

Natural Resource Data Analysis (FOR 321) Spring 2023
(4 credits, three 1-hour lectures, one 2-hour lab per week)

INSTRUCTOR: Dr. Paul Doruska
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Class Time:

Lectures:	Mon – Wed – Fri	8:00 am – 8:50 am	TNR 170
Lab Section 2:	Wed.	9:00 am – 10:50 am	TNR 356 (computer lab)
Lab Section 3:	Mon.	1:00 pm – 2:50 pm	CCC 307 (computer lab)
Lab Section 4:	Tues.	1:00 pm – 2:50 pm	TNR 356 (computer lab)

Final Exam: Thurs 5/18/23 2:45 pm – 4:45 pm TNR 170

Student Hours: Monday 9:00-9:50am and Tuesday 12:00 – 12:50pm

Prerequisite(s): MATH 95 or MATH 107 or suitable placement score.
Note: May not earn credit in both FOR 321 and MATH 255

Text: *Elementary Statistics: A Step by Step Approach* (9th Edition) by Allan G. Bluman

Indigenous Peoples Lands Recognition

The UW-Stevens Point community recognizes that the University of Wisconsin-Stevens Point occupies the lands of the Ho Chunk and Menomonee people. Please take moments throughout this course to acknowledge and honor this ancestral Ho Chunk and Menomonee land, and the sacred lands of all 14 indigenous peoples.

GEP – Quantitative

Literacy Designation: This course qualifies for Quantitative Literacy within the University of Wisconsin-Stevens Point General Education Program. Therefore, students in this class will:

- (1.) *Select, analyze, and interpret appropriate numerical data used in everyday life in numerical and graphical format,*
- (2.) *Identify and apply appropriate strategies of quantitative problem solving in theoretical and practical applications, and*
- (3.) *Construct a conclusion using quantitative justification.*

These three Quantitative Literacy Learning Outcomes will be specifically addressed and achieved in this course as outlined in the more specific course learning outcomes appearing on the next page.

Course

Learning Outcomes: Students in this course will learn applied statistical principles and how to properly apply them in solving/addressing natural resource-based problems/needs. Upon completion of this course, students will be able to:

- (1.) *Select, analyze, and interpret appropriate numerical data used in everyday life, including natural resources, in numerical and graphical format* by using descriptive statistics to quantitatively summarize populations via sampling techniques, measures of center & variation, and graphics,
- (2.) *Identify and apply appropriate strategies of quantitative problem solving in theoretical and practical applications* by:
 - (a.) applying rules of probability, and discrete & continuous distributions to determine probabilities in the context of everyday life and natural resources and
 - (b.) using correlation and regression analysis to describe the relationship between two or more natural resource attributes or to predict the value of one given the values of the others,
- (3.) *Construct a conclusion using quantitative justification* by:
 - (a.) using one- and two-sample hypothesis tests to make statistically sound comparisons about means, variation, and proportions and to draw statistically sound conclusions therein and
 - (b.) Using analysis of variance to perform hypothesis tests to make statistically sound conclusions when comparing more than two means, and
- (4.) Use Microsoft Excel® to assist in outcomes (1.) through (3.) where appropriate.

Natural resource professionals and others with an interest in natural resources use these skills and the information gathered via these techniques to provide the information needed for wise stewardship of natural resources. Therefore, by gaining confidence in these skills, students will be establishing the groundwork for a lifetime of providing, interpreting, and understanding the information needed to make a variety of natural resource stewardship-based decisions.

Society of American Foresters Accreditation/Program Competencies:

If you are a forestry major you know your degree is accredited by the Society of American Foresters. That body requires that accredited educational programs meet a host of foundational education competencies and discipline-based educational competencies nested within five overarching standards. This course specifically contributes to the following foundational competencies:

C4-1. The curriculum must provide a variety of educational experiences including lectures, discussion, computer applications, individual and group projects, and laboratory and field exercises and experiences.

C4-3. The curriculum must include appropriate foundational prerequisites in the biological, physical, mathematical, and social sciences, humanities, and communications to support student success in the professional curriculum.

C4-6. The curriculum must foster analytical and critical reasoning skills, including systematic problem solving and decision making.

