BIOL 305: Biostatistics

Section 2, Fall 2024: 3 credits
Dept. of Biology, College of Arts and Sciences, University of Nebraska at Kearney

Classroom:	BHS NUM	**Time:**	DAYS OF WK.: 13:25–14:15
Instructor:	Mr. John Ross	**Email:**	anonymous@unk.edu
Office hours:	DAYS OF WK.: 08:00–09:00	**Office:**	BHS ???

Last updated: 9th January 2025

Lecture meeting times and location: DAYS OF WEEK: 13:25–14:15 (1:25 PM–2:15 PM) in BHS NUM (Full Building Name).

Instructor contact information:
Mr. John Ross, Position Title, located in BHS ???.
Office hours are on DAYS OF WK. from 08:00–09:00.
Contact: (555)-555-5555, anonymous@unk.edu, and through Canvas.

Course website: Course information is available via Canvas. Please check this site regularly. Mobile apps for Canvas are available for iOS and Android.

Course description: Type your description here.

Prerequisites: Prereqs here.

Instructional method: Instructional method and information here.

Student learning outcomes: By the end of this course, students should be able to:

1) Do the things from this bulleted list.
2) Like this second item.

Course Requirements: Course requirements.

Mr. Ross's attendance policy: Your attendance policy.

Missed assignments, quizzes, exams, and make-up policy: Your missing assignmnet policy.

Required materials: Required materials here, like the example books (see figures 1 and 2).

Technology: Tech requirements.

Technical support:
LoperTECH Service Desk: Phone: 308-865-8363; Email: support@nebraska.edu

If you are having problems or technical issues with Canvas, please contact ITS. Note that Canvas is most compatible with Firefox or Chrome. If you are using Edge or Safari and having issues, please try one of the aforementioned browsers before reaching out to tech support.

Grading policy: Policy and grade breakdown here. See below for a tabular example.
Assigning letter grades at the end of the semester: Grades in this class will be assigned according to the standard UNK scoring system described below. Only by attaining these percentages can you be assured of receiving a desired grade.

Figure 1: *Experimental Design for the Life Sciences, 4th ed.* ISBN: 978-0-19-871735-5

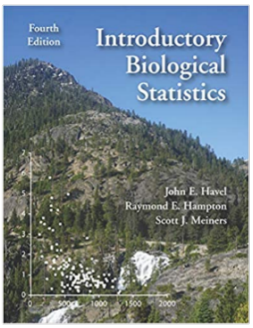

Figure 2: *Introductory Biological Statistics, 4th ed.* ISBN: 978-1478638186.

A+: 97–100%	A: 94–96%	A-: 90–93%
B+: 87–89%	B: 84–86%	B-: 80–83%
C+: 77–79%	C: 74–76%	C-: 70–73%
D+: 67–69%	D: 64–66%	D-: 60–63%
	F: < 60%	

Please note: Grades will be rounded to the nearest whole percent. Thus, if your final grade is within 0.5% of the next highest grade, your grade will be rounded up (e.g., an 89.50% will be considered an "A-"). This is the definitive cutoff for rounding grades. There will be NO exceptions to this policy.

Mr. Ross's policy on plagiarism and academic dishonesty: Plagiarism policy here.

The learning commons: Learning Commons services are available in person and on Zoom for all online and on-campus UNK students. To request an appointment for subject tutoring, writing tutoring, success coaching, or foreign language support, please submit an Appointment Request Form on the Learning Commons website, call the Learning Commons Welcome Desk at 308-865-8905, or stop by the Welcome Desk in person on the second floor of the Calvin T. Ryan Library. To submit a draft of your writing for a tutor to review, go to the Writing Center webpage).

Please see university specific policies on the following page.

University policies

Example: This will insert a separate section in which you can put university policies. This allows the same insert to be used in multiple syllabi and to shared among faculty.

Please see calendar on following pages.

Tentative course calendar

Below is an example schedule from a course at UNK. Note that the dates will automatically update for the semester after the first Monday is noted in the header of the LaTex document. Please note that this schedule may be subject to change. Assigned readings are noted for each topic. (Key: L = Lecture; R&C = Ruxton and Colegrave 2016 chapter number; HHM = Havel, Hampton and Meiners 2019 chapter number); HW# = Homework, Chapter # in HHM when applicable.

Week	Date	Topic
1	26th August	L1: Course introduction & Scientific Method (R&C: 1)
	28th August	L2.1: Elements of good study design (R&C: 2)
	30th August	L2.2: Elements of good study design (R&C: 2)
2	2nd September	**Labor Day / Cherokee National Holiday (No class)**
	4th September	L3.1: Introduction to study design
	6th September	L3.2: Measurements
3	9th September	L4.1: Elements of good study design (R&C: 3–5)
	11th September	L4.2: Elements of good study design (R&C: 3–5)
	13th September	L5.1: Practicing the art of study design (HW: Exam 1 practice)
4	16th September	Exam 1 review; **Exam 1 assigned**
	18th September	Exam 1 Q&A; **Exam 1 due @ 6 PM**
	20th September	L6.1: Data measurement & management
5	23rd September	L6.2: Data measurement & management
	25th September	**Introduction to programming (COMPUTER REQUIRED)**
	27th September	L7.1: Central tendancy & dispersion
6	30th September	L7.2: Central tendancy & dispersion
	2nd October	Review and homework day
	4th October	L9.1: Normality & hypothesis testing

Week	Date	Topic
7	7th October	L9.2: Normality & hypothesis testing (z score practice)
	9th October	L9.3: Normality and hypothesis testing
	11th October	L9.4: Normality & hypothesis testing, Exam 2 review
8	14th October	Exam review, **Exam 2 assigned**
	16th October	**Exam 2 Q&A, Exam 2 due @ 6 PM**
	18th October	L10.1: Binomial distribution
9	21st October	**No class (Fall Break)**
	23rd October	**No class (Fall Break)**
	25th October	L10.2: Binomial distributions
10	28th October	L11.2: Testing single populations
	30th October	Homework & review day
	1st November	L12.1: Two population means testing
11	4th November	L12.2: Two population means testing
	6th November	L12.3: Two population means testing
	8th November	L12.4: Two population means testing
12	11th November	Homework & review day
	13th November	L13.1: Multi-pop means testing
	15th November	L13.2: Multi-pop means testing
13	18th November	L13.3 Multi pop means testing
	20th November	Homework & review day
	22nd November	L14: Two-way ANOVA
14	25th November	Homework & review day

Week	Date	Topic
	27th November	**No class (Thanksgiving)**
	29th November	**No class (Thanksgiving)**
15	2nd December	L15.1: Correlation and regression
	4th December	L15.2 Correlation and Regression
	6th December	15.3: Correlation and Regression
16	9th December	Homework & review
	11th December	Pick the test! Final exam review assigned
	13th December	Final exam study session
17	16th December	**No class; Final exam assigned**
	18th December	**Final exam class period, Final exam due @ 6 PM**
	20th December	**No class**

Note: This schedule is subject to change pending events during the semester.