold is taken care of, registration privileges are reinstated.

HONOR CODE, College of Forest Resources

Student organizations in the CFR have adopted an honor code for conduct. Each student is expected to uphold this code:

"I WILL NOT CHEAT OR TOLERATE ANYONE WHO DOES."

The purpose of this code of ethics is to promote and further the honor, integrity, and character of the students of the CFR at MSU. The establishment and maintenance of high standards of conduct and behavior for the students are highly desirable and will lead to the development of mutual confidence and respect among fellow students and the faculty. Achievement of this relationship will enable faculty to give their maximum service to the students.

This code cannot begin to cover all of the diverse circumstances and variables which may occur when attempting to apply the code to everyday situations. Instead, it is proposed that the code be used as a guideline, a motivator by whose influence or "spirit" the student body willfully abides.

This code is the students' code, and it is their responsibility to maintain it and to respect its purpose. The faculty will be charged with the enforcement of University policy for offenders and creation of an atmosphere conducive to achieving the goals of the code. For the code to be effective, each faculty member will make the code available to his or her students and explain how it applies to problems unique to that class in regard to tests, reports, and homework.

HONOR CODE, Mississippi State University

Mississippi State University adopted in 2008 an Honor Code for students: Taken from the MSU web site at <http://students.msstate.edu/honorcode>. "Mississippi State University is dedicated to the discovery,

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development, communication and application of knowledge in a wide range of academic and professional fields and assumes as its historic trust the maintenance of freedom of inquiry and an intellectual environment nurturing the human mind and spirit. The MSU Honor Code is critical to these ideals, to the goal of assuming a place of preeminence in higher education, and to the development of the whole student.” Students can expect to see the following statement in every class, and will be asked to accept this code:

“As a Mississippi State University student I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do.”

For more information, for definitions of academic misconduct, academic dishonesty sanctions, and procedures pertaining to this Honor Code, visit <http://students.msstate.edu/honorcode>.

JOB DATABASE

The Jobs Database on the CFR web site, www.cfr.msstate.edu contains professional employment, part-time employment, student worker positions, graduate assistantships, summer employment, and internship opportunities. External opportunities are posted as well as in state and on campus positions. Students are encouraged to check this site often.

LEARNING CENTER

The Learning Center (TLC) helps students improve their academic performance. TLC offers both credit courses and non-credit services to all students. TLC provides assistance to students in a variety of areas, including grammar, study methods, spelling, writing research papers, reading, mathematics, science, statistics, chemistry, physics, and preparation for professional examinations. MSU statistics show that students with good academic standing are frequent visitors to TLC. The CFR recommends that students take advantage of the free services available. For more information, contact The Learning Center, 267 Allen

Hall, 662.325.2957. (see Math Domain and Writing Center for more assistance)

MATH DOMAIN

The Math Domain features nearly 100 computers where MSU students can complete class assignments, take quizzes and tests, receive mathematics’ tutoring, and homework assistance. MSU students enrolled in intermediate algebra, college algebra, and business calculus may visit the Math Domain in Room 111 Allen Hall.

MINORS

A minor in Forest Products is available to other majors across campus. Minors are not offered through the Forestry and Wildlife, Fisheries and Aquaculture departments. Minors to complement CFR degree programs are available to CFR students through other colleges at MSU. These minors include, but are not limited to, Agribusiness, Agriculture Economics, Biology, Communication, Economics, Environmental Science, General Business, Geology, and Leadership Studies. All WFA students following the four year Pre-Vet option should declare the Biology Minor. See Biology Minor in the General Information section of this handbook for requirements. Students pursuing a minor should indicate their intention when applying for graduation in Banner. For more information about minors, a student should contact his or her advisor, the department offering the minor, or the CFR Office of Academic Affairs.

NON-DISCRIMINATION

Mississippi State University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation or group affiliation, age, disability, or veteran status.

The Affirmative Action/Equal Opportunity Officer, 662.325.2493, has been designated as the responsible employee to coordinate efforts to carry out responsibilities and make investigation of complaints relating to discrimination in conformity with Title IX of the Education Amendments of 1972, Sections 503

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and 504 of the Rehabilitation Act of 1974 and the Americans with Disabilities Act of 1990.

OVERRIDES: CLOSED SECTION OF COURSES/ COURSE CONFLICTS

Permission to enroll in a closed section of a CFR course or override a conflict between two courses requires the signature of the instructor(s) and approval of the department offering the course. Forms are available in the CFR Student Lounge. Students seeking permission to enroll in a closed course offered in another college must seek approval from that college. Overrides are only granted with permission of the instructor and if classroom space is available.

POLICE DEPARTMENT

The MSU Police Department is a full-service agency that is available 24 hours a day throughout the year. The MSU Police Department works toward building partnerships with the University community to provide a safer environment with such programs and services as Cops-on-Bikes, Resident Hall Adopt-A-Cop, Operation Identification, R.A.D. Program, Community Police Officers, Bully Patrol, and Library Patrol. The Police Department may be contacted at 662.325.2121 for information or requests for services: <http://www.msstate.edu/dept/police>.

The MSU Police Department is also responsible for the management of the University's Parking Program through the registration of vehicles and enforcement of parking rules and regulations. Motorists may contact the Parking Division at 662.325.2665 with questions about parking permits, rules or parking arrangements. Anyone wishing to register his or her vehicle may do so on-line by logging into their student Banner account and linking to Vehicle Registration.

PRE-REQUISITES/CO-REQUISITES

Some courses require that another course be taken prior to them (pre-requisite) or concurrent with them (co-requisite). A pre-requisite is meant to convey the minimum amount of background, in terms of academic knowledge or class standing, needed to

successfully complete a given course. A co-requisite is meant to be taken at the same time as the course for which it is listed because of the complementary nature of the course material.

It is the student's responsibility to be aware of pre-requisites and co-requisites for all courses required in his or her program; pre-requisite/co-requisite courses are identified in the MSU Bulletin's Description of Courses section and in the back of this handbook.

A student may not enroll in a course that lists co-requisites unless he or she is concurrently enrolled in that co-requisite, or he or she has previously passed the co-requisite. A student may not drop a co-requisite during the drop/add period at the beginning of the semester without also dropping the course for which it is a co-requisite.

Any student attempting to enroll in a course for which he or she has: (1) not successfully completed the necessary pre-requisites; or (2) not enrolled in or previously completed the necessary co-requisite will be force-dropped from the class.

In the CFR, pre-requisites/co-requisites are enforced at the departmental level on an individual basis. A student seeking to waive a pre-requisite/co-requisite should discuss this possibility with his or her instructor and, pending instructor authorization, should complete a Request for Pre-Requisite/Co-Requisite Waiver form available on the CFR web site. The process requires the signatures of the student, instructor, departmental undergraduate coordinator, and department head. Most CFR classes are offered once a year. This should be considered when making schedule changes. Failure to enroll in a course, or a pre-requisite/co-requisite, the semester it is offered can delay graduation by a year.

PROFESSIONALISM

Students will exhibit professional behavior and conduct at all times. Non-professional behavior will not be tolerated by the faculty, staff, or students. The

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CFR Honor Code, the professional society Code of Ethics (e.g., Society of American Foresters, The Wildlife Society, American Fisheries Society, Society of Wood Science and Technology), and common courtesy should be the guiding principles for the personal conduct of students in the CFR.

The success of a professional can be positively or negatively affected by the personal conduct and behavior of the individual. As a student continues to pursue a degree in the CFR, progress as a professional will not be judged solely on technical skills in completing educational assignments or knowledge during examinations. Conduct during these activities will greatly affect treatment as a person and a professional by peers, educators, and employers.

To be a successful professional and a respected member of the community, one must apply the acquired skills of the professional in a way that is acceptable and beneficial to society. Thus, a personal code of conduct is as important to a professional as one's administrative and technical abilities.

PROFESSIONAL EXPERIENCE

Students are encouraged to gain professional experience through part time employment, summer employment, internships, etc... Professional Experience is defined as any job (paid or volunteer) with a company, agency, organization, or person(s) in which you performed duties pertaining to your major and profession and which provided you experience and learning outside the classroom.

If you are uncertain whether or not your work can be deemed professional experience, discuss your specific duties with your advisor to make an accurate determination. Students are asked to provide information about their experience each fall by submitting a resume to the Office of Academic Affairs.

READING ROOM, GEORGE L. SWITZER

The purpose of the George L. Switzer Reading

Room (135 TH Hall) is to encourage scholarship and awareness of current affairs in the natural resources by providing a quiet environment with access to selected resources. The Reading Room is not intended to serve as a mini-library or to replace Mitchell Library.

Materials in the Reading Room include issues of professional and scientific journals donated by faculty, students, and staff members; CFR theses and dissertations; donated books; historical/archival items, such as those related to Dr. Switzer's work in forest resources.

Students may check out material for a maximum of two hours by leaving their MSU ID or driver's license and completing a checkout sheet for each item being removed. To preserve free use of the Reading Room, student cooperation in returning materials in a timely manner is essential. Failure to do so will result in a hold on the student's record.

READMISSION REQUIREMENT

Students applying for readmission that meet MSU readmission requirements and have a 2.00 or better GPA will be admitted into the CFR degree programs. Students should see Curriculum/Catalog Life to determine the proper curriculum year to follow. Students with less than a 2.00 GPA will not be admitted to the Departments of Forestry or Wildlife, Fisheries and Aquaculture programs.

RESIDENCY REQUIREMENT

The last 32 hours of coursework must be taken in residence at Mississippi State University. Students must also complete in residence at MSU no less than ¼ of his/her degree program in junior and senior subjects (courses numbered 3000 through 5000) (see Transfer of Credit).

SCHEDULE CHANGES

A student may **add** a class through the sixth class day of a fall or spring semester (second class day of a five week summer session), as long as seats are available, by using Banner Web (refer to the Academic Calendar

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for specific dates). Late adds after the sixth day must be approved. Students may complete a Drop/Add form, secure signatures of the instructor, the student's advisor, and the Associate Dean or the Academic Coordinator in the CFR Office of Academic Affairs. In addition, the student must secure signatures on a Student Registration Status available on the Banner web system located under the Student Records menu and accessible by the student. Students must have a clear registration status to have a late add approved. Students are **not eligible to register if holds prevented** them from registering during the semester's late registration period. The student will be charged a registration change fee.

A student may drop a course up to and including the 5th day of classes during the fall or spring semester (first class day of a five week summer session). The last date to drop a course without a grade can be found in the Academic Calendar on Banner. Students may elect to drop a course from the 6th to the 30th class day. If dropping a FO, FP, or WFA course, the professor/instructor, the student's advisor and the Academic Coordinator in the CFR Office of Academic Affairs must approve this drop.

If dropping a course taught outside of the College of Forest Resources, the advisor and the Associate Dean or Academic Coordinator in the CFR Academic Affairs Office must sign the form. A grade of "W" will be assigned on the student's transcript and a fee per course will assessed.

After the 30th day into the semester, students cannot drop a course, except in cases of special circumstances such as accident, illness, or failure of the instructor to provide significant assessment of his/her performance.

Requests for such course drops must be documented in writing and should be directed to the CFR Associate Dean. A student will not be permitted to drop a course after the 30th day of classes because of a heavy

course load, a change of major, a repeated course, or the likelihood of poor grades.

Instructors are expected to provide students with test grades within the first thirty days of the semester.

Most CFR classes are offered once a year or every other year. This should be considered when making schedule changes. Failure to enroll in a course, or a pre-requisite/co-requisite, the semester it is offered can delay graduation by up to a year or two.

SCHEDULE PREPARATION/ PRE-REGISTRATION

During each semester, time is scheduled for advising and pre-registration for the following term. Pre-registration dates are published in the Academic Calendar. Students should be aware of these dates at all times. Every student who plans to return to MSU the next semester should pre-register and should attend one of two Student Registration Meetings held in Tully Auditorium prior to the advising period.

Steps in pre-registration are:

1. During the week before pre-registration, students schedule an appointment with their advisor by signing an appointment sheet posted on the advisor's office door. A list of CFR advisors is posted in the CFR Student Lounge. Students who fail to make an appointment with their advisor for pre-registration during the week set aside in the MSU Academic Calendar may be prevented from pre-registering at their assigned time.
2. Before meeting with an advisor, students must prepare a trial schedule using their OASIS curriculum sheet. Trial schedule templates are available in the CFR Student Lounge. Pre-requisite/co-requisite courses should be checked before scheduling courses.
3. Students can secure their OASIS curriculum sheet at one of the two CFR Student Registration Meetings prior to the advising

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period. These meetings are announced via MSU e-mail. Curriculums, enrollment forms, instructions, etc... will be given to students at these meetings. Students must attend one of these meetings.

4. The student meets with the advisor at the appointed time. The advisor approves the student's schedule and both the advisor and student sign the enrollment form indicating agreement. Advisor and student also sign the Advisor Session form. The Advisor then provides the student with a RAC number. Advisors return a copy of the enrollment form and the advising session forms to the Office of Academic Affairs. Students add the approved schedule by logging into their Banner account and following the menu to Register For Classes.

In preparing a schedule, the following materials should be used:

1. The CFR Undergraduate Handbook for the academic year of the curriculum being followed for degree requirements and policies. Students should bring their CFR Undergraduate Handbook to advising appointments.
2. The MSU Bulletin for information not found in the CFR Undergraduate Handbook.
3. The listing of all courses being offered by the University for a particular semester is available through the student's Banner account on the MSU web site and following the Master Schedule link.

SCHOLARSHIPS

A number of competitive scholarships are offered each year by both the University and the CFR. CFR scholarships are available to students who meet the requirements and criteria as stated in the guidelines for each scholarship. (Note: Many scholarships are based on student classification.)

CFR scholarships are awarded annually and are not automatically renewable. Students must apply each

year for consideration by April 1 in the CFR Office of Academic Affairs.

CFR students participating in Cooperative Education are eligible to receive scholarships during the summer immediately following a Spring Co-op semester. To be eligible for scholarship monies for the summer that immediately follows a spring Co-op semester, the student must be enrolled on a full-time basis (12 or more hours) during that summer. The Academic Coordinator in the CFR Office of Academic Affairs must approve this type of award before the beginning of the summer term in which the student is enrolled.

There are numerous external scholarships available. Announcements from external organizations are posted in the Student Lounge, 131 Thompson Hall. The Office of Academic Affairs can identify students that meet scholarship requirements and will notify these students through e-mail.

STUDENT CONDUCT

Students are expected to conduct themselves as adults and obey the laws, rules, and regulations of the University. Students must take personal responsibility for their conduct and must respect the rights of others. Students not adhering to these expectations are subject to expulsion from the University.

Aspects of misconduct which are unacceptable include, but are not limited to, cheating; destruction or damage to property; hazing, possession of firearms, alcohol, or controlled substances on University property; disorderly conduct while on campus or at an official University function; failure to pay fees; and any violation of civil or criminal ordinances or laws.

Also, inappropriate are acts of discrimination or harassment. Such acts intimidate, assault the dignity of, humiliate or embarrass members of the student body. Such acts cause deterioration of the learning environment and will not be tolerated.

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SUBSTITUTION OF COURSES

Required courses for professional curricula are established after careful consideration by the faculty. Often, portions of the curricula are dictated by professional societies or accrediting agencies. Therefore, substitution is generally not in the best interest of the student. However, a course may be substituted for a required course or professional elective provided the substitution can be justified to the satisfaction of the student's advisor, the department's undergraduate program coordinator, the department head, and the Associate Dean. Justification to substitute requires: (1) a legitimate reason and (2) a logical substitution.

Legitimate reasons for requesting a course substitution include the CFR's failure to teach a required course the semester it is scheduled or conflicts due to CFR scheduling errors. Course substitutions are not granted to resolve scheduling conflicts which occur because the student has failed a class, dropped a scheduled course, neglected to schedule appropriate courses as advised, lacks a pre-requisite, or the student is not pursuing education on a full-time basis. Part-time students, including Co-op students, must accept responsibility for schedule conflicts. Students may acquire a Request for Substitution form on the CFR web site. The course substitution process requires the signatures of the student, advisor, department's undergraduate program coordinator, department head, and CFR Associate Dean.

TOBACCO ON CAMPUS

Tobacco use in any form is prohibited in university facilities and vehicles.

TRANSFER CREDIT

Students who transfer to MSU from accredited institutions must submit an official transcript to the MSU Admission's Office from each institution attended. Different curricula have different course requirements. Thus, courses accepted by the University may not apply to all college degree programs. Applicability of

transfer work depends upon the equivalence of transfer credits to the requirements of a particular curriculum. Applicability is determined by the University, the CFR, and the departments.

Application of community college work is limited to no more than one-half of the total requirements for graduation in a given curriculum at MSU. Once the student is within 32 hours of graduation, no further transfer credits will be accepted (see Residency Requirement). Technical courses are not automatically accepted in the CFR. Each department has a community college transfer guide for most community colleges in Mississippi identifying technical courses that are equivalent to CFR courses. Only transfer course work with a grade of C or higher will be applied to CFR programs (see Concurrent Enrollment).

WETLAND SCIENTIST CERTIFICATION

The Society of Wetland Scientists promotes the management and sustainable use of wetlands. This program is intended to meet the needs of professional ecologists, hydrologists, educators, consultants, and others who practice wetland science. The Society supports education, public awareness, and stewardship of wetlands. Wetland Scientists Professional Certification recognizes the professional in wetland science internationally and provides an advantage when applying for employment. More information and the application for certification can be found at www.wetlandcert.org. Students interested in certification are encouraged to join the Society of Wetland Scientists.

WILDLIFE CERTIFICATION

Certification in the Wildlife Society promotes education, training, and the ethical behavior of wildlife professionals. A higher set of standards for the Certified Wildlife Biologist is required and recognized providing an advantage when applying for employment. Application reviews are conducted by a peer Review Board comprised of wildlife professionals. More information and the application

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for certification can be found at <http://joomla.wildlife.org>. Students interested in certification are encouraged to join the Wildlife Society and to apply immediately upon graduation as there is a significant difference in application fees.

WITHDRAWAL FROM THE UNIVERSITY

Any student who leaves the University before completion of the academic period in which he or she is enrolled must initiate withdrawal procedures. No withdrawals will be allowed during the last two weeks prior to the beginning of final examinations. Consult the Academic Calendar on the MSU Web site for official deadlines for withdrawing.