Grading:

There will be three timed mid-semester exams (each worth 50 POINTS) and a timed 75 POINT, comprehensive final exam over the course of the semester. Exam material will include material discussed in lectures, labs, and any assigned readings. Lecture and lab assignments and announced quizzes, worth 20 points each and collectively 10 in total, will be worth 200 POINTS total. When determining final grades, the weight of one's lowest mid-semester exam score will carry $\frac{1}{2}$ the weight of the other two mid-semester exam scores, and one's lowest lecture or lab assignment score will be dropped.

COURSE TOTAL POINTS (after adjustments/drops): 380 points.

Normally, cumulative-weighted percentages will be rounded to the nearest tenth and course grades will be assigned as follows (instructor reserves the right to curve final cumulative grades, *only* to your benefit):

92.6% or higher	A	77.6% to 79.5%	C+	
89.6% to 92.5%	A-	72.6% to 77.5%	C	
87.6% to 89.5%	B+	69.6% to 72.5%	C-	
82.6% to 87.5%	B	67.6% to 69.5%	D+	
79.6% to 82.5%	B-	59.6% to 67.5%	D	Less than 59.6% F

Instructors' tips:

- (1.) Come to class willing to learn, be curious and have fun! I certainly plan to do so.
- (2.) Keep up with the readings and the homework/lab assignments.
- (3.) Partial credit, within reason, is often awarded. Therefore, you are *strongly encouraged* to show your work at all times.

Instructors' rules:

- (1.) Discussion of homework and lab assignments between students is encouraged, however all work (unless part of any group projects) must be done independently.
- (2.) Cheating and/or plagiarism will not be tolerated (see also the Professionalism Statement)
- (3.) If you have to miss an exam based on a medical or family emergency, do your best to try to notify me ahead of time to explain why you will be unable to take the exam at the scheduled time. If you are unable to notify me ahead of time, please notify me as soon as possible after the exam time. Unexcused absences from exams result in zeroes.
- (4.) Homework and lab assignments are due at respective due dates/times. Any assignment turned in any time AFTER the designated time will be considered late. Late assignments will not be accepted.
- (5.) All work is expected to be neat and well organized. Work that is sloppy and/or difficult to read will be returned with a score of 0.

Attendance Policy

Lectures and laboratory sessions are very important (you will learn concepts in lectures and put them into practice in labs where you will also learn/review/and have hands on experiences with statistical applications) and every effort should be made to attend scheduled lectures and labs. As a student, and more so as a professional, you have the responsibility to attend all scheduled class meetings. Absences from lab due to illness, family emergency, or University sponsored activities will be excused provided a written explanation, provided by the student, is given to and acknowledged by the instructor prior to the intended absence except for emergencies in which case an explanation should be turned in as soon as practical. If you are feeling ill please do stay away from our F2F meetings out of respect to the others (again, part of being a professional) – just let your instructor know in advance if possible. If unexcused absences occur on days when assignments are due, then it is your responsibility to see that the assignments are turned in by the assigned due date/time in order to receive credit. Attending a lab section other than your registered section will not be allowed unless pre-approved by the instructor.

If you are quarantined/isolated as part of COVID protocols. It is your responsibility to inform your instructors (it will be kept confidential, have no worries there) but will allow for better delivery of course material when in quarantine/isolation. The Dean of Students Office determined that this notification is the student's responsibility.

Missing lecture and/or discussions HABITUALLY almost always results in lower grades! You are strongly encouraged to attend all scheduled class meetings.

Students with Disabilities:

The university has a legal responsibility to provide accommodations and program access as mandated by Section 504 and the Americans with Disabilities Act (ADA). The university's philosophy is to not only provide what is mandated, but also convey its genuine concern for one's total well-being. If accommodations are needed, please contact the instructor as well as the Disability Resource Center (DRC), 108 Collins Classroom Center, voice (715) 346-3365; email: drc@uwsp.edu

Inclusive Environment:

This course (and our university!) is an inclusive environment. This course might foster discussion, with respectful exchange of ideas and opinions. Disrespect and disparagement will not be tolerated. We have a great opportunity to learn from each other, and to appreciate and understand our differences. See also the CNR Principles of Professionalism, the Society of American Foresters Code of Ethics, and the Forestry Discipline's anti-harassment statement.