Most students who leave the University before the end of a term do so under stressful conditions. The required procedure for withdrawal from the University may seem insignificant at the time. However, it takes little effort and may prevent future difficulties for the student in obtaining transcripts or re-entering the University. Completing the required withdrawal process also prevents F grades from being automatically recorded by the University for all courses the student was enrolled in during the semester.

CFR students should complete the MSU Official Withdrawal form available in the CFR Office of Academic Affairs. It is the student's responsibility to be aware of the ramifications of withdrawing. Examples include, but are not limited to, being required to pay back financial aid (grants, scholarships, or student loans) and other debts the student may have (e.g., resident housing charges; unsettled tuition fees; outstanding parking tickets; telephone charges; library accounts).

The withdrawal refund schedule can be found in the Academic Calendar on Banner Web. Students can access this schedule on their Banner Web User Login page.

WRITING CENTER

The Department of English operates a Writing Center in Room 200 Lee Hall. At no expense, students may use computers to access grammar and usage resources, as well as talk face-to-face with staff about writing projects. Students at all skill levels can visit the Writing Center at any stage in the writing process. The Writing Center is staffed by students earning their MA in English.

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DEPARTMENT OF FOREST PRODUCTS (FP)

Dr. Rubin Shmulsky, Department Head
203 Franklin Center

The forest products industry is one of the largest economic contributors to Mississippi, as well as in the United States. Employment in the furniture, lumber, wood products, composites, and paper sectors of the economy far exceeds the employment of any other manufacturing sector in the state. Mississippi's forest products industry recognizes the need for well-trained employees to help increase the conversion efficiencies and alter manufacturing processes to allow compatibility with a changing raw material base. While the industry is large in terms of employment, value-added processing facilities number only a few thousand nationwide and a few hundred in Mississippi.

The mission of the Department of Forest Products is to enhance the intellectual, cultural, social, and professional development of its students by providing them with knowledge and skills needed to utilize and conserve diverse forest resources effectively. In this regard, the Department's primary teaching responsibility is to provide high quality educational opportunities necessary to adequately prepare students for professional and scientific careers in forest products and wood science.

New admissions have been suspended. Students interested in a forest products curriculum are now directed to the Forest Products Option within the Forestry Major. Students enrolled in this option will

be advised for academic and career-related issues by members of both the Forest Products and Forestry faculty.

The Department of Forest Products' physical plant consists of five laboratory/office buildings and other special purpose buildings and the Franklin Center for Furniture Manufacturing and Management, with a combined floor space in excess of 90,000 square feet. These buildings house the analytical and testing equipment, pilot plants, and support facilities required for a comprehensive research program involving wood and wood products.

FOREST PRODUCTS MINOR

A Forest Products minor is available to non-majors to provide students with the knowledge of wood, wood products, their use, and importance to employers in many areas including construction, design, marketing and distributing, retail and wholesale management, sales, production, technical services, and scientific fields such as chemistry, engineering and industrial technology. A minor in Forest Products will also provide non-major students an excellent background for entering a graduate degree program in Forest Products. Academic advising is available in the Department of Forest Products located at 100 Blackjack Road. A total of 18 hours is required to obtain a Forest Products minor.

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DEPARTMENT OF FORESTRY (FO)

Dr. Andrew Ezell, Department Head
105 Thompson Hall

The forestry major is a science-based program leading to a Bachelor of Science degree in Forestry and consists of five options; Environmental Conservation, Forest Management, Forest Products, Urban Forestry, and the Wildlife Management Option. With the exception of the newly created Forest Products option, all options are accredited by the Society of American Foresters (SAF). By combining a general education with specialized professional courses, the curriculum is designed to produce graduates who have skills in interpersonal communications, written and oral communications, and cultural understanding.

Graduates are fully qualified as entry-level professionals and prepared for career advancement into positions of responsibility, while serving the current and future needs of society. The forestry major also prepares students for graduate school in any natural resource-related field. All undergraduates can take an exam in their senior year to become Registered Foresters in the state of Mississippi.

PROFESSIONAL EXPECTATIONS FOR STUDENTS IN THE FORESTRY PROGRAM

Forestry is a profession, and foresters are expected to conduct themselves as professionals beginning with their education. Behaviors and habits developed now will carry over and affect your career progress. Forestry is more than trees; working with people is an important element of your successful career. You will interact with people from all walks of life, in all manner of ways. Respecting others, being aware of how your behavior affects them, and the impression you are conveying is crucial to your professional development. Your demeanor and actions reflect on you and Mississippi State University, the College of Forest Resources and the Department of Forestry, our faculty, and the student body. Therefore, you should conduct yourself appropriately with regard to conduct, appearance, and respect for others.

The Department of Forestry has collectively agreed on a set of expectations and consequences for students relative to behavior and habits to apply in classes, within Thompson Hall, on buses and vans, and during indoor and outdoors laboratories, which include trips to industrial plants, field and industrial operations, and field sites.

FORESTRY OPTIONS

Students must complete a specified core curriculum and one of five academic options within the major:

1. Environmental Conservation
2. Forest Management
3. Forest Products
4. Urban Forestry
5. Wildlife Management

Environmental Conservation — Today's forestry professionals strive to balance commodity production with environmental conservation. This option is designed for students interested in focusing on complex environmental issues in the realm of natural resource management. While being educated as foresters, students concentrate on contemporary environmental concerns within three emphasis areas: social, land, and science.

Forest Management — Designed for students who intend to pursue professional careers in forest land and timber management and use in both public and private sectors. Students may select from a wide range of electives to meet specific career objectives; for example, emphasis in areas such as business, communications, and geographical information systems in forestry and related sciences.

Forest Products — The use of wood as a material requires a fundamental understanding of wood properties, manufacturing processes, and the marketing of wood products. Students are prepared

SECTION II: DEPARTMENTS AND THEIR SPECIFIC POLICIES

for positions in wood manufacturing, marketing, and research. Employers include lumber, pulp, and paper mills, furniture manufacturers, and retail marketers of wood materials.

Urban Forestry — Addresses an emerging need for the management of trees in towns and cities, and the urban/wildland interface. Urban and community foresters manage trees along city streets, in municipal parks, private woodlots, and utility right-of-ways. Employers include federal, state, and municipal governments, private consultants, and industry.

Wildlife Management — Designed for students interested in careers that emphasize wildlife management within the context of multiple-use management of forest land. The option fulfills the course requirements for certification as wildlife biologists by The Wildlife Society. Many graduates of this option undertake graduate studies in wildlife biology and related areas to qualify for entry-level positions as wildlife biologists.

FORESTRY ACADEMIC POLICIES AND PROGRAMS

FO Major Core Courses

The following are core course in the FO major:
FO 1101, FO 2113, FO 2213, FO 3012, FO 3015, FO 3101, FO 3102, FO 4113, FO 4123, FO 4213, FO 4221, FO 4223, FO 4231, FO 4233, FO 4313, FO 4323, FO 4413, FO 4423, WFA 3031, and WFA 4153. Grades of C or better are required in these courses.

FO Major Requirements

- The **computer requirement** for FO majors is FO 3102/3101. No exceptions are allowed.
- The **survey course** requirement is FO 1101. Students who change from the WFA major to the FO major and who have taken WFA 1102 may apply this course for FO 1101.
- FO options requiring a **forestry law course** must take FO 4353. Wildlife and Fisheries Policy and Law Enforcement (WFA 4353) cannot be substituted.

FO Major Core Course Performance Requirements

Students may not apply courses with a grade of D to their FO major core requirements. Only course work with a grade of C or higher will be applied to the FO major core. FO major courses are identified above.

An appeal of the C requirement for core can only be initiated if a student earned a D in a core course. A grade of F can not be appealed. If a student wants to

contest the C grade policy, the student must initiate the appeal with a signed letter to the Department Head explaining the reasons for the appeal. A cover form is available on the CFR web page under Current Students. The cover form must be attached to the petition letter. Include at the bottom of the letter a signature line for the instructor, the student's advisor, and the department head with a check box for each indicating agreement or disagreement. Once this letter is received, the Department Head will meet with the student, the student's advisor, and the instructor. Upon making a decision, the Department Head will notify the Office of Academic Affairs, the student, the student's advisor, and the instructor of the decision. A copy of the letter and any other documentation will be kept on file in the Department Head's office and in the student's file in the Office of Academic Affairs. A waiver to the C or better policy may be granted in cases in which there were extenuating circumstances.

FO Major Core GPA Calculations

Grades of D and F will not be calculated in the FO Major Core GPA. A student must retake a FO core course (see list above) in which he or she receives a grade of D or F.

Correspondence Courses

Correspondence courses (Independent Study) are not applied in the FO major.

SECTION II: DEPARTMENTS AND THEIR SPECIFIC POLICIES

FORESTRY ACADEMIC POLICIES AND PROGRAMS

Distance Learning Courses

Distance learning courses (online) offered by an accredited college or university will be evaluated similarly to accepted transfer courses. Distance learning courses at MSU may be applied to the Forestry major in consultation with the student's advisor.

In addition, questionable distance learning courses offered through another accredited college or university for credit will be evaluated for equivalency at MSU after the student provides a course syllabus and proof that the course is part of a degree program at the institution granting a letter grade. The CFR Office of Academic Affairs in consultation with the Department's Undergraduate Coordinator will review the course or courses for applicability toward a forestry degree at MSU.

Continuing Education credits cannot apply toward a degree. Articulation agreements with community colleges are still in place and have not changed.

Directed Individual Study Courses

Directed Individual Study (DIS) courses can be applied to the FO major as a professional elective with prior approval. DIS courses may not be used as substitutes for FO major core courses. The approval process **requires** completion of the DIS form available on the CFR Web site and must have the signatures of the student, the instructor, the student's advisor, the undergraduate coordinator, the department head(s) of the instructor and the student, and the CFR Associate Dean. Once approved, the DIS Form must be on file in the Office of Academic Affairs.

Internships

Forestry majors have an opportunity to satisfy one 3-hour elective with an internship experience (FO 3003). Students may apply for any number of internships for credit during their undergraduate years; however, only one elective course substitution will be allowed. The purpose of the internship is

that it is critical that students have the opportunity to more actively participate in forestry or natural resource-related activities associated with his or her intended career above and beyond laboratory work. A student, junior standing or above, majoring in the Forestry undergraduate program with at least one elective available (i.e., professional, business/science, emphasis) may apply for an internship. For students in the Wildlife Management Option this does not include using the professional elective set aside for wildlife biologist certification requirements. Note, students can always add three internship hours to their program during any semester to incorporate an internship opportunity. Summer work opportunities will require that the student enroll for the internship course in the fall. Full semester internships will only be eligible for three hours, given that other requirements are met. See Dr. Ian A. Munn, 349 Thompson Hall, 662-325-4546, 662.325.4546 before the beginning of the internship.

Professional Electives

Only courses designated as professional electives in the example curricula for each FO option can be applied as professional electives toward the FO major.

Special Topics Courses

Special Topics courses can be substituted for professional electives in the FO major with prior approval. Special Topics courses may not be used as substitutes for FO major core courses. The approval process **requires** completion of the Substitution Form available on the CFR Web site and must have the signatures of the student, the student's advisor, the undergraduate coordinator, the department head of the student, and the CFR Associate Dean. The title, justification of the course substitution, course description, and course applicability must be provided. Once approved, the Substitution Form must be on file in the Office of Academic Affairs.

SECTION II: DEPARTMENTS AND THEIR SPECIFIC POLICIES

FORESTRY ACADEMIC POLICIES AND PROGRAMS

Student Leadership Recognition Program

The purpose of the leadership program is to introduce students to activities offered by the Department, the CFR, and beyond to stimulate them to voluntarily participate and to recognize the importance of participating. This recognition of being a student leader and one who is active in extra curricular activities is a worthy addition to student resumes. Interested students should see Dr. Stephen C. Grado, Room 357 Thompson Hall, 662-325-2792.

Transfer Credit

Only transfer course work with a grade of C or higher will be applied to the FO major.

FO Summer Field Program

Following the sophomore year, Forestry students must complete a Summer Field Program. The Summer Field Program is a 9-week session comprised of four courses that begin about the third week of May and end mid-July. The courses include: Forest Communities (FO 3012), Forest Description and Analysis (FO 3015), Introduction to Wood Supply Systems (FO 4231), and Introduction to Wildlife and Fisheries Practices (WFA 3031). Prerequisites for this program are Dendrology and Lab (FO 2113), Forest Measurements (FO 2213), Statistics (ST 2113), and Soils and Lab (PSS 3303).

The session is conducted on campus as well as on the John W. Starr Memorial Forest, the Tombigbee National Forest, and the Noxubee National Wildlife Refuge. In addition, the Introduction to Wood Supply Systems course frequents other nearby locations. Information on Summer Field Program can be found in the Student Lounge, 131 Thompson Hall in early February and on the CFR web site.

Forest-Based Entrepreneurship Certificate

The current trend in forest-based employment is downsizing and outsourcing. As a consequence, two major markets for graduates—corporations and agencies—are decreasing while employment

with entrepreneurial scale firms is on the increase. Entrepreneurial scale firms are businesses organized as a sole proprietorship, partnership, limited liability company, S or C corporations that provide specialized services or produce specialized products supporting

Course	Course Title	Semester Hours
ACC 2013	Principles of Financial Accounting	3
BL 2413	The Legal Environment of Business	3
FO/FP/WFA 4000	Directed Individual Study in Entrepreneurship	3
PHI 3013	Business Ethics	3
MGT 3323	Entrepreneurship	3

forests and forest resources or forest products. They may be forestry, wildlife, or wood products consultants, logging firms, small manufacturing firms, operators of recreational facilities, tree service firms, or operators of wholesale and retail sales facilities serving forest based businesses. Basic professional skills required are much the same as for traditional employment, but the business skills, acumen, and demands are quite different. The certificate program is directed at preparing students to compete more effectively in this growing market.

The program is open to students in good standing. Applicants must have the support of a faculty mentor. The certificate candidate must complete the following classes with a minimum GPA of 2.5, and will be encouraged to use electives to strengthen his/her background in the area.

Courses for which the student receives a grade D cannot be applied. Only two of the required courses can be transferred from another institution. In addition, each candidate must, during their senior year, prepare, submit, and defend a business plan for

SECTION II: DEPARTMENTS AND THEIR SPECIFIC POLICIES

FORESTRY ACADEMIC POLICIES AND PROGRAMS

a forest-based enterprise. Reports will be approved by the mentor and submitted to a committee for review. The Associate Dean will, upon approval of the report by the oversight committee, review the student's record to assure that requirements for the certificate have been met. If all requirements have been met, the Associate Dean will submit the candidate to the Dean for certificate issuance and notify the registrar to have a statement placed on the candidate's transcript. Certificates will be issued with the B.S. degree.

For more information, contact: Dr. Laura A. Grace, Room 305 Thompson Hall Annex, 662-325-8919, lgrace@cfr.msstate.edu; Dr. William B. Stuart, Room 309 Thompson Hall Annex, 662-325-0913, bstuart@cfr.msstate.edu

Forestry/Business Double Degree Program

A five-year curriculum leading to a Bachelor of Science in the Forest Management option of the FO major and a Bachelor of Business Administration in the College of Business and Industry is available. Students must satisfy all conditions for the B.S. degree in the FO major, complete the business core courses, and complete the chosen Business major. Students must meet all pre-requisites.

Several business and forestry courses can be double counted toward the dual degree. For more information, students interested in this program may contact the Coordinator in the CFR Academic Affairs Office.

Vanderford Scholars in Communications and Public Relations

The John M. Vanderford Memorial Fund was created to support MSU students who: are full-time students

in forestry; have a cumulative GPA of ≥ 2.50 ; and who show promise of an outstanding career and have an interest in developing additional skills in the communications or public relations aspects of forestry.

The Fund provides stipends to students that take communications and public relations courses. A \$100 stipend per course will be paid to students after a grade of C or better is earned in courses from the approved list.

The Fund also supports activities that promote communications and public relations, such as educating MSU students about Project Learning Tree, and traveling to a professional meeting.

Students may use the stipends to become a John M. Vanderford Scholar. Students may pursue one of two options to achieve a Certificate as a John M. Vanderford Scholar in Communications. Option 1 allows students flexibility to choose courses in communications from several programs at MSU. Option 2 is a formal minor from the Department of Communications. An additional \$500 stipend will be presented with each certificate.

Students must complete an application and submit to the Department of Forestry in 105 Thompson Hall before the last day to add a class each semester. See your advisor for a list of approved courses and other details.

SECTION II: DEPARTMENTS AND THEIR SPECIFIC POLICIES

DEPARTMENT OF WILDLIFE, FISHERIES AND AQUACULTURE (WFA)

Dr. Bruce Leopold, Department Head
205A Thompson Hall

The Department of Wildlife, Fisheries, and Aquaculture's mission is to provide information and train individuals for public agencies and private interests to manage wildlife and fish resources. Working to accomplish that mission, department faculty include wildlife scientists, wildlife extension specialists, fisheries scientists, fisheries extension specialists, aquaculture extension specialists, federal wildlife and fisheries scientists in the Fish and Wildlife Cooperative Research Unit, and seven aquaculture scientists. The Department also has close ties with the USDA APHIS Wildlife Services and the Mississippi Department of Wildlife, Fisheries, and Parks.

PROFESSIONAL EXPECTATIONS FOR STUDENTS IN THE WILDLIFE, FISHERIES, AND AQUACULTURE PROGRAM

Natural Resource Conservation and management is a profession, and individuals training within this vocation are expected to conduct themselves as professionals, beginning with their education. Behaviors and habits developed now will carry over and affect your career progress. Natural Resources Conservation and Management is more than animals and plants; working with people is an important element of your successful career. You will interact with people from all walks of life, in all manner of ways. Respecting others, being aware of how your behavior affects them, and the impression you are conveying is crucial to your professional development and how society views your profession. Your demeanor and actions reflect on you and Mississippi State University, the College of Forest Resources and the Department of Wildlife, Fisheries, and Aquaculture, our faculty, the student body, our alumni, and our profession as a whole. Therefore, you should conduct yourself appropriately regarding to conduct, appearance, and respect for others.

The Department of Wildlife, Fisheries, and Aquaculture has collectively agreed on a set of expectations and

consequences for students relative to behavior and habits to apply in classes, on buses and vans, and during indoor and outdoors laboratories, which include trips to private property, professional meetings and symposia, federal and state forests, refuges and monuments, field and industrial operations, and field sites.

WILDLIFE, FISHERIES, AND AQUACULTURE OPTIONS

Students must complete a specified major core curriculum and one of six academic pathways:

1. Conservation Law Enforcement Option
2. Human-Wildlife Conflicts Option
3. Wildlife Agriculture Conservation Option
4. Wildlife, Fisheries, and Aquaculture Science Option
5. Wildlife Pre-Veterinary 3+1 Program
6. Wildlife Veterinary 4 Year Option

Conservation Law Enforcement — For students who wish to seek employment following receipt of a B.S. degree and to obtain positions related to natural resource law enforcement positions (such as Conservation Officers, Park Rangers, Wildlife Inspectors). Students who complete this option are eligible for certification by The Wildlife Society. Continuation on to graduate school in human dimensions, conservation law enforcement, or wildlife biology is possible.

Human-Wildlife Conflicts — This curriculum provides the educational background for those students wishing to pursue a career as wildlife biologists with a strong background in wildlife damage management to resolve human-wildlife conflicts. Successful graduates of this program are eligible for certification by the Wildlife Society. Students completing this concentration may seek employment immediately following graduation; however, competition for positions may be intense. Students will be equally prepared to pursue one or

SECTION II: DEPARTMENTS AND THEIR SPECIFIC POLICIES

more graduate degrees (M.S., Ph.D.) in Human-Wildlife Conflicts or other area of Wildlife Science.

Wildlife Agriculture Conservation —This curriculum provides the educational background for students pursuing careers as wildlife biologists or conservationists in agricultural areas which requires a strong background in both wildlife biology and agricultural science. Successful graduates of this program are qualified to apply as Certified Wildlife Biologists to The Wildlife Society, and will meet minimum educational requirements for NRCS conservationist positions. Students completing this concentration may seek employment immediately following graduation. Students will be equally prepared to pursue one or more graduate degrees (M.S., Ph.D.) in wildlife biology and related natural resource fields

Wildlife, Fisheries, and Aquaculture Science — For students who intend to pursue an advanced degree. Employment with this option after the B.S. is earned is possible, but competition for jobs is intense and salaries can be low. Students are eligible for certification by the Wildlife Society, the American Fisheries Society, and the Ecological Society of America, but are not qualified to become Registered Foresters in Mississippi. This degree is intended for academically strong students who can maintain a 3.00 or higher GPA, which is the minimum required for admittance into graduate degree programs. This option provides for desired commonality, a solid foundation in natural

resource management, specialized discipline training and education, and flexibility to meet desired and unique career goals of students.

Wildlife Pre-Veterinary 3+1 Program — Integration of wildlife science and management and veterinary medicine has become important with current diverse uses of wildlife and other renewable natural resources. As wildlife habitats dwindle and animal populations become more compressed, attention towards disease diagnosis and abatement must increase. Students earn a 3+1 undergraduate degree program in Wildlife, Fisheries and Aquaculture. The student matriculates into the Department of Wildlife, Fisheries and Aquaculture for the first three years. Then, if accepted into the MSU College of Veterinary Medicine, the student's final year consists of successful matriculation in the first year of study in the Veterinary Program. Successful graduates of this program are qualified to apply for Certified Wildlife Biologist with The Wildlife Society as well as being qualified to practice veterinary medicine.

Wildlife Veterinary Option — Students that decide to complete their B.S. degree before applying to a veterinary college or students that decide to pursue other Wildlife, Fisheries and Aquaculture career paths, but are interested in having a strong background in basic veterinary medicine should pursue this option. This four year program will provide the foundation to pursue graduate studies that require a strong background in veterinary medicine.

WILDLIFE, FISHERIES AND AQUACULTURE ACADEMIC POLICIES AND PROGRAMS

WFA Major Core Courses

The following are core courses in the WFA major: BIO 1134, BIO 1144, BIO 3524, CH 1053, FO 2113, MA 1613, PSS 3301, PSS 3303, ST 3123, WFA 1102, WFA 3133, WFA 4121, WFA 4122, WFA 4223 and WFA 4473. Grades of C or better are required in these courses.

WFA Major Core Course Performance Requirements

Students may not apply courses with a grade of D to their WFA major core requirements. Only course work with a grade of C or higher will be applied as defined by the department above. Note: Pre-vet majors must earn grades of C or higher on all coursework required for Vet School.

SECTION II: DEPARTMENTS AND THEIR SPECIFIC POLICIES

WILDLIFE, FISHERIES AND AQUACULTURE ACADEMIC POLICIES AND PROGRAMS

WFA Major Core GPA Calculations

Grades of D and F will not be calculated in the defined WFA major and option core GPA. A student must retake a WFA core course in which he or she receives a grade of D or F.

Biology Minor

Students pursuing the four year pre-veterinary option (WLVM) should declare the Biology minor. WLVM students take all courses needed to satisfy the Biology minor. Other WFA students are encouraged to review the Biology Minor requirements located in the General Information section of this handbook.

Correspondence Courses

Correspondence courses (Independent Study) are not applied in the WFA major.

Directed Individual Study Courses

Directed Individual Study (DIS) courses can be applied to the WFA major with prior approval. The approval process requires the signatures of the student, the instructor, the student's advisor, the department head(s) of the instructor and the student, and the Associate Dean. The title, justification of the course, course description, and applicability of the course must be provided. Once approved, the DIS Form must be on file in the Academic Affairs Office

Internships

The course work required by the Wildlife, Fisheries and Aquaculture major is designed to ensure that the student is well prepared to effectively compete within the job market or for graduate school. Additionally, the laboratories of many of the required courses provide students with experience in using the tools and procedures important in natural resources management. However, it is critical that students have the opportunity to more actively participate in the activities associated with his or her intended career above and beyond what the laboratories provide.

An internship provides students with the opportunity to: work with prospective employers to obtain "hands-on" experience; get to know wildlife and/or fisheries professionals outside of the University; and verify that his or her career decision is the right one for him or her. Several internships (paid and unpaid) are available. An internship can be applied as a professional elective to the WFA major with prior approval; only 3 hours (one internship) may be applied. Mississippi Department of Wildlife, Fisheries and Parks, U.S. Fish and Wildlife Service, US Forest Service, and Weyerhaeuser are among the agencies that provide internship opportunities.

The approval process requires signatures from the instructor, the advisor, the department's undergraduate program coordinator, and the department head. Academic credit can be received if the student desires and credit is available for the type of internship being considered. A student must apply for an internship during pre-registration. The application must include which agency the internship will be with, the semester the internship will occur, transcripts, and names of three references.

Professional Electives

Only 3000+ level courses can be applied as professional electives toward the WFA major. See Example Curricula for a listing of professional electives.

Student Leadership Recognition Program

The Student Leadership Recognition Program was started in the Forestry with the purpose of introducing students to all activities offered by the Department, the College of Forest Resources (CFR), and beyond to stimulate them to voluntarily participate at all levels of activity, and to recognize the importance of participating. The program is now College wide and Wildlife, Fisheries, and Aquaculture majors may participate.

Beyond the educational and social benefits they will become more engaged in activities whereby they can network with faculty, their fellow students, and those in the greater forestry community.

This recognition of being a student leader and one who is active in extra curricular activities would also be a worthy addition to student resumes.

Interested students should see Dr. Stephen C. Grado, Room 357 Thompson Hall, 662-325-2792.

Transfer Credit

Only transfer courses with a grade of C or higher will be applied to the WFA major.

APPENDIX I: EXAMPLE CURRICULA

A student enrolled in the **Forestry (FO) major** must complete a specified core curriculum and one of five academic options within the major:

- Environmental Conservation
- Forest Management
- Forest Products
- Urban Forestry
- Wildlife Management

A student enrolled in the **Wildlife, Fisheries and Aquaculture (WFA) major** must complete a specified core curriculum and one of six academic pathways in the major:

- Conservation Law Enforcement Option
- Human-Wildlife Conflicts Option
- Wildlife Agriculture Conservation Option
- Wildlife, Fisheries and Aquaculture Science Option
- Wildlife Pre-Veterinary 3+1 Program
- Wildlife Veterinary Option

An example curriculum for each of these options follows. The example curricula should be followed by those students entering MSU as freshmen or transferring during the Fall 2010, Spring 2011, or Summer 2011 semesters and by those students changing majors into a CFR major from another major on campus.

- Pre-requisites are shown in parentheses.
- Approved substitutions for each option are listed on the corresponding options' electives list page. Approved substitutions do not require processing a substitution form.
- The list of approved electives is provided following the respective example curriculum pages.
- The semester courses that are taught every other year are shown in parentheses.

Acronyms used for College of Forest Resources Options	
ENCO	Environmental Conservation Option
FOMG	Forest Management Option
FP	Forest Products Option
URBN	Urban Forestry Option
WFMG	Wildlife Management Option
CLE	Conservation Law Enforcement Option
HWC	Human-Wildlife Conflicts Option
WLAC	Wildlife Agriculture Conservation Option
WLFS	Wildlife, Fisheries, and Aquaculture Science Option
WLVM	Wildlife Pre-Veterinary Option
PVSF	Wildlife Pre-Veterinary 3+1 Program

APPENDIX I: EXAMPLE CURRICULA

**2011-2012 Forestry Major
Environmental Conservation Option (ENCO)
Total Hours = 127**

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
CO 1003	Fund. of Public Speaking
EN 1103	English Comp I (ACT subscore 17)
FO 1101	Forest Resource Survey

Spring Semester

AEC 2713	Intro to Food and Res. Economics
BIO 1144	Biological Sciences II
EN 1113	English Composition II (EN1103)
MA 1313	College Algebra (ACT subscore 20)
Humanities Elective (3)	

Sophomore Year

Fall Semester

FO 2113	Dendrology (BIO 1134, BIO 1144)
FO 3113	Forest Recreation Mgt.
PSS 3303	Soils (CH 1043)
ST 2113	Intro. to Statistics (C in MA 1313 or ACT math subscore 24)
Emphasis Elective (3)	

Spring Semester

FO 3101	Computer Appl. For. Res. Lab
FO 3102	Computer Appl. For. Resources
FO 2213	Forest Measurements (ST 2113)
PH 1113	General Physics I (MA 1313 & MA 1323 or MA 1713)
Humanities Elective (3)	

Summer Field Program

FO 3012	Forest Communities (PSS 3303, FO 2113)
FO 3015	Forest Description and Analysis (FO 2213, ST 2113)
FO 4231	Introduction to Wood Supply Systems
WFA 3031	Introduction to Wildlife and Fisheries Practices

Junior Year

Fall Semester

WF 3133	App Aqua. & Terr. Eco. (BIO 1134 & 1144)
EPP 3124	Forest Pest Management
FO 4123	Forest Ecology (FO 3012)
FO 4233	For. Op. and Harv. (FO 3015, FO 4231)
Fine Arts Elective (3)	

Spring Semester

AIS 3203	Intro. to Tech. Writing in Agricom. (Jr.)
FO 4113	Forest Res. Econ. (AEC 2713)
FO 4213	Forest Biometrics (FO 3015, FO 3102/3101)
FO 4223	Practices of Silviculture (FO 4123)
FO 4221	Practices of Silviculture Lab (FO 4123)
Emphasis Elective (3)	

Senior Year

Fall Semester

FO 4313	Spatial Tech. in Nat. Res. (FO 3015)
FO 4323	For. Res. Mgt. (FO 4113, FO 4213, FO 4223, FO 4233)
WFA 4153	Prin. Wildlife Cons. and Mgt.
Emphasis Elective (3)	
Emphasis Elective (3)	

Spring Semester

FO 4413	Natural Res. Policy (Sr.)
FO 4423	Prof. Practice (FO 4323)
FO 4452	Remote Sens. (FO 4313 or GR 2313)
FO 4451	Remote Sens. Lab (FO 4313 or GR 2313)
FO 4463	Forest Hydro & Watershed Mgt. (PSS 3303, FO 4223/4221)
Emphasis Elective (2)	

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Approved Elective List Forestry - Environmental Conservation Option

Emphasis Electives: Choose 14 hours from among the three emphasis areas below (consult your advisor):

Land Emphasis

ABE 2873	Land Surveying
FO 3202/3201	Forest Fire
FO 4472	GIS Nat. Res. Mgt. (Jr.)
FO 4471	GIS Nat. Res. Mgt. Lab (Jr.)
FO 4483	Forest Soils (PSS 3303, FO 3012, FO 4123) (SP Odd)
GG 1113	Survey of Earth Sciences I
GG 1111	Earth Sciences I Lab
GG 3133	Intro. Environmental Geology
GR 1114	Physical Geography
GR 3113	Conservation of Natural Resources
GR 4603	Climatology (GR 1114 or GR 1123)
PSS 4333	Soil Cons. and Use (PSS 3303)

Social Emphasis

FO 4343	Forest Admin. and Organization
FO 4353	Natural Resource Law (Jr.)
PHI 1123	Intro. to Ethics
PHI 4143	Philosophy of Science
SO 4703	Population Prob. (SO 1003)
SO 4173	Environment and Society

Science Emphasis

BIO 4203	Taxon. of Spermat. (BIO 1203)
BIO 4213	Plant Ecology (BIO 4203)
FO 3123	Forest Ecology and Global Environ.
WFA 4222	Limnology (WFA 3133)
WFA 422	Limnology Lab
WFA 4383	Wetlands Ecology and Mgt

Fine Arts 3 hours

ARC 1013	Architectural Appreciation
ART 1013	Art History
ART 1113	Art Appreciation
CO 1503	Intro. to Theater
LA 1803	Landscape Architecture Appr.
MU 1113	History and Appr. of Music
MU 2213	History and Literature of Music
PE 1323	History and Appr. of Dance
PSS 2343	Floral Design
TKI 2413	Hist. and Appr. of the Artcrafts

Humanities 6 hours

ARC 2313	History of Architecture
EN 2203	Intro. to Literature
EN 2213	English Literature
EN 2243	American Literature I
EN 2273	World Literature I
FL 1113/1124	Elem. Foreign Language
HI 1063/1073	Early or Modern US History
HI 1163/1173	World History I or II
HI 1213/1223	Early or Modern Western World
HI 1313/1323	East Asian Civilizations I or II
PHI 1103	Intro. to Philosophy
PH 1123	Intro. to Ethics
REL 1103	Intro. to Religion
REL 3213	World Religions I

Approved Substitutions List for Environmental Conservation Option

Required Courses	Approved Substitutions
AEC 2713 Intro to Food & Resource Economics	EC 2113 Macroeconomics or EC 2123 Microeconomics
AIS 3203 Technical Writing	BIO 3013 Prof. Writ. for Biologists, EN 3313 Writ. for the Workplace, or MGT 3213 Organ. Comm.
FO 4452/4451 Remote Sensing	FO 4472/4471 GIS for Natural Resource Management
PH 1113 General Physics	CH 1053 Survey of Chem II, GR 1114 Physical Geography, or PH 2213 Physics I
ST 2113 Intro to Statistics	MA 2113 Intro to Statistics, MA 3123 or ST 3123 Statistics Inference

APPENDIX I: EXAMPLE CURRICULA

**2011-2012 Forestry Major
Forest Management Option (FOMG)
Total Hours = 128**

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
EN 1103	English Comp I (ACT subscore 17)
FO 1101	Forest Resource Survey
MA 1313	College Algebra (ACT subscore 20)
FP 1103	Wood Tech. and Products

Spring Semester

AEC 2713	Intro to Food and Res. Economics
BIO 1144	Biological Sciences II
CO 1003	Fund. of Public Speaking
EN 1113	English Composition II (EN 1103)

Sophomore Year

Fall Semester

FO 2113	Dendrology (BIO 1134, BIO 1144)
FO 3113	Forest Recreation Mgt.
PH 1113	General Physics I (MA 1313 & MA 1323 or MA 1713)
PSS 3303	Soils (CH 1043)
ST 2113	Intro. to Statistics (C in MA 1313 or ACT math subscore 24)

Spring Semester

FO 3101	Computer Appl. For. Res. Lab
FO 3102	Computer Appl. For. Resources
FO 2213	Forest Measurements (ST 2113)
	Business/Science Elective (3)
	Fine Arts Elective (3)
	Humanities Elective (3)

Summer Field Program

FO 3012	Forest Communities (PSS 3303, FO 2113)
FO 3015	Forest Description and Analysis (FO 2213, ST 2113)
FO 4231	Introduction to Wood Supply Systems
WFA 3031	Introduction to Wildlife and Fisheries Practices

Junior Year

Fall Semester

AIS 3203	Intro. to Tech Writing in Agricomm. (Jr.)
EPP 3124	Forest Pest Management
FO 4123	Forest Ecology (FO 3012)
FO 4233	For. Op. and Harv. (FO 3015, FO 4231)
	Humanities Elective (3)

Spring Semester

FO 4113	Forest Res. Econ. (AEC 2713)
FO 4213	Forest Biometrics (FO 3015, FO 3102/3101)
FO 4223	Practices of Silviculture (FO 4123)
FO 4221	Practices of Silviculture Lab (FO 4123)
	Professional Elective (3)
	Business/Science Elective (3)

Senior Year

Fall Semester

FO 4313	Spatial Tech. in Nat. Res. (FO 3015)
FO 4323	For. Res. Mgt. (FO 4113, FO 4213, FO 4223, FO 4233)
WFA 4153	Prin. Wildlife Cons. and Mgt.
	Professional Elective (3)

Spring Semester

FO 4413	Natural Res. Policy (Sr.)
FO 4423	Prof. Practice (FO 4323)
	Business/Science Elective (3)
	Free Elective (3)
	Professional Elective (3)

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Approved Elective List Forestry - Forest Management Option

Professional Electives (Can be applied as Business/Science electives)

ABE 2873	Land Surveying
BIO 3103	Genetics (MA 1313, BIO 1134, or BIO 2113)
BIO 3104	Ecology (BIO 1134)
BIO 4203	Taxon. of Spermat. (BIO 2113 & 2213)
BIO 4213	Plant Ecology (BIO 4203)
EPP 4154	General Entomology
EPP 4263	Prin. Insect Pest Mgt.
FO	ANY UPPER LEVEL FO COURSE 3000 or higher*
FP	ANY UPPER LEVEL FP COURSE 3000 or higher
ST 4213	Nonparametric Methods (ST 2113)
WFA	ANY UPPER LEVEL WFA COURSE 3000 or higher*

Fine Arts 3 hours

ARC 1013	Architectural Appreciation
ART 1113	Art Appreciation
CO 1503	Intro to Theater
LA 1803	Landscape Architecture Appreciation
MU 1113	History and Appr. of Music
PE 1323	History and Appr. of Dance
PSS 2343	Floral Design
TKI 2413	History and Appr. of the Artcrafts

Humanities 6 hours

EN 2203	Intro. to Literature
EN 2213	English Literature
EN 2243	American Literature I
FL 1113/1114	Elem. Foreign Language
HI 1063/1073	Early or Modern US History
HI 1163/1173	World History I or II
HI 1213/1223	Early or Modern Western World
PHI 1103	Intro. to Philosophy
PHI 1123	Intro. to Ethics
REL 1103	Intro. to Religion
REL 3213	World Religions I

Business/Science (Upper level courses can be applied as PE)

ACC 2013†	Prin. Financial Accounting
ACC 2023†	Prin. Managerial Acc. (ACC 2013)
BIS 3233†	Mgt. Information Systems (BIS 1012)
BL 2413†	Legal Environ. Business
BQA 3123†	Bus. Stat. Meth. II (BQA 2113)
EC 2113†	Prin. Macroeconomics (So.)
EC 2123†	Prin. Microeconomics (EC 2113)
FIN 3123†	Fin. Mgt. (ACC 2023, EC 2123, BQA 2123)
FO 2443	Essentials of Biotechnology
GG 1113	Survey of Earth Science I
GG 4503	Geomorphology
GR 1114	Elements of Physical Geography
GR 3113	Conservation of Natural Resources
GR 4603	Climatology (GR 1114 or GR 1123)
INS 3103	Principles of Insurance (Jr.)
MGT 3114†	Prin. of Mgt. Prod. (EC 2113, BQA 2113, Jr.)
MGT 3323	Entrepreneurship (EC 2123)
MGT 3513	Intro. Human Resource Mgt.
PH 1013	Physical Science Survey
PH 1063	Descriptive Astronomy
PHI 3013	Business Ethics
PSS 4313	Soil Fertility and Fertilizers (PSS 3303, Jr.)
PSS 4323	Soil Classification (PSS 3303)
PSS 4333	Soil Conservation and Land Use (PSS 3303)
REF 3333	Principles of Real Estate (Jr.)
REF 3433	Real Property Evaluation (REF 3333)

†Courses can apply to the General Business Minor

*CFR courses not otherwise specified on our curricula may be applied through the substitution process.