Required Statement on Emergency Preparedness:

"In the event of a medical emergency, call 911 or use an emergency phone located outside TNR 151, TNR 172, TNR 221, TNR 252, TNR 320, TNR 358, CCC 111, CCC127, CCC 209, CCC 227, CCC 307 or CCC 323. Offer assistance if trained and willing to do so. Guide emergency responders to victim.

In the event of a tornado warning and on a second or higher floor in TNR, proceed to the TNR second floor or southern 1st floor hallway.

In the event of a tornado warning and on a third or higher floor in CCC, proceed to the second floor hallways or bathrooms, the first floor hallways away from glass or a first floor bathroom, or any of these rooms: CCC 101, 109, 111, 127, 205, 207, 209, 213, 227, 229, 231, or 233..

In the event of a fire alarm, evacuate the TNR or CCC building in a calm manner. Meet at the southwest corner of parking lot E. Notify instructor or emergency command personnel of any missing individuals.

Active Shooter – Run/Escape, Hide, Fight. If trapped hide, lock doors, turn off lights, spread out and remain quiet. Follow instructions of emergency responders.

See UW-Stevens Point Emergency Management at <https://www.uwsp.edu/emergency/Pages/default.aspx> for details on all emergency response at UW-Stevens Point."

Professionalism Statement

Students in the College of Natural Resources are pursuing courses of study that prepare them for careers as natural resources professionals. Thus, CNR students and faculty/staff are expected to exhibit conduct and attitudes appropriate to professionals. Conduct and attitudes appropriate for professionals include, but are not restricted to,

1. The UWSP Student Rights and Responsibilities are available via: www.uwsp.edu/centers/rights
2. Attitudes appropriate for resource professionals of the 21st Century:
 - a. Respect for others and for their ideas;
 - b. Appreciation for ethnic and gender diversity in the workplace;
 - c. Sensitivity to environmental quality;
 - d. Adherence to professional ethics, e.g. the Society of American Foresters Code of Ethics and other professional organization's codes of ethics.

Therefore, academic misconduct will not be tolerated.

Note the following as per the Univ. of Wisc.-Stevens Point Community Bill of Rights and Responsibilities:

UWSP 14.03 ACADEMIC MISCONDUCT SUBJECT TO DISCIPLINARY ACTION.

(1.) Academic misconduct is an act in which a student:

- (a) Seeks to claim credit for the work or efforts of another without authorization or citation;
 - (b) Uses unauthorized materials or fabricated data in any academic exercise;
 - (c) Forges or falsifies academic documents or records;
 - (d) Intentionally impedes or damages the academic work of others;
 - (e) Engages in conduct aimed at making false representation of a student's academic performance;
- or
- (f) Assists other students in any of these acts.
 - (g) Violates electronic communication policies or standards as agreed upon when logging on initially (See uwsp.edu/it/policy).

(2) Examples of academic misconduct include, but are not limited to: cheating on an examination; collaborating with others in work to be presented, contrary to the stated rules of the course; submitting a paper or assignment as one's own work when a part or all of the paper or assignment is the work of another; submitting a paper or assignment that contains ideas or research of others without appropriately identifying the sources of those ideas; stealing examinations or course materials; submitting, if contrary to the rules of a course, work previously presented in another course; tampering with the laboratory experiment or computer program of another student; knowingly and intentionally assisting another student in any of the above, including assistance in an arrangement whereby any work, classroom performance, examination or other activity is submitted or performed by a person other than the student under whose name the work is submitted or performed.

UWSP 14.04 DISCIPLINARY SANCTIONS.

(1) The following are the disciplinary sanctions that may be imposed for academic misconduct in accordance with the procedures of s. UWSP 14.05, 14.06 or 14.07:

- (a) An oral reprimand;
- (b) A written reprimand presented only to the student;
- (c) An assignment to repeat the work, to be graded on its merits;
- (d) A lower or failing grade on the particular assignment or test;
- (e) A lower grade in the course;
- (f) A failing grade in the course;
- (g) Removal of the student from the course in progress;
- (h) A written reprimand to be included in the student's disciplinary file;
- (i) Disciplinary probation; or
- (j) Suspension or expulsion from the university.

(2) One or more of the disciplinary sanctions listed in sub. (1) may be imposed for an incident of academic misconduct.