Approved Substitutions List for Forest Management Option	
Required Courses	Approved Substitutions
AEC 2713 Intr. Food & Res Eco	EC 2113 Macroeconomics or EC 2123 Microeconomics
AIS 3203 Technical Writing	BIO 3013 Prof. Writ. for Biologists, EN 3313 Writ. for the Workplace, or MGT 3213 Organ. Comm.
PH 1113 General Physics	CH 1053 Survey of Chem II, GR 1114 Physical Geography, or PH 2213 Physics I
ST 2113 Intro to Statistics	MA 2113 Intro to Statistics, MA 3123 or ST 3123 Statistics Inference

APPENDIX I: EXAMPLE CURRICULA

**2011-2012 Forestry Major
Forest Products Option (FP)
Total Hours = 128**

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
EN 1103	English Comp. I (ACT subscore 17)
FO 1101	Forest Resources Survey
MA 1613	Calc. for Bus. and Life Sc. (C in MA 1313 or ACT math subscore 24)
FP 1103	Wood Technology and Products

Spring Semester

AEC 2713	Intro to Food and Res. Economics
BIO 1144	Biological Sciences II
CH 1053	Gen. Chemistry II (CH 1043)
CO 1003	Public Speaking
EN 1113	English Comp. II (EN 1103)

Sophomore Year

Fall Semester

FO 2113	Dendrology (BIO 1134, BIO 1144)
PH 1113	Physics (MA 1313 or MA 1713)
PSS 3303	Soils (CH 1043)
ST 2113	Statistics (C in MA 1313 or ACT math subscore 24)
FP 4013	Wood Anatomy (FP 1103) (FL Even)

Spring Semester

FO 3101	Computer Appl. For. Res. Lab
FO 3102	Computer Appl. For. Resources
FO 2213	Forest Measurements (ST 2113)
	Fine Arts Elective (3)
	FP Processing Elective (3)
	FP Elective (3)

Summer Field Program

FO 3012	Forest Communities (PSS 3303, FO 2113)
FO 3015	Forest Description and Analysis (FO 2213, ST 2113)
FO 4231	Introduction to Wood Supply Systems
WFA 3031	Introduction to Wildlife and Fisheries Practices

Junior Year

Fall Semester

EPP 3124	Forest Pest Management
FO 4123	Forest Ecology (FO 3012)
FO 4233	For. Op. and Harv. (FO 3015, FO 4231)
FP Elective (3)	

Spring Semester

AIS 3203	Intro. to Tech. Writing in Agricom. (Jr.)
FO 4113	Forest Res. Econ. (AEC 2713)
FO 4213	Forest Biometrics (FO 3015, FO 3102/3101)
FO 4223/4221	Practices of Silviculture and Lab (FO 4123)
FP 4323	Phy. Prop. of Wood (FP 1103, MA 1613, PH 1113) (SP Odd)

Senior Year

Fall Semester

FO 4313	Spatial Tech. in Nat. Res. (FO 3015)
FO 4323	For. Res. Mgt. (FO 4113, FO 4213, FO 4223, FO 4233)
WFA 4153	Prin. Wildlife Cons. and Mgt.
FP Elective (3)	
Humanities Elective (3)	

Spring Semester

FO 4413	Natural Res. Policy (Sr.)
FO 4423	Prof. Practice (FO 4323)
	FP Elective (3)
	Humanities Elective (3)

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Approved Elective List Forestry - Forest Products Option

Forest Products Processing Electives (3 hours)

FP 4123	Lumber Manufacturing (FL Even)
FP 4143	Composite Wood Products (FP 4113) (SP Even)
FP 4223	Furniture Production I (FL Odd)
FP 4253	Quantitative Methods in Forest Products and Furniture (MA 1613 or 1713, BIS 1012) (SP Even)

Forest Products Option Electives (12 hours)

FP 4023	Wood Chemistry (CH 1053 or CH 1223) (SP Odd)
FP 4113	Adhesives and Finishes for Wood (CH 1053, FP 1103) (FL Odd)
FP 4123	Lumber Manufacturing (FL Even)
FP 4143	Composite Wood Products (FP 4113) (SP Even)
FP 4213	Wood Deterioration and Preservation (SP Odd)
FP 4223	Furniture Production I (FL Odd)
FP 4233	Furniture Production II (FL Even)
FP 4253	Quantitative Methods in Forest Products and Furniture (MA 1613 or 1713, BIS 1012) (SP Even)
FP 4313	Environmental Principles (FP 3012) (SP Even)
FP 4423	Mech. Properties of Wood (FP 1103, MA 1613, PH 1113) (SP Even)

FP Electives must be approved by Forest Products Option advisor.

Fine Arts 3 hours

ARC 1013	Architectural Appreciation
ART 1013	Art History
ART 1113	Art Appreciation
LA 1803	Landscape Architecture Appr.
MU 1113	History and Appr. of Music
MU 2213	History and Literature of Music
PE 1323	History and Appr. of Dance
PSS 2343	Floral Design
TKI 2413	Hist. and Appr. of the Arts/crafts

Humanities 6 hours

ARC 2313	History of Architecture
EN 2203	Intro. to Literature
EN 2213	English Literature
EN 2243	American Literature I
FL 1113	Elem. Foreign Language
FL 1124	Elem. Foreign Language
HI 1063	Early US History
HI 1073	Modern US History
HI 1163	World History I
HI 1173	World History II
HI 1213	Early Western World
HI 1223	Modern Western World
PHI 1103	Intro. to Philosophy
PHI 1113	Intro. to Logic
PH 1123	Intro. to Ethics
REL 1103	Intro. to Religion
REL 3213	World Religions I

Approved Substitutions List for Forest Products Option	
Required Courses	Approved Substitutions
AEC 2713 Intro to Food & Resource Economics	EC 2113 Macroeconomics or EC 2123 Microeconomics
AIS 3203 Technical Writing	BIO 3013 Prof. Writ. for Biologists, EN 3313 Writ. for the Workplace, or MGT 3213 Organ. Comm.
MA 1613 Business Calculus	MA 1713 Calculus
ST 2113 Intro to Statistics	MA 2113 Intro to Statistics, MA 3123 or ST 3123 Statistics Inference

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Forestry Major Urban Forestry Option (URBN) Total Hours = 128

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
CO 1003	Fund. of Public Speaking
EN 1103	English Comp. I (ACT subscore 17)
FO 1101	Forest Resources Survey
MA 1313	College Algebra (ACT subscore 20)

Spring Semester

AEC 2713	Intro to Food and Res. Economics
BIO 1144	Biological Sciences II
EN 1113	English Comp. II (EN 1103)
PS 1113	American Government
	Humanities Elective (3)

Sophomore Year

Fall Semester

FO 2113	Dendrology (BIO 1134, BIO 1144)
PSS 2434	Plant Materials I
ST 2113	Intro to Statistics (C in MA 1313, or ACT math subscore 24)
	Fine Arts Elective (3)
	Humanities Elective (3)

Spring Semester

FO 3101	Computer Appl. For. Res. Lab
FO 3102	Computer Appl. For. Resources
FO 2213	Forest Measurements (ST 2113)
PSS 3303	Soils (CH 1043)
REF 3333	Principles of Real Estate

Summer Field Program

FO 3012	Forest Communities (PSS 3303, FO 2113)
FO 3015	Forest Description and Analysis (FO 2213, ST 2113)
FO 4231	Introduction to Wood Supply Systems
WFA 3031	Introduction to Wildlife and Fisheries Practices

Junior Year

Fall Semester

AIS 3203	Intro to Tech. Writing in Agricomm. (Jr.)
EPP 3124	Forest Pest Management
FO 4123	Forest Ecology (FO 3012)
FO 4233	For. Op. and Harv. (FO 3015, FO 4231)
PSS 3473	Plant Material II (PSS 2423)

Spring Semester

FO 4113	Forest Res. Econ. (AEC 2713)
FO 4213	Forest Biometrics (FO 3015, FO 3102/3101)
LA 3623	Urban Planning
FO 4223	Practices of Silviculture (FO 4123)
FO 4221	Practices of Silviculture Lab (FO 4123)
REF 3433	Real Property Evaluation (REF 3333)

Senior Year

Fall Semester

FO 3113	Forest Recreation Mgt.
FO 4313	Spatial Tech. in Nat. Res. (FO 3015)
FO 4323	For. Res. Mgt. (FO 4113, FO 4213, FO 4223, FO 4233)
WFA 4153	Prin. Wildlife Cons. and Mgt.

Spring Semester

FO 4353	Natural Resource Law (Jr.)
FO 4413	Natural Resource Policy (Sr.)
FO 4423	Prof. Practice (FO 4323)
FO 4472	GIS Nat. Res. Mgt. (Jr.)
FO 4471	GIS Nat. Res. Mgt. Lab (Jr.)
PSS 4353	Arbor. and Landscape Maintenance

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Approved Elective List Forestry - Urban Forestry Option

Fine Arts 3 hours

ARC 1013	Architectural Appreciation
ART 1013	Art History
ART 1113	Art Appreciation
CO 1503	Intro. to Theater
LA 1803	Landscape Architecture Appr.
MU 1113	History and Appr. of Music
MU 2213	History and Literature of Music
PE 1323	History and Appr. of Dance
PSS 2343	Floral Design
TKI 2413	Hist. and Appr. of the Artcrafts

Humanities 6 hours

ARC 2313	History of Architecture
EN 2203	Intro. to Literature
EN 2213	English Literature
EN 2243	American Literature I
EN 2273	World Literature I
FL 1113	Elem. Foreign Language
FL 1124	Elem. Foreign Language
HI 1063	Early US History
HI 1073	Modern US History
HI 1163	World History I
HI 1173	World History II
HI 1213	Early Western World
HI 1223	Modern Western World
PHI 1103	Intro. to Philosophy
PHI 1113	Intro. to Logic
PH 1123	Intro. to Ethics
REL 1103	Intro. to Religion
REL 3213	World Religions I

Approved Substitutions List for Urban Forestry Option	
Required Courses	Approved Substitutions
AEC 2713 Intro to Food & Resource Economics	EC 2113 Macroeconomics or EC 2123 Microeconomics
AIS 3203 Technical Writing	BIO 3013 Prof. Writ. for Biologists, EN 3313 Writ. for the Workplace, or MGT 3213 Organ. Comm.
ST 2113 Intro to Statistics	MA 2113 Intro to Statistics, MA 3123 or ST 3123 Statistics Inference

APPENDIX I: EXAMPLE CURRICULA

**2011-2012 Forestry Major
Wildlife Management Option (WFMG)
Total Hours = 126**

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
CO 1003	Fund. of Public Speaking
EN 1103	English Comp. I (ACT subscore 17)
FO 1101	Forest Resources Survey
MA 1313	College Algebra (ACT subscore 20)

Spring Semester

AEC 2713	Intro to Food and Res. Economics
BIO 1144	Biological Sciences II
EN 1113	English Comp. II (EN 1103)
	Physical Science Elective (3)

Sophomore Year

Fall Semester

FO 2113	Dendrology (BIO 1134, BIO 1144)
PSS 3303	Soils (CH 1043)
ST 2113	Intro. to Statistics (C in MA 1313 or ACT math subscore 24)
WFA 3133	Appl. Aqua. & Terr. Ecol. (BIO 1134, BIO 1144)

Spring Semester

BIO 4203	Taxon. of Spermat. (BIO 2113, BIO 2213)
FO 3101	Computer Appl. For. Res. Lab
FO 3102	Computer Appl. For. Resources
FO 2213	Forest Measurements (ST 2113)
	Fine Arts Elective (3)
	Humanities Elective (3)

Summer Field Program

FO 3012	Forest Communities (PSS 3303, FO 2113)
FO 3015	Forest Description and Analysis (FO 2213, ST 2113)
FO 4231	Introduction to Wood Supply Systems
WFA 3031	Introduction to Wildlife and Fisheries Practices

Junior Year

Fall Semester

AIS 3203	Intro. to Tech. Writing in Agricom. (Jr.)
EPP 3124	Forest Pest Management
FO 4123	Forest Ecology (FO 3012)
FO 4233	For. Op. and Harv. (FO 3015, FO 4231)
	Professional Elective* (3)

Spring Semester

BIO 3524	Biology of Vertebrates
FO 4113	Forest Res. Econ. (AEC 2713)
FO 4213	Forest Biometrics (FO 3015, FO 3102/3101)
FO 4223	Practices of Silviculture (FO 4123)
FO 4221	Practices of Silviculture Lab (FO 4123)

Senior Year

Fall Semester

WFA 4433	Mammalogy (8 hrs. zoology)
FO 4313	Spatial Tech. in Nat. Res. (FO 3015)
FO 4323	For. Res. Mgt. (FO 4113, FO 4213, FO 4223, FO 4233)
WFA 4153	Prin. Wildlife Cons. and Mgt.
	Humanities Elective (3)

Spring Semester

WFA 4443	Ornithology (8 hrs. zoology)
FO 4353	Natural Resource Law (Jr.)
FO 4413	Natural Res. Policy (Sr.)
FO 4423	Prof. Practice (FO 4323)
WFA 4243	Wildlife Techniques (Jr.)

*See note on Approved Elective List regarding Professional Elective.

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Approved Elective List Forestry - Wildlife Management Option

Professional Electives (3 hours)

ABE 2873	Land Surveying
BIO 3103*	Genetics (MA 1313, BIO 1134, or BIO 2113)
BIO 3304	General Microbiology (CH 1053 or 1223)
BIO 4113	Evolution (BIO 1134/1144, BIO 3103, BIO 4133)
BIO 4213	Plant Ecology (BIO 4203)
BIO 4514*	Animal Phy. (10 hrs of zoo. & org. chem.)(SP)
FO	ANY UPPER LEVEL FO COURSE 3000 or higher^
MGT 3513	Intro. Human Res. Mgt.
ST 4213	Nonparametric Methods (ST 2113)
WFA 3000	Internship
WFA 4133	Fisheries Science (ST 3123 or equiv.)
WFA 4173*	Fish Physiology
WFA 4222/4221	Limnology and Lab. (WFA 3133)
WFA 4263*	Wildlife Diseases
WFA 4313	Fisheries Mgt. (WFA 3133)
WFA 4323*	Wildlife Nutrition and Physiology
WFA 4353	Fish & Wildlife Policy and Law Enf. (Sr.)
WFA 4423	Herpetology (8 hrs. zoology)
WFA 4453	Ichthyology (8 hrs. zoology)
WFA 4463	Human Dimensions of Fish and Wildlife Mgt.

* **Wildlife Certification requires one of these as a professional elective: BIO 3103, BIO 4514, WFA 4173, WFA 4263, or WFA 4323.**

^ FO courses not otherwise specified on the WFMG curricula may be applied through the substitution process.

Physical Science Elective (3 hours)

CH 1053	Survey of Chemistry II
GR 1114	Physical Geography
PH 1113	General Physics I

Fine Arts 3 hours

ARC 1013	Architectural Appreciation
ART 1113	Art Appreciation
CO 1503	Intro. to Theater
LA 1803	Landscape Architecture Appr.
MU 1113	History and Appr. of Music
PE 1323	History and Appr. of Dance
PSS 2343	Floral Design
TKI 2413	Hist. and Appr. of the Artcrafts

Humanities 6 hours

EN 2203	Intro. to Literature
EN 2213	English Literature
EN 2243	American Literature I
EN 2273	World Literature I
FL 1113/1124	Elem. Foreign Language
HI 1063/1073	Early or Modern US History
HI 1163/1173	World History I or II
HI 1213/1223	Early or Modern Western World
PHI 1103	Intro. to Philosophy
PHI 1113	Intro. to Logic
PHI 1123	Intro. to Ethics
REL 1103	Intro. to Religion
REL 3213	World Religions I

Approved Substitutions List for Wildlife Management Option	
Required Courses	Approved Substitutions
AEC 2713 Intro to Food & Resource Economics	EC 2113 Macroeconomics or EC 2123 Microeconomics
AIS 3203 Technical Writing	BIO 3013 Prof. Writ. for Biologists, EN 3313 Writ. for the Workplace, or MGT 3213 Organ. Comm.
BIO 4203 Taxonomy of Spermatophytes	BIO 4214 General Plant Physiology or WFA 4223 ID of Aquatic and Terrestrial Plants
ST 2113 Intro to Statistics	MA 2113 Intro to Statistics, MA 3123 or ST 3123 Statistics Inference

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Wildlife, Fisheries and Aquaculture Major Conservation Law Enforcement Option (CLE)

Total Hours = 124

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
CO 1003	Fund. of Public Speaking
EN 1103	English Comp. I (ACT subscore 17)
WFA 1102	Wildlife and Fisheries Profession

Spring Semester

BIO 1144	Biological Sciences II
CH 1053	Survey of Chemistry II (CH 1043)
CH 1051	Experimental Chem. Lab
EN 1113	English Composition II (EN 1103)
SO 1003	Intro. to Sociology
	Humanities Elective (3)

Sophomore Year

Fall Semester

FO 2113	Dendrology (BIO 1134, BIO 1144)
MA 1613	Calc. for Bus. & Life. Sci. (C in MA 1313 or ACT Math subscore 24)
WFA 3133	Appl. Aqua. & Terr. Ecol. (BIO 1134, BIO 1144)
PSS 3303	Soils (CH 1043)
PSS 3301	Soils Lab (CH 1043)
	Fine Arts Elective (3)

Spring Semester

PSY 1013	General Psychology
ST 3123	Intro. to Stat. Infer. (MA 1313 or equiv.)
	Economics Elective (3)
	Ethics Elective (3)
	Human Resource Management Elective (3)

Junior Year

Fall Semester

SO 3313	Deviant Behavior (SO 1003)
WFA 4122	Wildlife & Fisheries Biometrics (ST 3123)
WFA 4121	WF Biometrics Lab (ST 3123)
WFA 4313	Fisheries Management
	Nutrition/Physiology/Anatomy Elective (3)
	Professional Elective (3)

Spring Semester

AIS 3203	Intro. to Tech. Writing in Agricomm. (Jr.)
BIO 3524	Biology of Vertebrates
CRM 3103	Contemporary Issues in Criminal Justice (SO 1003)
WFA 4243	Wildlife Techniques (Jr.)
WFA 4253	Application of GIS in WF

Senior Year

Fall Semester

WFA 4223	ID of Aquatic and Terrestrial Plants (WFA 3133) (FL Odd)
WFA 4433	Mammalogy (8 hrs. zoology)
WFA 4153	Prin. Wildlife Cons. and Mgt.
WFA 4353	Fish and Wild. Policy & Law
	Natural Resource Management Elective (3)

Spring Semester

WFA 4443	Ornithology (8 hrs. zoology)
SO 3603	Criminological Theory (SO 1003)
WFA 4463	Human Dim. of Fish & Wildlife Mgt. (Jr.) (SP Even)
WFA 4473	Wildlife and Fisheries Practices (Sr.)
	Professional Elective (3)

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Wildlife, Fisheries and Aquaculture Major

Human-Wildlife Conflicts Option (HWC)

Total Hours = 124

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
CO 1003	Fund. of Public Speaking
EN 1103	English Comp. I (ACT subscore 17)
WFA 1102	Wildlife and Fisheries Profession

Spring Semester

BIO 1144	Biological Sciences II
CH 1053	Survey of Chemistry II (CH 1043)
EN 1113	English Composition II (EN 1103)
MA 1613	Calc. for Bus. and Life Sci. (C in MA 1313 or ACT math subscore 24)
	Humanities Elective (3)

Sophomore Year

Fall Semester

FO 2113	Dendrology (BIO 1134, BIO 1144)
PSS 3303	Soils (CH 1043)
PSS 3301	Soils Lab (CH 1043)
ST 3123	Intro. to Stat Infer. (C in MA 1313 or ACT math subscore 24)
WFA 3133	Appl. Aqua. & Terr. Ecol. (BIO 1134, BIO 1144)
	Economics Elective (3)

Spring Semester

BIO 3103	Genetics (MA 1313, BIO 1134 or BIO 2113)
BIO 3524	Biology of Vertebrates
	Fine Arts Elective (3)
	Humanities Elective (3)
	Social Science Elective (3)

Junior Year

Fall Semester

WFA 4122	Wildlife and Fisheries Biometrics (ST 3123)
WFA 4121	WF Biometrics Lab (ST 3123)
WFA 4223	ID of Aquatic and Terr. Plant (WFA 3133) (FL Odd)
WFA 4273	Ecol. and Mgt. of Human-Wildlife Con- flicts (WFA 1102, WFA 3133) (FL Odd)
WFA 4283	Human-Wildlife Conflicts Techniques (WFA 1102, WF 3133) (FL Odd)
WF 4353	Fish & Wildlife Policy & Law Enforcement

Spring Semester

AIS 3203	Intro. to Tech. Writing in Agricom. (Jr.)
WFA 4243	Wildlife Techniques (Jr.)
WFA 4443	Ornithology (8 hrs. zoology)
WFA 4463	Human Dim. Fish and WFA Mgt. (Jr.) (SP Even)
	Professional Elective (3)
	Professional Elective (3)

Senior Year

Fall Semester

WFA 3013	Internship in HWC
WFA 4133	Fisheries Sci. (SP Even) OR WFA 4313 Fisheries Mgt.
WF 4153	Prin Wildlife Conservation and Mgt
WF 4433	Mammalogy
WFA 4512	Advanced Topics in Human-Wildlife Con- flicts I (WFA 4273, WFA 4283) (FL Even)

Spring Semester

WF 4473	Wildlife and Fisheries Practices (Sr.)
WFA 4521	Advanced Topics in Human-Wildlife Conflicts II (WFA 4512) (SP Odd)
	Nutrition/Physiology/Anatomy Elective (3)
	Professional Elective (3)
	Professional Elective (4)

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Wildlife, Fisheries and Aquaculture Major Wildlife Agriculture Conservation Option (WLAC) Total Hours = 124

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
CO 1003	Fund. of Public Speaking
EN 1103	English Comp. I (ACT subscore 17)
WFA 1102	Wildlife and Fisheries Profession

Spring Semester

BIO 1144	Biological Sciences II
CH 1053	Survey of Chemistry II (CH 1043)
EN 1113	English Composition II (EN 1103)
MA 1613	Calc. for Bus. and Life Sci. (C in MA 1313 or ACT math subscore 24)
	Humanities Elective (3)

Sophomore Year

Fall Semester

AEC 2713	Into to Food & Resource Economics
FO 2113	Dendrology (BIO 1134, BIO 1144)
PSS 3303	Soils (CH 1043)
PSS 3301	Soils Lab (CH 1043)
WFA 3133	App. Aquatic & Terr. Eco. (BIO 1134, BIO 1144)
	Humanities Elective (3)

Spring Semester

BIO 3103	Genetics (MA 1313, BIO 1134 or BIO 2113)
BIO 3523	Biology of Vertebrates
ST 3123	Intro. to Stat Infer. (C in MA 1313 or ACT math subscore 24)
	Fine Arts Elective (3)
	Social Science Elective (3)

Junior Year

Fall Semester

AIS 3203	Intro. to Tech. Writing in Agricomm. (Jr.)
WFA 4121	WF Biometrics Lab (ST 3123)
WFA 4122	Wildlife & Fisheries Biometrics (ST 3123)
WFA 4153	Prin. Wildlife Conservation and Mgt.
WFA 4223)	ID of Aquatic and Terr. Plant (WFA 3133) (FL Odd)
	Animal Science Elective (3)

Spring Semester

FO 4223	Practices of Silviculture (WFA 3133)
PSS 4633	Weed Biology/Ecology
WFA 4253	Application of GIS in WF.
WFA 4373	Cons. in Ag. Landscapes (SP Odd) OR WFA 4363 WF Admin. and Communication
	Agriculture-Wildlife Elective (4)

Senior Year

Fall Semester

WFA 4133	Fisheries Sci. (SP Even) OR WFA 4313 Fisheries Mgt.
WFA 4353	Fish & Wildlife Policy & Law Enforcement
	Crop Science Elective (3)
	Nutrition/Physiology/Anatomy Elective (3)
	Organismal Elective (3)

Spring Semester

WFA 4473	Wildlife and Fisheries Practices (Sr.)
WFA 4243	Wildlife Techniques (Jr.)
WFA 4363	WF Admin. and Communication OR WF 4373 Cons. in Ag. Landscapes (SP Odd)
	Agriculture-Wildlife Elective (3)
	Organismal Elective (3)

APPENDIX I: EXAMPLE CURRICULA

**2011-2012 Wildlife, Fisheries and Aquaculture Major
Wildlife, Fisheries, and Aquaculture Science Option (WLFS)
Total Hours = 124**

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1043	Survey of Chemistry I
CO 1003	Fund. of Public Speaking
EN 1103	English Comp. I (ACT subscore 17)
WFA 1102	Wildlife and Fisheries Profession

Spring Semester

BIO 1144	Biological Sciences II
CH 1053	Survey of Chemistry II (CH 1043)
EN 1113	English Composition II (EN 1103)
MA 1613	Calc. for Bus. and Life Sci. (C in MA 1313 or ACT math subscore 24)
	Humanities Elective (3)

Sophomore Year

Fall Semester

FO 2113	Dendrology (BIO 1134, BIO 1144)
PSS 3303	Soils (CH 1043)
PSS 3301	Soils Lab (CH 1043)
ST 3123	Intro. to Stat Infer. (C in MA 1313 or ACT math subscore 24)
WFA 3133	Appl. Aqua. & Terr. Ecol. (BIO 1134, BIO 1144)
	Economics Elective (3)

Spring Semester

BIO 3103	Genetics (MA 1313, BIO 1134 or BIO 2113)
BIO 3524	Biology of Vertebrates
	Fine Arts Elective (3)
	Humanities Elective (3)
	Social Science Elective (3)

Junior Year

Fall Semester

WFA 4223	ID of Aquatic & Terr. Plant (WFA 3133) (FL Odd)
WFA 4122	Wildlife & Fisheries Biometrics (ST 3123)
WFA 4121	WF Biometrics Lab (ST 3123)
WFA 4153	Prin. Wildlife Conservation and Mgt.
WFA 4353	Fish & Wildlife Policy & Law Enforcement
	Professional Elective (3)

Spring Semester

AIS 3203	Intro. to Tech. Writing in Agricomm. (Jr.)
FO 4223	Practices of Silviculture (WFA 3133) OR Invertebrate Elective (3)
WFA 4463	Human Dim. Fish and WFA Mgt. (Jr.) (SP Even)
	Nutrition/Physiology/Anatomy Elective (3)
	Professional Elective (3)

Senior Year

Fall Semester

WFA 4133	Fisheries Sci. (SP Even) OR WFA 4313 Fisheries Mgt.
WFA 4222	Limnology AND WFA 4221 Lim. Lab OR WFA 4383 Wetlands Ecol & Mgt. (FL Even)
	Organismal Elective (3)
	Professional Elective (3)
	Professional Elective (3)

Spring Semester

WFA 4473	Wildlife and Fisheries Practices (Sr.)
WFA 4243	Wildlife Techniques (Jr.)
WFA 4183	Prin. of Aquacult. (SP Even) OR Organismal Elec. (3)
	Professional Elective (3)
	Professional Elective (4)

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Wildlife, Fisheries and Aquaculture Major Wildlife Veterinary Option (WLVM)

Total Hours = 124

This option is offered to students who wish to fulfill the academic requirements for entrance into veterinary school but wish to complete a baccalaureate program before entering into veterinary school. This curriculum satisfies the academic requirements of TWS Wildlife Certification.

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1213	Chemistry I (C in MA 1313 or ACT math subscore 24)
CO 1211	Investigations in Chem. I
EN 1103	English Comp. I (ACT subscore 17)
MA 1613	Calc. for Bus. & Life Sci. (C in MA 1313 or ACT math subscore 24)
WFA 1102	Wildlife & Fisheries Profession

Spring Semester

BIO 1144	Biological Sciences II
CH 1221	Investigations in Chem. II (CH 1211)
CH 1223	Chemistry II (CH 1213)
CO 1003	Fund. of Public Speaking
EN 1113	English Composition II (EN 1103)
PH 1113	General Physics I (MA 1313 & MA 1323 or MA 1613)

Sophomore Year

Fall Semester

BIO 3304	Gen. Microbio. (CH 1053 or 1223)
CH 4513	Organic Chem. I (CH 1223/1221)
CH 4511	Organic Chem. I Lab (CH 1223/1221)
FO 2113	Dendrology (BIO 1134, BIO 1144)
PH 1123	General Physics II

Spring Semester

BCH 4013	Elem. Biochemistry (CH 2503 and BIO 1144)
BIO 3103	Genetics (MA 1313, BIO 1134 or BIO 2113)
BIO 3524	Biology of Vertebrates
CH 4523	Organic Chem. II (CH 4513/4511)
CH 4521	Organic Chem. II Lab (CH 4513/4511)
ST 3123	Intro. to Stat. Infer. (MA 1313 or ACT math subscore 24)

Junior Year

Fall Semester

BIO 2103	Cell Biology (6 hrs. bio & CH 1223)
WFA 3133	App Aquatic & Terr. Eco. (BIO 1134, BIO 1144)
WFA 4122	Wildlife & Fisheries Biometrics (ST 3123)
WFA 4121	WF Biometrics Lab (ST 3123)
	Humanities Elective (3)
	Social Science Elective (3)

Spring Semester

AIS 3203	Intro. to Tech. Writing in Agricomm. (Jr.)
WFA 4263	Wildlife Diseases (SP Even) OR WFA 4323 Wildlife Nutrition and Physiology (SP Odd)
WFA 4443	Ornithology (8 hrs. zoology)
	Economics Elective (3)
	Humanities Elective (3)

Summer Semester

Externship (>480 hours of work experience)

Senior Year

Fall Semester

WFA 4153	Prin. Wildlife Cons. and Mgt.
WFA 4223	ID of Aquatic and Terr. Plant (WFA 3133) (FL Odd)
WFA 4433	Mammalogy (8 hrs. zoology)
WFA 4353	Fish and Wild. Policy & Law
	Fine Arts Elective (3)

Spring Semester

BIO 4413	Immunology (BIO 3304, CH 4513)
WFA 4243	Wildlife Techniques (Jr.)
WFA 4323	Wildlife Nutrition and Physiology (SP Odd) OR WFA 4263 Wildlife Diseases (SP Even)
WFA 4473	Wildlife and Fisheries Practices (Sr.)
	Policy Elective (3)

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Wildlife, Fisheries and Aquaculture Major Wildlife Pre-Veterinary 3+1 Option (PVSF) Total Hours = 115

This integrated curriculum allows the student to pursue a 3 +1 undergraduate degree program in Wildlife, Fisheries and Aquaculture Science for three years and then, if accepted, matriculate into the Veterinary Medicine program in the College of Veterinary Medicine. MSU requires a minimum of 124 hours for the undergraduate degree. Therefore, to qualify for the B.S. degree in Wildlife, Fisheries and Aquaculture, a student must complete the 3 years of the undergraduate course work in the wildlife pre-veterinary program and also successfully complete the first year in the Veterinary Medicine curriculum.

Freshman Year

Fall Semester

BIO 1134	Biological Sciences I
CH 1213	Chemistry I (C in MA 1313 or ACT math subscore 24)
CH 1211	Investigation in Chem. I
CO 1003	Fund. of Public Speaking
EN 1103	English Comp. I (ACT subscore 17)
MA 1613	Calc. for Bus. and Life Sci. (C in MA 1313 or ACT math subscore 24)
WFA 1102	Wildlife and Fisheries Profession

Spring Semester

BIO 1144	Biological Sciences II
CH 1221	Investigations in Chem. II (CH 1211)
CH 1223	Chemistry II (CH 1213)
EN 1113	English Composition II (EN 1103)
PH 1113	General Physics I (MA 1313 and MA 1323 or MA 1613)
	Social Science Elective (3)

Summer Semester

BIO 3103	Genetics (MA 1313, BIO 1134 or BIO 2213)
PH 1123	General Physics II (PH 1113)

Sophomore Year

Fall Semester

BIO 3304	Gen. Microbio. (CH 1053 or 1223)
CH 4513	Organic Chem. I (CH 1223/1221)
CH 4511	Organic Chem. 1 Lab (CH 1223/1221)
FO 2113	Dendrology (BIO 1134, BIO 1144)
WFA 3133	Appl. Aqua. & Terr. Ecol. (BIO 1134, BIO 1144)
	Humanities Elective (3)

Spring Semester

BCH 4013	Elem. Biochemistry (CH 2503 and BIO 1144)
BIO 3524	Biology of Vertebrates
CH 4523	Organic Chem. II (CH 4513/4511)
CH 4521	Organic Chem. II Lab (CH 4513/4511)
ST 3123	Intro to Stat. (C in MA 1313 or ACT math subscore 24)
	Economics Elective (3)

Summer Semester

Humanities Elective (3)

Junior Year

Fall Semester

WFA 4433	Mammalogy (8 hrs. zoology)
WFA 4122	Wildlife & Fisheries Biometrics (ST 3123)
WFA 4121	WF Biometrics Lab (ST 3123)
WFA 4153	Prin. Wildlife Conservation and Mgt.
WFA 4223	ID of Aquatic & Terr. Plant (WFA 3133) (FL Odd)
WFA 4353	Fish & Wildlife Policy & Law Enforcement
	Fine Arts Elective (3)

Spring Semester

AIS 3203	Intro. to Tech. Writing in Agricom. (Jr.)
BIO 4413	Immunology (BIO 3304, CH 4513)
WFA 4443	Ornithology (8 hrs. zoology)
WFA 4243	Wildlife Techniques (Jr.)
WFA 4473	Wildlife and Fisheries Practices (Sr.)
	Policy Elective (3)

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Wildlife, Fisheries and Aquaculture Approved Elective List All Academic Pathways

Agriculture-Wildlife Professional Elective

AEC 4343	Advanced Farm Mgt. (Fall)
AEC 4413	Public Prob. in Agriculture (Spring)
FO 3202/3201	Forest Fire and Lab
FO 4483	Forest Soils (SP Odd)
GG 3613	Water Resources
GG 4613	Physical Hydrology
PSS 4373	Geospatial Agronomic Mgt.
PSS 4603	Soil Chemistry (Spring)
PSS 4813	Herbicide Technology
WFA 4133	Fisheries Science (ST 3123) (SP Even)
WFA 4183	Principles & Pract. of Aquaculture (SP Even)
WFA 4273	Eco. & Mgt. of Human-Wildlife Conflicts (FL Odd)
WFA 4283	Human-Wildlife Conflict Techniques (FL Odd)
WFA 4383	Wetlands Ecology and Mgt. (FL Even)
WFA 4394	Waterfowl Eco (WFA 3133, WFA 4153) (FL Odd)
WFA 4463	Hum. Dim. of Fish & Wildlife Mgt. (Jr.) (SP Even)
WFA 4484	Upland Avian Eco. & Mgt. (WFA 3133, WFA 4153) (SP Even)
WFA 4494	Lg Mammal Eco/Mgt. (WFA 3133, WFA 4153) (FL Even)

Crop Science Elective

PSS 4103	Forage and Pasture Crops (Fall)
PSS 4123	Grain Crops (Spring)
PSS 4133	Fiber and Oilseed Crops (Spring)
PSS 4453	Vegetable Production (Fall)

Animal Science Elective

ADS 1114	Animal Science
ADS 3312	Livestock Management and Practice
ADS 4115	Animal Nutrition
ADS 4123	Animal Breeding
ADS 4222	Small Animal Production
ADS 4324	Beef Cattle Production
ADS 4814	Dairy Farm Management

Invertebrate Elective

BIO 3514	Invertebrate Zoology (BIO 1134 and BIO 1144)
EPP 3124	Forest Pest Management
EPP 4154	General Entomology
EPP 4234	Field Crop Insects (EPP 2213 or 4154)
EPP 4244	Aquatic Entomology (EPP 4154)

Fine Arts Elective

ARC 1013	Architectural Appreciation
ART 1013	Art History
ART 1113	Art Appreciation
CO 1503	Intro. to Theater
LA 1803	Landscape Architecture Appr.
MU 1113	History and Appr. of Music
PE 1323	History and Appr. of Dance
PSS 2343	Floral Design
TKI 2413	Hist. and Appr. of the Artcrafts

Human Resources Management Elective

AIS 3803	Lead Dev. Agr. and Life Science
CO 3293	Corporate Comm. (Jr.)
FO 4343	For. Admin. and Organization
MGT 3114	Prin. Mgt. & Prod. (EC 2113, BQA 2113, Jr.)
MGT 3213	Organizational Comm. (EN 1113, Jr.)
MGT 3513	Intro. to Human Resource Mgt.
WFA 4363	Wildlife & Fish Adm. & Comm. (Jr.)