The College of Natural Resources at the University of Wisconsin – Stevens Point prepares students for success as professionals in many fields. As a professional, there are expectations of attainment of several personal characteristics. These include:

Integrity

Integrity refers to adherence to consistent moral and ethical principles. A person with integrity is honest and treats others fairly.

Collegiality

Collegiality is a cooperative relationship. By being collegial you are respecting our shared commitment to student education through cooperative interaction. This applies to all involved in the process: students, staff, faculty, administration and involved community members. You take collective responsibility for the work performed together, helping the group attain its goals.

Civility

Civility refers to politeness and courtesy in your interactions with others. Being civil requires that you consider the thoughts and conclusions of others and engage in thoughtful, constructive discussion to express your own thoughts and opinions.

Inclusivity

Inclusivity requires you to be aware that perspective and culture will control how communication is understood by others. While many values are shared, some are quite different. These differences in values should be both considered and respected.

Timeliness

Timeliness is the habit of performance of tasks and activities, planned in a way that allows you to meet deadlines. This increases workplace efficiency and demonstrates respect for others' time.

Respect for Property

Respect for property is the appreciation of the economic or personal value an item maintains. Maintaining this respect can both reduce costs (increase the operable life of supplies and equipment) as well as demonstrate respect for others rights.

Communication

Professional norms in communication require that you demonstrate the value of your colleagues, students, professors or others. The use of appropriate tone and vocabulary is expected across all forms of communication, whether that communication takes place face to face, in writing or electronically.

Commitment to Quality

Quality is the ability to meet or exceed expectations. By having a commitment to quality, we intend to provide a learning environment that is conducive to learning. Intrinsic to this commitment to quality is defining expectation (committed to in a syllabus through learning outcomes), implementation (with quality control in place) and assessment (where meeting of learning outcomes is determined).

Commitment to Learning

Learning is a lifelong process. By being committed to learning you are providing a model for all to follow. This model is not only professor to student but involves all combinations of people within our university and broader community

Adherence to this compact is required of the faculty and staff of the College of Natural Resources and of all students enrolled in College of Natural Resources courses.

Forestry Anti-harassment Statement

Introduction

In adopting this statement, the forestry discipline within the College of Natural Resources (CNR), at the University of Wisconsin-Stevens Point (UWSP) has expectations for professional behavior of its students, staff, faculty, and other associated parties. Anyone who has a reasonable belief that they, or another student, staff, faculty or guest, have been the victim of harassment, bullying, or discrimination, or any other violation in the statement herein, are encouraged and expected to report the conduct. See reporting options and guidelines at the end of this document.

The forestry discipline within the College of Natural Resources is committed to creating a safe, inclusive, and professional environment. The forestry discipline operates under the UWSP harassment, discrimination, and retaliation prevention guidelines, copied here:

"The University of Wisconsin-Stevens Point (UWSP) is committed to fostering an environment that is safe, respectful, and inclusive to all and to educate all employees on these important issues. In addition, we are obligated, under Regent policy and federal regulations, to ensure our employees are informed on the issues of unlawful discrimination, harassment, and sexual violence."

Statement

The forestry discipline, following the lead of the Society of American Foresters which accredits the B.S. forestry degree, believes we all have a responsibility in creating a safe, inclusive, professional environment in all forestry-related activities and events. All forms of discrimination, harassment, and bullying are prohibited. This applies to all participants in all settings (online and in-person) and locations (on- and off-campus) where forestry classes and associated activities are conducted, including student organization events and activities, committee meetings, workshops, conferences, and other work and social functions where employees, volunteers, sponsors, vendors, or guests are present.

Discrimination is prejudicial treatment of individuals or groups of people based on their race, color, creed, religion, age, sex, sexual orientation, gender identity or expression, national origin, ethnicity, ancestry, disability, pregnancy, marital or parental status, veteran status, or any other category protected by law.

Sexual harassment is unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature that creates an intimidating, hostile, or offensive environment. Sexual harassment constitutes discrimination and is illegal under federal, state, and local laws.

Bullying is unwelcome, aggressive behavior involving the use of influence, threat, intimidation, ridicule, hazing or coercion to dominate others in the professional environment. Bullying behavior may go beyond characteristics protected by applicable laws, including but not limited to, political views, dress, or other outward physical appearances.