Humanities Elective

EN 2203	Intro. to Literature
EN 2213	English Literature
EN 2243	American Literature I
EN 2273	World Literature I
FL 1113	Elem. Foreign Language
HI 1063/1073	Early US History or Modern US History
HI 1163/1173	World History before 1500 or WH after 1500
HI 1213/1223	Early Western World or Modern Western World
HI 1313/1323	East Asian Civilizations I or EA Civilizations II
PHI 1103	Intro to Philosophy
PHI 1113	Intro to Logic
PHI 1123	Intro to Ethics
REL 1103	Intro to Religion
REL 3213	World Religions I

Economics Elective

AEC 2713	Intro. to Agricultural Economics
EC 2113	Prin. Macroeconomics (So.)
EC 2123	Prin. Microeconomics (EC 2113, So.)

Ethics Elective

PHI 1123	Intro Ethics
PHI 1193	Honors Ethics

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Wildlife, Fisheries and Aquaculture Approved Elective List All Academic Pathways

Natural Resources Management Elective

FO 3113	Forest Recreation Management
FO 4472/4471	GIS Nat. Res. Mgt
GR 4303	Principles of GIS
GR 4313	Advanced GIS
WFA 4153	Prin. of Wildlife Conservation and Mgt.
WFA 4183	Prin. & Practices Of Aquaculture (SP Even)
WFA 4253	Application of GIS in WF
WFA 4273	Eco. & Mgt. of Human-Wildlife Conf. (FL Odd)
WFA 4283	Human-Wildlife Conf. Techniques (FL Odd)
WFA 4313	Fisheries Mgt. (WFA 3133)
WFA 4363	Wildlife And Fish. Admin. And Comm.
WFA 4383	Wetlands Ecology and Mgt. (FL Even)
WFA 4394	Waterfowl Eco. & Mgt. (WFA 3133, WFA 4153) (FL Odd)
WFA 4463	Hum. Dim. of Fish & Wildlife Mgt. (Jr.) (SP Even)
WFA 4484	Upland Avian Eco. & Mgt. (WFA 3133, WFA 4153) (SP Even)
WFA 4494	Large Mam Ecology & Mgt (WFA 3133, WFA 4153) (FL Even)

Nutrition/Physiology/Anatomy Elective

ADS 4115	Animal Nutrition
BIO 3504	Comparative Anatomy (BIO 1134 and BIO 1144)
BIO 4514	Animal Physiology (10 hrs. bio & org chem) (SP)
PO 4843	Avian Physiology
VS 3014	Anatomy and Physiology
WFA 4173	Fish Physiology
WFA 4323	Wildlife Nutrition and Physiology

Organismal Elective

WFA 4423	Herpetology (8 hrs. zoology)
WFA 4433	Mammalogy (8 hrs. zoology)
WFA 4443	Ornithology (8 hrs. zoology)
WFA 4453	Ichthyology (8 hrs. zoology) (counts in zoology category only for TWS certification)

Policy Elective

FO 4343	Forest Admin. and Organization
FO 4353	Natural Resource Law (Jr.)
FO 4413	Natural Resources Policy (Sr.)
PS 4743	Environmental Policy
WFA 4353	Fish & Wildlife Policy & Law Enforce. (Sr.)
WFA 4363	Wildlife & Fisheries Admin. & Comm. (Jr.)
WFA 4463	Human Dim. of Wildlife and Fisheries Mgt. (Jr.)

Professional Electives

AEC 4413	Public Problems in Agriculture
ADS 4314	Intro. to Meat Science
AN 3313	Hum. Identification (AN 1103, AN 1343)
BCH 4013	Elem. Biochem. (CH 2503 & BIO 1144)
BIO 3013	Professional Writing for Biologists
BIO 3303	Parasitology
BIO 3304	General Microbiology (CH 1053 or 1223)
BIO 4113	Evolution (BIO 1144, BIO 3103 or BIO 4133)
BIO 4213	Plant Ecology (BIO 4203)
BIO 4514	Animal Physiology (Spring odd years)
CO 4213	Political Communication (CO 1223)
CO 4323	Mass Media and Society (Jr.)
FO 3113	Forest Recreation Mgt.
FO 3123	Forest Ecol. and Global Environ.
FO 3203	Forest Fire
FO 4223/4221	Practice of Silviculture/Lab (FO 4123)
FO 4313	Spatial Tech. in Nat. Res. (FO 3015)
FO 4353	Natural Resource Law (Jr.)
FO 4463	Forest Hydrology & Water Shed (PSS 3303, FO 3012, FO 4123)
FO 4472/4471	GIS Nat. Res. Mgt./Lab (Jr.)
FO 4483	Forest Soils (PSS 3303, FO 3012, FO 4123)
FST 4164	Quality Assur. of Food Prod. (BIO 3304)
GG 3613	Water Resources
GG 4613	Physical Hydrology
GR 3113	Conservation of Natural Resources
GR 4303	Principles of GIS
GR 4313	Advanced GIS
PHI 4143	Philosophy of Science
PSS 4633	Weed Biology/Ecology
PSY 3073	Psy. of Interpersonal Relations (Jr.)
SO 4173	Env. & Society (AN 1103 or SO 1003)
SO 4703	Population Prob. and Processes (SO 1003)
SO 4993	Law and Society
ST 4213	Nonparametric Methods (ST 2113)
WFA 4133	Fisheries Science (ST 3123) (SP Even)
WFA 4183	Prin. & Practices Of Aquaculture (SP Even)
WFA 4222/4221	Limnology and Lab (WFA 3133)
WFA 4263	Wildlife Diseases (SP Even)
WFA 4273	Ecology & Mgt of HWC (FL Odd)
WFA 4283	HWC Techniques (FL Odd)
WFA 4363	Wildlife & Fish Admin. and Comm. (Jr.)

APPENDIX I: EXAMPLE CURRICULA

2011-2012 Wildlife, Fisheries and Aquaculture Approved Elective List All Academic Pathways

Professional Electives (continued)

WFA 4373	Prin. & Prac. of Cons. in Ag Landscapes (SP Odd)
WFA 4383	Wetlands Ecology and Mgt. (FL Even)
WFA 4394	Waterfowl Ecology & Mgt. (WFA 3133, WFA 4153) (FL Odd)
WFA 4423	Herpetology (8 hrs. zoology)
WFA 4433	Mammalogy (8 hrs. zoology)
WFA 4443	Ornithology (8 hrs zoology)
WFA 4453	Ichthyology (8 hrs. zoology)
WFA 4463	Human Dim. of Fish and Wildl. Mgt. (Jr.) SP Even)
WFA 4483	Seminar in Tropical Biology (WFA 3133) (SP Even)
WFA 4484	Upland Avian Eco. & Mgt. (WFA 3133, WFA 4153) (SP Even)
WFA 4494	Large Mammal Ecology & Mgt. (WFA 3133, WFA 4153) (FL Even)

Social Science Electives

AN 1103	Intro. to Anthropology
AN 1343	Intro. Biological Anthropology
CO 1223	Intro. to Comm. Theory (CO 1003 or 2253)
CO 1403	Intro. to Mass Media
GR 1123	Intro. to World Geography
GR 2013	Cultural Geography
PS 1113	American Government
PSY 1013	General Psychology
PSY 3073	Psy. of Interpersonal Relations (Jr.)
SO 1003	Intro. to Sociology
SO 1103	Contemporary Social Problems

Approved Substitutions List for Wildlife, Fisheries, and Aquaculture Majors

Course	Approved Substitution	Concentrations					
		CLE	HWC	WLAC	WLFS	WLVM	PVSF
AIS 3203 Technical Writing	BIO 3013 Prof. Writ. for Biologists	Yes	Yes	Yes	Yes	Yes	Yes
	EN 3313 Writing for the Workplace	Yes	Yes	Yes	Yes	Yes	Yes
	MGT 3213 Organizational Comm.	Yes	Yes	Yes	Yes	Yes	Yes
BIO 4413 Immunology	BIO 3303 Parasitology					Yes	Yes
MA 1613 Calc. Bus. Life Science	MA 1713 Calculus I	Yes	Yes	Yes	Yes	Yes	Yes
PH 1113 General Physics I	PH 2213 Physics I					Yes	Yes
PH 1123 General Physics II	PH 2223 Physics II					Yes	Yes
WFA 4433 Mammalogy	WFA 4453 Herpetology	No	No			Yes	Yes
WFA 4433 Ornithology	WFA 4453 Herpetology	No	No			Yes	Yes
WFA 4223 ID of A/T Plants	BIO 4203 Tax. of Spermatophytes	Yes	Yes	Yes	Yes	Yes	Yes
	BIO 4214 Gen. Plant Physiology	Yes	Yes	Yes	Yes	Yes	Yes
WFA 4253 Appl of GIS in WF.	FO 4472 & 4471 GIS Nat Res. Mgt.	Yes		Yes			
	GR 4303 Principles of GIS	Yes		Yes			
	GR 4313 Advanced GIS	Yes		Yes			

CLE = Conservation Law Enforcement; HWC = Human-Wildlife Conflicts; WLAC = Wildlife Agriculture Conservation; WLFS = Wildlife, Fisheries, and Aquaculture; WLVM = Wildlife Veterinary Science; PVSF = Pre-Veterinary (3+1).

APPENDIX II: DESCRIPTION OF CFR COURSES

Course numbers consist of four digits. The first digit indicates the level of preparation required and the fourth digit indicates the number of semester hours. The two middle digits are for department use. A fourth digit of zero (0) means that credit awarded is in consultation with the instructor. Where the same course is offered on both the undergraduate and graduate levels, two numbers are used to designate the levels of credit; ex. FO 4113/6113.

Department of Forest Products

FP 1103. Wood Technology and Products. (3) Three hours lecture. A survey of wood structures, properties and products, including reconstituted wood products, chemicals from wood and wood preservation. Fall Only.

FP 2990. Special Topics in Forest Products. (1-9) Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years). All Terms.

FP 3012. Introduction to Forest Industries. (2) 40 hours per week for two weeks of laboratory (industry tours). Guided introduction to forest products industries and processes. Summer Only.

FP 4000. Directed Individual Study. Hours and credits to be arranged. All Terms.

FP 4013/6013. Wood Anatomy. (3) (Prerequisites: FP 1103 or consent of instructor). Two hours lecture. Three hours laboratory. Anatomy of commercial timber species; elements of botanical microtechnique, fundamentals of microscopy, and fundamental properties: gross and minute structural characteristics of wood leading to identification. Fall Semesters of Even Years Only.

FP 4023/6023. Wood Chemistry. (3) (Prerequisite: CH 1053 and 1051 or CH 1223 and CH 1221). Three hours lecture. Introduction to the distribution, chemical structure, reactions and uses of the chemical components of wood including cellulose, hemicellulose, lignin and extractives. Spring Semesters of Odd Years Only.

FP 4113/6113. Adhesives and Finishes for Wood. (3) (Prerequisite: CH 1053, FP 1103, or consent of instructor). Two hours lecture. Three hours laboratory. Theory and technology of adhesion; adhesive types, application equipment; fundamentals of coating technology; wood finishes; finishing systems; evaluation of glued, finished products; market volumes. Fall Semesters of Odd Years Only.

FP 4123/6123. Lumber Manufacturing. (3) (Prerequisite: consent of instructor). Two hours lecture. Three hours laboratory. Raw materials, production methods and product specifications for sawn wood products. Machinery and plant layout. Operation, control, and analysis of lumber manufacturing systems; markets. Fall Semesters of Even Years Only.

FP 4143/6143. Composite Wood Products. (3) (Prerequisite: FP 4113 or consent of instructor). Two hour lecture. Three hour laboratory. Study of physical and chemical parameters affecting reconstituted wood products; laboratory investigation of processing methods; industrial standards and quality control; markets. Spring Semester of Even Years Only.

FP 4213/6213. Wood Deterioration and Preservation. (3) (Prerequisite: consent of instructor). Two hour lecture. Three hour laboratory. Thermal, biological, and mechanical agents of wood products deterioration; biological control; design considerations; wood preservatives, preservation systems; treat-ability; preservative effectiveness; standards, pollution control. Spring Semesters of Odd Years Only.

FP 4223/6223. Furniture Production I. (3) (Prerequisite: FP 1103 or consent of instructor). Two hour lecture. Three hour laboratory. The theory of furniture production; materials for furniture; manufacturing machines and their functions; wood machining and sanding; finishing; industrial processes; marketing. Fall Semesters of Odd Years Only.

APPENDIX II: DESCRIPTION OF CFR COURSES

Department of Forest Products

FP 4233/6233. Furniture Production II. (3) (Prerequisite: FP 1103 or Consent of instructor). Two hour lecture. General principles of upholstered furniture design; frame construction and analysis; material selection; fasteners; joint construction; and testing standards. Fall Semesters of Even Years Only.

FP 4253/6253. Quantitative Methods in Forest Products and Furniture. (3) (Prerequisite: MA 1613 or 1713, BIS 1012, or concurrent). Three hour lecture. Application of economic principles to the production and marketing of forest products; production theory of single and multi-product firms; computer applications. Spring Semesters of Even Years Only.

FP 4313/6313. Environmental Principles. (3) (Prerequisites: FP 3012 or Consent of instructor). Three hour lecture. Environmental regulations pertaining to Forest Products industries. Handling and transport of hazardous compounds. Sources of environmental problems, fate in the environment, and common control technologies. Spring Semesters of Even Years Only.

FP 4323/6323. Physical Properties of Wood. (3) (Prerequisites: FP 1103, MA 1613, PH 1113, or consent of instructor). Two hour lecture. Three hour laboratory. Equation derivation; dimensional behavior; psychometry; thermal properties; electricity; moisture movement; case studies/problems. Spring Semesters of Odd Years Only.

FP 4353/6353. Forest Products Marketing. (3) (Prerequisites: FP 3012 and junior standing). Marketing and practices used by forest products and furniture producing companies as related to differentiated vs. non-differentiated products by consumers. Spring Semesters of Odd Years Only.

FP 4413. Professional Practice. (3) (Prerequisite: Senior standing). Three hour independent study. Seniors will be exposed to all FP faculty members and required to prepare both written and oral reports on a variety of FP topics. Fall Only.

FP 4423/6423. Mechanical Properties of Wood. (3) (Prerequisite: FP 1103, MA 1613, PH 1113, or consent of instructor). Two hour lecture. Three hour laboratory. Strength and elasticity of wood and wood composites; variation in properties as function of structure, moisture, temperature and time; derivation of working stresses; structural design. Spring Semesters of Even Years Only.

FP 4990/6990. Special Topics in Forest Products. (1-9) Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years). All Terms.

Department of Forestry

FO 1101. Forest Resources Survey. (1) One hour lecture. Survey of the professional resource manager's role and career opportunities in providing forest-based goods and services. Not open to Forest Resources majors with senior standing. Fall Only.

FO 2113. Dendrology. (3) (Prerequisites: BIO 1144 or BIO 2113 or equivalent). Two hours lecture. Four hours laboratory. Introduction to the identification and systematic classification of trees and other woody plants. Field exercises to promote the recognition and identification of trees and other woody plants. Fall Only.

FO 2213. Forest Measurements. (3) (Prerequisite: ST 2113 or equivalent). Three hour lecture. Principles of mea-

surement for standing and felled trees. Inventory and sampling theory for forested lands. Spring Only.

FO 2443. Essentials of Biotechnology. (3). Three hour lecture. An introduction to principles and applications of biotechnology.

FO 2990. Special Topics in Forestry. (1-9) Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years). All Terms.

FO 3003. Internship in Forestry. (3) (Prerequisite: Junior standing or consent of instructor). Professional work experience with

APPENDIX II: DESCRIPTION OF CFR COURSES

Department of Forestry

firms or companies, non-governmental organizations, government agencies and other relevant entities. All Terms.

FO 3012. Introduction to Forest Communities. (2) (Prerequisites: PSS 3303/3301, FO 2113). Field exercises to gain practical knowledge of soil-geology-ecology interrelationships through trips to various physiographic regions. **Summer Only.**

FO 3015. Forest Description and Analysis. (5) (Prerequisite: FO 2213, ST 2113). Field and laboratory exercises to gain practical experience with forest and land measurement techniques and equipment. Mapping, inventory, and analysis of forested tracts. **Summer Only.**

FO 3101. Computer Application for Forest Resources Laboratory. (1) (Co-requisite: FO 3102). Two hour laboratory. Practice and demonstration of general and professional software packages used in upper level courses and professional settings in Forest Resources. **Spring Only.**

FO 3102. Computer Applications for Forest Resources. (2) (Prerequisite: Three hours of courses in the College of Forest Resources or consent of instructor. Co-requisite: FO 3101). Two hour lecture. Application of microcomputer concepts in forest resources with emphasis in Forestry and general and professional software packages in professional settings. **Spring Only.**

FO 3113. Forest Recreation Management. (3) Three hour lecture. Studies of the management of forest resources for outdoor recreation. **Fall Only.**

FO 3203. Forest Fire. (3) Two hour lecture. Three hour laboratory. Basic aspects of fire history, fire behavior, fire weather, fire effects, and management of fire. Emphasis on the use of prescribed burning in forest management. **Spring Only.**

FO 4000. Directed Individual Study. Hours and credits to be arranged. All terms.

FO 4113/6113. Forest Resource Economics. (3) (Prerequisites: AEC 2713 or equivalent). Three hour lecture. Basic principles of forest resource valuation; economics applied to production,

conversion, marketing and consumption of forest products and benefits. **Spring Only.**

FO 4123/6123. Forest Ecology. (3) (Prerequisite: FO 3012). Three hour lecture. Four hours laboratory. Natural principles governing establishment, development, and functioning of forest ecosystems. Includes ecology, genetics, physiology, tree growth, reproduction, site classification, stand dynamics, hydrology, nutrition, and succession. **Fall Only.**

FO 4213/6213. Forest Biometrics. (3) (Prerequisite: FO 3102, FO 3101, and FO 3015). Three hour lecture. Applications of mensurational and statistical principles and techniques in determination of forest growth and yield. Advanced topics of forest resource inventory. **Spring Only.**

FO 4221/6221. Practice of Silviculture Laboratory. (1) (Prerequisite: FO 4123/6123, or WFA 4122/4121; Co-requisite: FO 4223/6223). Four hour laboratory. Application of silviculture practices and operations under given forest land management objectives. **Spring Only.**

FO 4223/6223. Practice of Silviculture. (3) (Prerequisite: FO 4123/6123 or WFA 3133 and WFA 4122/4121; Co-requisite: FO 4221/6221). Three hour lecture. Manipulation to obtain desired reproduction and to attain optimum development under given forest land management objectives. **Spring Only.**

FO 4231/6231. Introduction to Wood Supply Systems. (1) (Co-requisite: FO 3015). Investigative field and laboratory exercises used to gain practical knowledge into the structure and performance of wood supply systems. **Summer Only.**

FO 4233/6233. Forest Operations and Harvesting. (3) (Prerequisite: FO 3015, FO 4231/6231, or consent of instructor). Three hour lecture. Study of practical, managerial, and logistic considerations associated with harvesting and other forest operations, as well as their social, environmental and legal influences. **Fall Only.**

FO 4253/6253. Timber Procurement. (3) (Prerequisites: FO 4231/6231, FO 4233/6233). Lectures and field exercises dealing

APPENDIX II: DESCRIPTION OF CFR COURSES

Department of Forestry

with the problems of timber procurement to include planning for harvest, methods of handling and transport, legal and safety considerations. Fall Only.

FO 4313/6313. Spatial Technologies in Natural Resources Management. (3) (Prerequisite: FO 3015 or GR 2313 or consent of instructor). Three hours lecture. Three hour laboratory. Fundamentals of scale, area, height, and stand volume determinations from aerial imagery; planimetric and topographic mapping; image interpretation; GPS and GIS; application to natural resources. Fall Only.

FO 4323/6323. Forest Resource Management. (3) (Prerequisites: FO 4113/6113, FO 4213/6213, FO 4223/6223, FO 4233/6233, FO 4231/6231). Three hour lecture. Three hours laboratory. Application of quantitative decision making techniques to stand-level and forest-wide management problems. Topics include land classification, forest production, optimal rotation analysis, and harvest scheduling. Fall Only.

FO 4343/6343. Forest Administration and Organization. (3) Three hours lecture. Hierarchy and land structuring of forest organizations. Legal aspects of administering forest and holdings.

FO 4353/6353. Natural Resource Law. (3) (Prerequisite: Junior standing or consent of instructor). Three hours lecture. A comprehensive study of the laws relating to natural resources and forestry with emphasis on tort Law, real property law, environmental law, taxation law and contract law. Spring Only.

FO 4411-4441/6411-6441. Remote Sensing Seminar. (1) (Prerequisite: Junior standing). One hour lecture. Lectures by remote sensing experts from industry, academia, and governmental agencies on next-generation systems, applications, and economic and societal impact of remote sensing. May be repeated for credit up to four credits. (Same as PSS 4411-4441, ECE 4411-4441, and GR 4411-4441.) Fall Only.

FO 4413/6413. Natural Resources Policy. (3) (Prerequisite: Senior standing). Three hours lecture. Current topics relating to natural resources policy which affect management decisions and practices in the public and private sectors of natural resources use. Spring Only.

FO 4423/6423. Professional Practice. (3) (Prerequisite: FO 4323/6323). Three hours lecture. Four hours laboratory. Forest resource data collection and analysis. Development of forest resource alternatives and recommendations for a specific forest property. Spring Only.

FO 4443/6443. International Forest Resources and Trade. (3) (Prerequisite: Consent of instructor). Three hours lecture. A study of the world's wood consumption, marketing arrangements, community forestry, and forestry in economic development. Fall Semesters of Odd Years Only.

FO 4453/6453. Remote Sensing Applications. (3) Prerequisites: A basic image interpretation or remote sensing course or consent of instructor). Two hour lecture. Three hour laboratory. An introduction to remote sensing with emphasis on analysis and applications of digital image data in inventory, monitoring, and management of renewable natural resources. Laboratory emphasis is on computer applications and digital techniques of image analysis. Spring Only.

FO 4463/6463. Forest Hydrology and Watershed Management. (3) (Prerequisite: PSS 3303, FO 3012, FO 4123/6123, or consent of instructor). Three hour lecture. Synthesis of current information on the fundamental properties and processes of forest soils, hydrology, and water quality with emphasis on watershed and ecosystem management factors. Spring Only.

FO 4471/6471. GIS for Natural Resource Management Laboratory. (1) (Co-requisite: FO 4472/6472. Prerequisite: Junior standing). Three hour laboratory. Computer laboratory exercises that stress development, management and use of digital geographic data for management of natural resources. Spring Only.

FO 4472/6472. GIS for Natural Resources Management. (2) (Co-requisite: FO 4471/6471. Prerequisite: Junior standing). Two hour lecture. Introduction to geographic information systems (GIS) with emphasis on collection, encoding, storage, retrieval, and analysis of spatial data for use in management of natural resources. Spring Only.

FO 4483/6483. Forest Soils. (3) (Prerequisite: PSS 3303, FO 3012, FO 4123/6123, or consent of instructor). Three hour lecture. Synthesize current information on fundamental properties

APPENDIX II: DESCRIPTION OF CFR COURSES

Department of Forestry

and processes of forest soils with emphasis on applications to silviculture, soil conservation, and sustainable management of forested ecosystems. Spring Semesters of Odd Years Only.

FO 4990/6990. Special Topics in Forestry. (1-9) Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years). All Terms

Department of Wildlife, Fisheries and Aquaculture

WFA 1102. Wildlife and Fisheries Profession. (2) (Prerequisite: Freshman or Sophomore standing). Two hour lecture. Orientation to the interdisciplinary and applied nature of wildlife and fisheries management and related fields, emphasizing the department, college, and university; student roles and responsibilities; and career opportunities. Fall Only.

WFA 4013. Introduction to Aquaculture. (3) Correspondence course introducing basic principles of aquaculture production and management. Designed primarily for extension, education and other professionals and prospective fish producers. For Continuing Education Students Only.

WFA 2990. Special Topics in Wildlife and Fisheries. (1-9) Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years). All Terms.

WFA 4121. Wildlife and Fisheries Biometrics Laboratory. (1) (Prerequisite: ST 3123; Co-requisite: WFA 4122). Four hour laboratory alternate weeks. Application of basic statistical analytical tools to address wildlife and fisheries management/research questions. Fall Only.

WFA 3000. Internship in Wildlife, Fisheries or Aquaculture. (1-4) (Prerequisite: Junior Standing). Professional work experience with governmental or private agencies. (Hours and credits to be arranged). All Terms.

WFA 4122. Wildlife and Fisheries Biometrics. (2) (Prerequisite: ST 3123; Co-requisite: WFA 4121). Two hour lecture. Application of basic statistical analytical tools to address wildlife and fisheries management/research questions. Fall Only.

WFA 3013. Human-Wildlife Conflicts Internship. (3) (Prerequisite: Consent of Instructor). Internship. Professional experience in human-wildlife conflict management or research. All Terms.

WFA 4133/6133. Fisheries Science. (3) (Prerequisite: ST 3123 or equivalent). Two hour lecture. Four hour laboratory, alternate weeks. Study of the biological parameters of fish populations. Spring Semesters of Even Years Only.

WFA 3031. Introductory Wildlife/Fisheries Practices. (1) (Prerequisite: Junior standing). Field exercises and practical exposure to research and management of wildlife and fish species and habitats in Mississippi. Summer Only.

WFA 4153. Principles of Wildlife Conservation and Management. (3) Two hour lecture. Four hour laboratory on alternate weeks. Principles of game management; habitat improvement; wildlife techniques; public relations. Fall Only.

WFA 3133. Applied Aquatic and Terrestrial Ecology. (3) (Prerequisite: BIO 1134 and BIO 1144). Two hour lecture. Four hour laboratory, alternate weeks. The application of ecological principles which serve as a basis for the management of wildlife and fisheries in terrestrial and aquatic habitats. Fall Only.

WFA 4173/6173. Fish Physiology. (3) Two hour lecture. Four hour laboratory, alternate weeks. Basic anatomy and physiology of major systems in fish: integration of the physiological systems as they function during development, growth and maturation. Fall Semesters of Even Years Only.

WFA 4000. Directed Individual Study. Hours and credits to be arranged. All Terms.

WFA 4183/6183. Principles and Practices of Aquaculture. (3) Two hour lecture. Four hours laboratory alternate weeks. Prin-

APPENDIX II: DESCRIPTION OF CFR COURSES

Department of Wildlife, Fisheries and Aquaculture

principles and practices of aquaculture applied to the farming of marine and freshwater species of fish, crustaceans, and mollusks throughout the world. Spring Semesters of Even Years Only.

WFA 4221/6221. Limnology Laboratory. (1) (Prerequisite: WFA 3133 or consent of instructor; Co-requisite: WFA 4222/6222). Four hour laboratory skills required to evaluate freshwater ecosystems. Fall Only.

WFA 4222/6222. Limnology. (2) (Prerequisite: WFA 3133 or consent of instructor; Co-requisite: WFA 4221/6221). Two hour lecture. The physical, chemical and biological processes underlying the function and productivity of freshwater ecosystems. Fall Only.

WFA 4223/6223. Identification of Aquatic and Terrestrial Plants. (3) (Prerequisite: WFA 3133). Two hours lecture. Four hour laboratory weekly. Identification, taxonomy, ecology, and management of wildlife food and cover plants. Fall Semesters of Odd Years Only.

WFA 4243. Wildlife Techniques. (3) (Prerequisite: Junior or Senior standing or Consent of instructor). Two hour lecture. Four hour laboratory. Contemporary research and management techniques and tools for wildlife populations and habitats. Fall Only.

WFA 4253/6253. Application of GIS in Wildlife and Fisheries. (3) (Prerequisite: Sr. standing or consent of instructor). Two hour lecture. Four hour laboratory weekly. Practical application of global positioning systems and geographic information systems to wildlife and fisheries management. (Limited to WFA majors) Spring Only.

WFA 4263/6263. Wildlife Diseases. (3) Two hour lecture. Four hour laboratory, alternate weeks. Effects and management of parasites and diseases in wild bird and mammal populations. (Same as CVM 4263/6263). Spring Semesters of Even Years Only.

WFA 4273. Ecology and Management of Human-Wildlife Conflicts. (3) (Prerequisite: WFA 1102 and WFA 3133, or consent of instructor). Ecological principles and management approaches

to resolve human-wildlife conflicts. Fall Semesters of Odd Years Only

WFA 4283. Human-Wildlife Conflict Techniques. (3) (Prerequisite: WFA 1102 and WFA 3133, or consent of instructor). Discussion, demonstration, and application of techniques used to resolve human-wildlife conflicts. Fall Semesters of Odd Years Only.

WFA4313/6313. Fisheries Management. (3) (Prerequisite: WFA 3133 or consent of instructor). Two hour lecture. Laboratories alternate weeks. Principles of fisheries management and methods for assessment and analysis of fish populations and aquatic habitats. Fall Only.

WFA 4323/6323. Wildlife Nutrition and Physiology. (3) Two hour lecture. Four hour laboratory, alternate weeks. Nutrition and physiology of aquatic and terrestrial wildlife, with emphasis on understanding life history strategies and functional adaptations to habitat and environmental variation. Spring Semesters of Odd Years.

WFA 4353/6353. Fish and Wildlife Policy and Law Enforcement. (3) (Prerequisite: Senior standing or Consent of instructor). Three hour lecture. A survey of the major content areas of fish and wildlife policy and law enforcement. Emphasis is on the fundamentals of conservation policies and laws. Fall Only.

WFA 4363/6363. Wildlife and Fisheries Administration and Communication. (3) (Prerequisite: Junior standing.). Two hour lecture. Three and one half hour lab, alternate weeks. Administrative and communicational techniques and skills in the workplace and political environments of wildlife and fisheries organizations. Spring Only.

WFA 4373/6373. Principles and Practices of Conservation in Agricultural Landscapes. (3) (Prerequisite: consent of instructor). Two hour lecture. Four hour laboratory, alternate weeks. Introduces theoretical background for ecological conservation in agricultural landscapes with focus on the role of USDA Farm Bill programs in achieving conservation goals. Spring Semesters of Odd Years Only.

APPENDIX II: DESCRIPTION OF CFR COURSES

Department of Wildlife, Fisheries and Aquaculture

WFA 4383/6383. Wetlands Ecology and Management. (3) Two hour lecture. Four hour laboratory, alternate weeks. Hydrology, soils and biogeochemistry of wetlands; structure and function of important wetland types; wetland management for wildlife and fisheries; wetland creation and restoration. Fall Semesters of Even Years Only.

WFA 4394/6394. Waterfowl Ecology and Management. (4) (Prerequisite: WFA 3133, WFA 4153, Senior standing or consent of instructor). Three hour lecture. Four hour laboratory. Annual ecology of North American waterfowl, habitat and population ecology, and management, waterfowl identification, field trips, management plan, and current issues. Fall Semesters of Odd Years Only.

WFA 4423. Herpetology. (3) (Prerequisite: 8 hours of zoology). Two hour lecture. Four hour laboratory, alternate weeks. Evolution, systematics, biology and ecology of reptiles and amphibians. Spring Semesters.

WFA 4433. Mammalogy. (3) (Prerequisite: 8 hours of zoology). Two hour lecture. Three hour laboratory every week. Evolution, systematics, and ecology of mammals, with emphasis on North American groups. Fall Semesters.

WFA 4443. Ornithology. (3) (Prerequisite: BIO 3524). Two hour lecture. Three hour laboratory every week. Recent and fossil avifauna of the world; its origin, distribution, classification, and biology. Spring Semesters.

WFA 4453. Ichthyology. (3) (Prerequisite: 8 hours of zoology). Two hour lecture. Three hour laboratory. Structure, evolution, classification and life histories of fishes of the world with emphasis on North American freshwater forms. Spring Semesters.

WFA 4463. Human Dimensions of Fish and Wildlife Management. (3) (Prerequisite: Junior or Senior standing or consent of instructor). Three hour lecture. Survey of the major content areas of human dimensions. Emphasis on the considerations and implications associated with measuring, evaluating, and influencing people's attitudes and behaviors. Spring Semester of Even Years Only.

WFA 4473. Wildlife and Fisheries Practices. (3) (Prerequisite: Senior standing). Two hour lecture. Four hour laboratory. The integration of principles of ecology, wildlife and fisheries techniques and policies for effective planning and implementation of natural resource management. Spring Only.

WFA 4483/6483. Seminar in Tropical Biology. (3) (Prerequisite: WFA 3133). One hour lecture. Four hour laboratory. An introduction to the composition and function of tropical ecosystems of the New World. Listed on the Study Abroad/Exchange Campus. Spring Semesters of Even Years Only.

WFA 4484/6484. Upland Avian Ecology and Management. (3) (Prerequisites: WFA 3133 and WFA 4153 and Senior standing or consent of instructor). Three hour lecture. Four hour laboratory. The application of ecological principles to management of wildlife populations, focusing on avian species and communities inhabiting upland ecosystems. Spring Semesters of Even Years Only.

WFA 4494/6494. Large Mammal Ecology and Management. (3) (Prerequisites: WFA 3133 and WFA 4153 and Senior standing). Three hour lecture. Four hour laboratory, alternate weeks. Ecological principles and applied methods used in the management of large mammals. Fall Semesters of Even Years Only.

WFA 4512/6512. Advanced Topics in Human-Wildlife Conflicts I. (2) (Prerequisite: WFA 4273, WFA 4283, or consent of instructor). Discussion, synthesis and presentation of current issues in Human-Wildlife Conflicts. Development of manuscripts and research proposal. Fall Semesters of Even Years Only.

WFA 4521/6521. Advanced Topics in Human-Wildlife Conflicts II. (1) (Prerequisite: WFA 4512). Conduct of data collection, analyses, interpretation, and writing of scientific manuscripts in instructor-approved area of human-wildlife conflicts. Spring Semesters of Odd Years Only

WFA 4990/6990. Special Topics in Wildlife and Fisheries. (1-9) Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years). All Terms.