Other types of harassment include any verbal or physical conduct directed at individuals or groups of people because of their race, ethnicity, color, national origin, sex, sexual orientation, gender identity, age, religion, disability, veteran status, or any other characteristic protected by applicable laws, that creates an intimidating, hostile, or offensive environment.

The following list, while not exhaustive, includes examples of unacceptable behavior: slurs, jokes, threats, or derogatory comments relating to the characteristics noted above. Examples of

inappropriate physical harassment that violate this statement include, but are not limited to: assault, unwanted touching, or impeding or blocking movement. In addition, no individual may be denied admission to, or participation in or the benefits of, any UWSP-associated events. Similarly, the display or circulation of derogatory or demeaning posters, cards, cartoons, emails, texts, videos, and graffiti which relate to characteristics noted above violate this statement.

Reporting

Students, staff, faculty, or guests associated with Forestry-related programming who experience or witness incidents of harassment are strongly encouraged to report the incident. The Forestry discipline strongly urges the prompt reporting of complaints or concerns so that rapid and constructive action can be taken.

Reporting can be done online or in person, to a faculty or staff member, and/or the UWSP Dean of Students. Anonymous reporting is available.

The UWSP Title IX Website is the home for all information related to harassment and discrimination, including reporting options, student and employee resources, and information about what happens after a report is submitted:

<https://www.uwsp.edu/titleix/Pages/default.aspx>

Preamble

Service to society is the cornerstone of any profession. The profession of forestry serves society by fostering stewardship of the world's forests. Because forests provide valuable resources and perform critical ecological functions, they are vital to the wellbeing of both society and the biosphere.

Members of SAF have a deep and enduring love for the land, and are inspired by the profession's historic traditions, such as Gifford Pinchot's utilitarianism and Aldo Leopold's ecological conscience. In their various roles as practitioners, teachers, researchers, advisers, and administrators, foresters seek to sustain and protect a variety of forest uses and attributes, such as aesthetic values, air and water quality, biodiversity, recreation, timber production, and wildlife habitat.

The purpose of this Code of Ethics is to protect and serve society by inspiring, guiding, and governing members in the conduct of their professional lives. Compliance with the code demonstrates members' respect for the land and their commitment to the long-term management of ecosystems, and ensures just and honorable professional and human relationships, mutual confidence and respect, and competent service to society.

On joining the SAF, members assume a special responsibility to the profession and to society by promising to uphold and abide by the following:

Principles and Pledges

- 1. Foresters have a responsibility to manage land for both current and future generations. We pledge to practice and advocate management that will maintain the long-term capacity of the land to provide the variety of materials, uses, and values desired by landowners and society.**
- 2. Society must respect forest landowners' rights and correspondingly, landowners have a land stewardship responsibility to society. We pledge to practice and advocate forest management in accordance with landowner objectives and professional standards, and to advise landowners of the consequences of deviating from such standards.**
- 3. Sound science is the foundation of the forestry profession. We pledge to strive for continuous improvement of our methods and our personal knowledge and skills; to perform only those services for which we are qualified; and in the biological, physical, and social sciences to use the most appropriate data, methods, and technology.**
- 4. Public policy related to forests must be based on both scientific principles and societal values. We pledge to use our knowledge and skills to help formulate sound forest policies and laws; to challenge and correct untrue statements about forestry; and to foster dialogue among foresters, other professionals, landowners, and the public regarding forest policies.**
- 5. Honest and open communication, coupled with respect for information given in confidence, is essential to good service. We pledge to always present, to the best of our ability, accurate and complete information; to indicate on whose behalf any public statements are made; to fully disclose and resolve any existing or potential conflicts of interest; and to keep proprietary information confidential unless the appropriate person authorizes its disclosure.**
- 6. Professional and civic behavior must be based on honesty, fairness, good will, and respect for the law. We pledge to conduct ourselves in a civil and dignified manner; to respect the needs, contributions, and viewpoints of others; and to give due credit to others for their methods, ideas, or assistance.**

Important information about potential online course materials and potential online course endeavors

Potential Instructor Recording and sharing class lectures

If a lecture recording only includes the instructor, the recording is not a student record and not considered protected by FERPA. If a recording includes student interactions (questions, presentations, etc.) and those students are identifiable, the recording would be a protected educational record. The recording could only be made available to the students in that specific class and/or to university officials with legitimate educational interest in that information – a genuine need for access to perform their duties. If the instructor wishes to further share the recording outside of the class, either identifiable students would have to provide written consent to release their participation or portions of the recording would have to be changed or omitted to avoid identifying students. But again, if no students are identifiable in any way (seen, heard or named), the recording would not be FERPA protected. Additionally, recordings that include student interactions are appropriate for posting within Canvas.