APPENDIX III: CFR ADVISOR LIST

Forest Products			
Name	Phone Number	Office Location	Option Advised
Barnes, Michael	662.325.3056	5102 FPL Bldg. #5	Forest Products
Borazjani, Hamid	662.325.3106	3207 FPL Bldg. #3	Forest Products
Diehl, Susan	662.325.3101	3206 FPL Bldg. #3	Forest Products
Shi, Sheldon	662.325.3110	222 Franklin Center	Forest Products
Shmulsky, Rubin	662.325.2243	203 Franklin Center	Forest Products
Schultz, Tor	662.325.3136	3110B FPL Bldg. #3	Forest Products
Seale, Dan	662.325.3072	218 Franklin Center	Forest Products
Zhang, Jilei	662.325.9413	113 Franklin Center	Forest Products
Forestry			
Evans, David	662.325.2796	353 Thompson Hall	Wildlife Management
Ezell, Andy	662.325.1688	369 Thompson Hall	Wildlife Management
Fan, Zhaofei	662.325.5809	327 Thompson Hall	Forest Management
Frey, Brent	662.325.2775	345 Thompson Hall	Forest Management
Grace, Laura	662.325.8919	309 Thompson Hall	Forest Products
Grado, Stephen	662.325.2792	357 Thompson Hall	Urban Forestry and Environmental Conservation
Grala, Robert	662.325.7039	343 Thompson Hall	Wildlife Management
Grebner, Don	662.325.0928	329 Thompson Hall	Wildlife Management
Hatten, Jeff	662.325.7481	347 Thompson Hall	Wildlife Management
Matney, Tom	662.325.2791	319 Thompson Hall	Forest Management
Munn, Ian	662.325.4546	349 Thompson Hall	Forest Management
Roberts, Scott	662.325.3044	351 Thompson Hall	Environmental Conservation
Schultz, Emily	662.325.2697	315 Thompson Hall	Wildlife Management
Stuart, Bill	662.325.0913	305 Thompson Hall	Forest Management
Sun, Changyou	662.325.7271	363 Thompson Hall	Wildlife Management
Yuceer, Cetin	662.325.2795	317 Thompson Hall	Forest Management
Wildlife, Fisheries, and Aquaculture			
Allen, Peter	662.325.4768	261 Thompson Hall	Pre-Veterinary
Belant, Jerry	662.325.2996	251 Thompson Hall	Pre-Veterinary and Human Wildlife Conflicts
Davis, Brian	662.325.4790	249 Thompson Hall	Wildlife, Fisheries and Aquaculture Science
Demarais, Steve	662.325.2618	247 Thompson Hall	Wildlife, Fisheries and Aquaculture Science
Dibble, Eric	662.325.7494	217 Thompson Hall	Wildlife, Fisheries and Aquaculture Science
Hunt, Kevin	662.325.0989	223 Thompson Hall	Conservation Law Enforcement
Jackson, Don	662.325.7493	215 Thompson Hall	Wildlife, Fisheries and Aquaculture Science and Pre-Veterinary
Jones, Jeanne	662.325.2219	277 Thompson Hall	Wildlife, Fisheries and Aquaculture Science
Kaminski, Rick	662.325.2623	249 Thompson Hall	Wildlife, Fisheries and Aquaculture Science
Kröger, Robbie	662.325.4731	223 Thompson Hall	Pre-Veterinary
Bruce Leopold	662.325.3830	201 Thompson Hall	Pre-Veterinary
James Martin	662.325.7606	211 Thompson Hall	Wildlife, Fisheries and Aquaculture Science and Wildlife Agriculture Conservation
Jessica Tegt	662.325.1000	210 Thompson Hall	Wildlife, Fisheries and Aquaculture Science and Human Wildlife Conflicts
Francisco Vilella	662.325.0784	263 Thompson Hall	International Studies and Non Game Conservation
Riffell, Samuel	662.325.0392	229 Thompson Hall	Pre-Veterinary and Wildlife Agriculture Conservation
Wang, Guiming	662.325.2619	273 Thompson Hall	Wildlife and Fisheries Science

APPENDIX IV: CFR TEACHING FACULTY

Department of Forest Products

H. Michael Barnes

B.S.F., M.S., Ph.D., Professor

Courses: FP 4013/6013—Wood Anatomy;

FP 4213/6213—Wood Deterioration and Preservation

Research: Wood preservation, effect of treatments of wood properties, treatment mechanics, wood physics, durability of wood and wood-based composites

Hamid Borazjani

B.S. M.A., Ph.D., Professor

Courses: FP 8133—Environmental Issues in Forest Products

Research: In-situ and ex-situ bioremediation of organic chemical wastes (PAHs, PCP, PCBS, TPH) in soil, water, wood, and sludges; Bioremediation of wood treating chemicals, biotechnology, environmental microbiology

Susan V. Diehl

B.S., M.S., Ph.D., Associate Professor

Courses: FP 1103—Wood Technology and Products; FP

4313/6313—Environmental Principles; FP 8133—Environmental Issues in Forest Products

Research: Molecular detection and identification of wood decay fungi and related microbial communities, microbial breakdown of wood preservatives, tree host responses to the Sudden Oak Death fungus

David Jones

B.S., M.S.F., Ph.D., Assistant Extension Professor

Courses: FP 4013/6013—Wood Anatomy; FP 4123/6123—Lumber Manufacturing

Research: Wood quality and rapid assessment techniques of wood properties

Moon G. Kim

B.S., Ph.D., Professor

Courses: FP 4113/6113—Adhesives and Finishes for Wood

Research: Wood adhesives, wood coatings, polymer chemistry, wood composite

Shane Kitchens

B.S., M.S., Ph.D., Assistant Professor

Courses: FP 1103—Wood Technology and Products; FP

4123/6123—Lumber Manufacturing; FP 4213/6213—Wood

Deterioration and Preservation; FP 4413—Professional Practices

Research: Log and lumber quality; Wood protection

Darrel D. Nicholas

B.S., M.S., Ph.D., Professor

Courses: FP 4213/6213—Wood Deterioration and Preservation;

FP 8111—Research Seminar

Research: Wood preservation, dimensional stabilization

Lynn Prewitt

B.S., M.S. Ph.D., Assistant Research Professor

Courses: FP 4023/6023—Wood Chemistry

Research: Chemical analyses of wood preservatives and their degradation products; Molecular identification of microbial communities during wood decay; Enzymatic wood decay processes

Tor P. Schultz

B.S., M.S., Ph.D., Professor

Courses: FP 8111—Graduate Seminar; FP 8123—Lignocellulosic Chemistry

Research: Wood chemistry and preservation

R. Daniel Seale

B.S., M.S., Ph.D., Professor

Courses: FP 4253/6253—Quantitative Methods in

Forest Products and Furniture; FP 4353/6353—Forest Products Marketing

Research: Manufacturing economics; Composite wood products development; Testing; Commercialization

Sheldon Q. Shi

B.S., M.S., Ph.D., Assistant Professor

Courses: FP 4143/6143—Composite Wood Products

Research: Design and processing of wood-based composites/engineered wood products, adhesion and interfacial bonding, durability of wood composites, wood-polymer composites

APPENDIX IV: CFR TEACHING FACULTY

Department of Forest Products

Rubin Shmulsky

B.S., M.S., Ph.D., Department Head and Professor

Courses: FP 4123/6123—Lumber Manufacturing; FP 4323/6323—Physical Properties of Wood; FP 8113—Advanced Wood Physics

Research: Production and drying of solid and wood-based products

Philip H. Steele

B.A., M.S., Ph.D., Professor

Courses: FP 4123/6123—Lumber Manufacturing

Research: Forest-based bio energy, nondestructive evaluation of forest products, lumber manufacturing production economics, software analysis of manufacturing processes

Jilei Zhang

B.S., M.S., Ph.D., Professor

Courses: FP 4223/6223—Furniture Production I; FP 4233/6233—Furniture Production II; FP 4423/6423—Mechanical Properties of Wood

Research: Wood engineering, strength design furniture

Department of Forestry

David L. Evans

B.S., M.S., Ph.D., Professor

Courses: FO 2113—Dendrology; FO 4453/6453—Remote Sensing Applications; FO 8173—Advanced Spatial Technologies

Research: Remote sensing/GIS applications in forest inventory, monitoring and management

Andrew W. Ezell

B.S., M.F.S., Ph.D., Professor and Department Head

Courses: FO 3012—Introduction to Forest Communities; FO 4223/6223—Practice of Silviculture; FO 8213—Advanced Silviculture

Research: Regeneration and management of bottomland hardwood, competition control in forested areas, hardwood plantation establishment

Joseph (Zhaofei) Fan

B.S., M.S., Ph.D., Assistant Professor

Courses: FO 4472/4471/6472/6471—GIS for Natural Resource Management; FO 8313—Spatial Statistics for Natural Resources

Research: Forest biometrics, spatial statistics/ landscape models/ GIS applications in natural resources, forest health monitoring, tree nutrition, fires and forest regeneration

Brent R. Frey

B.S., B.A., M.S., Ph.D. Candidate, Assistant Professor

Courses: FO 4223/6223—Practice of Silviculture;

Research: Regeneration ecology, stand dynamics, hardwood silviculture

Laura A. Grace

B.S., M.S., Ph.D., Professor

Courses: FO 4231/6231—Introduction to Wood Supply Systems; FO 4233/6233— Forest Operations and Harvesting

Research: Wood supply systems, timber harvesting and transportation

Stephen C. Grado

B.S., M.S., Ph.D., Professor

Courses: FO 1101—Forest Resource Survey; FO 3113—Forest Recreation Management; FO 8163—Nonmarket Forest Values

Research: Multiple-use forestry, outdoor/forest recreation, wildlife economics, human dimensions of natural resources, forest certification, urban and community forestry, and eco-tourism

APPENDIX IV: CFR TEACHING FACULTY

Department of Forestry

Robert K. Grala

M.S., M.S., Ph.D., Associate Professor

Courses: FO 4113/6113—Forest Resource Economics; FO 8143—Advanced Forest Economics

Research: Forestry-based economic development, business clustering within the forest sector, economics of carbon sequestration, utilization of woody biomass for bioenergy, ecosystem services, agroforestry, and valuation of forest non-market goods and services

Donald L. Grebner

B.S., M.S., M.A., Ph.D., Professor

Courses: FO 4323/6323—Forest Resource Management; FO 4443/6443—International Forest Resources and Trade

Research: Forest management, natural resource and forest economics, carbon sequestration, urban and community forestry, international forestry

Jeffery A. Hatten

B.S., Ph.D., Assistant Professor

Courses: FO 3012—Introduction to Forest Communities; FO 4463/6463—Forest Hydrology and Watershed Management; FO 4483/6483—Forest Soils

Research: Forest soils and hydrology; watershed management and organic carbon

Thomas G. Matney

B.S., M.S., Ph.D., Professor

Courses: FO 2213—Forest Measurements; FO 3015—Forest Description and Analysis; FO 4213—Forest Biometrics; FO 8153—Quantitative Forest Ecology; FO 8233—Advanced Forest Inventory

Research: Mathematical, statistical, and computer technologies to solution of complex forestry problems and to problems outside the realm of forestry

Ian A. Munn

B.A., M.S., M.B.A., Ph.D., Professor

Courses: FO 3003—Internship in Forestry; FO 4423/6423—Professional Practices; FO 8243—Advanced Forest Resource Management and Planning

Research: Natural resource economics, forest and wildlife valuation, land use change, forest products industry assessment, nonindustrial private forest landowner issues

Scott D. Roberts

B.S., M.F., Ph.D., Professor

Courses: FO 3203—Forest Fire; FO 4123/6123—Forest Ecology; FO 8111—Graduate Seminar

Research: Ecology and silviculture of southern forests

Emily B. Schultz

B.S., M.S., M.S.C., Ph.D., Professor

Courses: FO 3102/3101—Computer Applications in Forest Resources; FO 8211—Graduate Seminar

Research: Computer applications, forest inventory, growth and yield, black walnut

William B. Stuart

B.S., M.F., Ph.D., Professor

Courses: FO 42316231—Introduction to Wood Supply; FO 4253/6253—Timber Procurement

Research: Timber harvesting; Timber procurement; Forest engineering/operations

Changyou Sun

B.S., M.S., Ph.D., Professor

Courses: FO 4353/6353—Natural Resource Law; FO 4413/6413—Natural Resources Policy

Research: Forest policy, law, and environment economics, international trade of forest products

APPENDIX IV: CFR TEACHING FACULTY

Department of Wildlife, Fisheries and Aquaculture

Peter J. Allen

B.S., M.S., Ph.D., Assistant Professor

Courses: WFA 4173/6173—Fish Physiology; WFA 4183/6183—Principles of Aquaculture; WFA 8212—Wildlife and Fisheries Communications

Research: Ecophysiology; Fish Physiology; Fish Culture

Jerrald Belant

B.S., M.S., Ph.D., Associate Professor

Courses: WFA 3013—Human-Wildlife Conflicts Internship; WFA 4273/6273—Ecology and Management of Human-Wildlife Conflicts; WFA 4433/6433—Mammalogy; WFA 4512/6512—Advanced Topics in Human-Wildlife Conflicts I; WFA 4521/6521—Advanced Topics in Human-Wildlife Conflicts II;

Research: Carnivore ecology and management, human-wildlife interactions

Stephen Demarais

B.S., M.S., Ph.D., Professor

Courses: WFA 4323/6323—Wildlife Nutrition and Physiology; WFA 4263/6263—Wildlife Diseases; WFA 4494/6494—Large Mammal Ecology and Management

Research: Big game ecology and management

Brian Davis

B.S., M.S., Ph.D., Assistant Professor

Courses: WFA 4153/6153—Principles of Wildlife Conservation and Management; WFA 4394/6394—Waterfowl Ecology and Management

Research: Waterfowl and wetland systems ecology and management

Eric D. Dibble

B.S., M.S., Ph.D., Professor

Courses: WFA 4453/6453—Ichthyology; WFA 8343—Concepts in Ecology and Natural Resource Management

Research: Fish and freshwater ecology, aquatic habitat management and restoration, invasive aquatic plants

Kris C. Godwin

B.S., M.S., Adjunct Assistant Professor

Courses: WFA 4283/6283—Human-Wildlife Conflict Techniques

Robert Griffin

B.S., M.S., Adjunct Assistant Professor

Courses: WFA 4363/6363—Wildlife and Fisheries Administration and Communication

Kevin M. Hunt

B.S., M.S., Ph.D., Associate Professor

Courses: WFA 1102—Wildlife and Fisheries Profession; WFA 4463/6463—Human Dimensions of Fish and Wildlife Management;

Research: Human dimensions of wildlife and fisheries management, conservation law enforcement, social economic issues in natural resources management

Donald C. Jackson

B.S., M.S., Ph.D., Professor

Courses: WFA 4133/6133—Fisheries Science; WFA 4222/4221—Limnology and Lab; WFA 8273—Advanced Fisheries Management;

Research: International and domestic small-scale capture fisheries

W. Daryl Jones

B.S., M.B.A., M.S., Ph.D., Associate Extension Professor

Courses: WFA 3141—Seminar in Fisheries and Wildlife; WFA 4353/6353—Fish and Wildlife Policy and Law Enforcement

Research: Fee access wildlife recreation and wetland functional assessment

Jeanne C. Jones

B.S., M.S., Ph.D., Professor

Courses: WFA 1102—Wildlife and Fisheries Profession; WFA 4223/6223—Identification of Aquatic and Terrestrial Plants; WFA 8544—Habitat Management and Restoration

Research: Non-game and small game habitat development, plant ecology, restoration ecology, endangered species

APPENDIX IV: CFR FACULTY

Department of Wildlife, Fisheries and Aquaculture

Richard M. Kaminski

B.S., M.S., Ph.D., Professor and The James C. Kennedy Endowed Chair in Waterfowl and Wetlands

Courses: WFA 4383/6383—Wetlands Ecology and Management;

Research: Waterfowl and wetland systems ecology and management

Robert C. Kröger

B.S., M.S., Ph.D., Assistant Professor

Courses: WFA 3133—Applied Aquatic and Terrestrial Ecology

Research: Aquatic ecosystems, nutrient cycling, water quality

Bruce D. Leopold

B. S., M.S., Ph.D., Professor and Department Head

Courses: WFA 3000—Wildlife and Fisheries Internship;

WFA 8144—Wildlife Population Dynamics

Research: Predator ecology, predator-prey relations, habitat assessment and management, wildlife biometrics, population ecology, and computer applications

James Martin

B.S., M.S., Ph.D., Assistant Professor

Courses: WFA 4153/6153—Principles of Wildlife Conservation;

WFA 8134—Research Methods in Wildlife and Fisheries Sciences

Research: Effects of land use and harvests on Gallinaceous and grassland songbirds and perceived and realized predation risks to birds.

Leandro E. Miranda

B.S., M.S., Ph.D., Professor

Courses: WFA 8413—Advanced Fishery Science;

WFA 8223—Management of Impounded River Systems

Research: Environmental problems of fish and reservoir fisheries

Sam Riffell

B.A., M.S., Ph.D., Associate Professor

Courses: WFA 4443/6443—Ornithology;

WFA 4373/6373—Principles and Practices of Conservation in Agricultural Landscapes; WFA 4443—Ornithology; WFA 3000-Internship

Research: Wildlife conservation in agricultural landscapes; landscape ecology, road ecology, land ecology, and technology in education

Harold L. Schramm

B.S., M.S., Ph.D., Professor

Courses: WFA 4133/6133—Fisheries Management

Research: Fish population ecology and recreational fisheries management

Bronson Strickland

B.S., M.S., Ph.D., Associate Extension Professor

Courses: WFA 4473/6473—Wildlife and Fisheries Practices

Research: Large mammal ecology and management, and wildlife damage management

Jessica Tegt

B.S., M.S., Ph.D.,

Courses: WFA 4273—Ecology and Management of Human-Wildlife Conflicts

Research: Human-wildlife conflict resolution and youth education

Guiming Wang

B.S., M.S., Ph.D., Assistant Professor

Courses: WFA 4122/4121/6122/6121—Wildlife and Fisheries Biometrics

Research: Wildlife ecology and management, wildlife population modeling, ecological modeling, and biometrics

Francisco Vilella

B.S., M.S., Ph.D., Professor

Courses: WFA 8234—Conservation Biology

Research: Conservation biology, rare species ecology and management, tropical wildlife management