Student Recording and Sharing Class Lectures

Sometimes students record lectures or copy lecture materials (including potential instructor's recordings) and post them outside of class on internet sites or provide them to note sharing companies. These acts can violate intellectual property rights held by the instructor and the university. UW System Board of Regent policy authorizes instructors to limit or restrict students from copying, recording or using instructional materials or lectures unless necessary to reasonably accommodate a student's disability. [[Regent Policy Document 4-1](#)] If an instructor wishes to impose restrictions, the instructor should inform students of the limitations and the potential consequences of being subject to charges of student misconduct. Notification can be made through a syllabus, a lecture, or by other means to ensure awareness

*Given the above please note that **Lecture/Lab materials and recordings for FOR 321 are protected intellectual property at UW-Stevens Point. Students in this course may use the materials and recordings for their personal use related to participation in this class. Students may also take notes solely for their personal use. If a lecture/lab is not already recorded, you are not authorized to record lectures/labs without instructor permission unless you are considered by the university to be a qualified student with a disability requiring accommodation. [Regent Policy Document 4-1] Students may not copy or share lecture materials and recordings outside of class, including posting on internet sites or selling to commercial entities. Students are also prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor's express written permission. Unauthorized use of these copyrighted lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct.***

Lecture Outline

Week of	Topic(s)	Readings	Assigned Work
1/23	Introduction, Descriptive Statistics	Ch. 1; Ch. 3	
1/30	Descriptive Statistics, Graphical Description	Ch. 3; Ch. 2	none
2/6	Introduction to Probability, Counting Techniques	Ch. 4	Problem Set or Quiz
2/13	Discrete Distributions	Ch. 5	none
2/20	Continuous Distributions; One Sample Tests	Ch. 6; Ch. 8	none
2/27	Test 1, One Sample Tests of Means and Variation	Ch. 6; Ch. 8	none
3/6	One and Two Sample Tests of Means and Variation	Ch. 8; Ch. 9	Problem Set or Quiz
3/13	Two Sample Tests of Means and Variation	Ch. 8; Ch. 9	none
3/20	Spring Break		
3/27	Testing Proportions; Confidence Intervals;	Ch. 8; Ch. 9; Ch. 7	Problem Set or Quiz
4/3	Test 2; Confidence Intervals; Correlation	Ch. 9; Ch. 10	none
4/10	Regression Analysis	Ch. 10	none
4/17	Regression Analysis	Ch. 10	Problem Set or Quiz
4/24	Analysis of Variance	Ch. 12	none
5/1	Analysis of Variance; Test 3	Ch. 12	none
5/8	Goodness of Fit/Contingency Table Analysis/Class Wrapup	Ch. 11	none
5/15	Comprehensive Final: Thurs 5/18 at 2:45pm		

Laboratory Outline

Lab Day	Topic(s)/Applications	Assigned Work
Week of 1/23	Calculator/Calculation/Computing Basics	none
Week of 1/30	Introduction to Excel® Part I	none
Week of 2/6	Introduction to Excel® Part II	Lab Assignment
Week of 2/13	Probability Lab	none
Week of 2/20	Discrete Distributions; Test 1 Review	Lab Assignment
Week of 2/27	Continuous Distributions	none
Week of 3/6	One Sample Tests	none
Week of 3/13	Two Sample Tests	Lab Assignment
Week of 3/20	Spring Break	
Week of 3/27	To be determined; Test 2	none
Week of 4/3	Sampling part I (read Ch 14)	none
Week of 4/10	Sampling part II	Lab Assignment
Week of 4/17	Regression part I	none
Week of 4/24	Regression Part II/Test 3 review	Lab Assignment
Week of 5/1	Analysis of Variance	Lab Assignment
Week of 5/8	Analysis of Variance/Review for Final	none

Note the above schedules are a guide. The instructor reserves the right to make minor changes to the schedules based on assessment of class progress during the semester and needs identified therein.