

Biology 1408 Syllabus

Instructor: Barbara Scown

Home Phone: 432-447-3217

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Attendance: Your attendance in a science lab course is mandatory. If an absence occurs, contact me immediately.

Grades: Homework assignments and lecture exams along with lab practicals will make up 75% of the grade while the final exam is 25% of the grade.

TENTATIVE LECTURE SCHEDULE

August

- Tn 23 Biological Themes; Characteristics of Life
- Th 25 Biological Processes; Scientific Method
- Tn 30 Eukaryotic and Prokaryotic Cells (structure and function)

September

- Th 1 Cell theory, Levels of Organization
- Tn 6 Exam!
- Th 8 Chemistry—Composition of Matter
- Tn 13 Chemistry of Cells
- Th 15 Chemistry of Cells
- Tn 20 Cell Membrane and it's Environment
- Th 22 EXAM 2
- Tn 27 Biochemistry (Photosynthesis and Respiration)
- Th 29 Genetic Code —DNA and Replication

October

- Tu 4 Chromosome Structure; Haploid and Diploid Cells
- Th 6 Cell Cycle and Mitosis
- Tn 11 Mitosis
- Th 13 Mitosis
- Tu 18 Meiosis—Sex Cell Formation
- Th 20 Meiosis
- Tn 25 Exam 3
- Th 27 RNA and Protein Synthesis

November

Tn 1 Transcription And Translation
Th 3 Transcription and Translation
Tn 8 Gene Function
Th 10 Gene Technology
Tn 15 Mendelian Genetics—Genotype and Phenotype
Th 17 Mendelian Genetics---Genetic Crosses
Tn 29 Evolution and the Origin of life

December

Th 1 Evolution and Life

Final Exams TBA

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JANUARY

Tu 15 Ch. 32 Evolution Of Homo sapiens -Neanderthals

Th 17 Ch. 21 Viruses

Ch. 21 Bacteria & Archaea

Tu 22 Ch. 21 Bacteria & Archaea cont. (Lab)

Th 24 Ch. 22 Kingdom Protista (Protists)

Tu 29 Ch. 22 Protists- Algae & Protozoa Lab

Th 31 Ch. 23 Fungi

FEBURARY

Tu 5 Test!

Tb 7 Ch. 24 Evolution & Diversity of Plants

Ch. 24 Structure and Organization of Plants (nonvascular)

Tu 12 Ch. 25 Structure & Organization of Plants (vascular)

Ch. 25 Root Structure & Function

Th 14 Ch. 25 Stem Structure & Function

Ch. 25 Leaf Structure & Function

Tu 19 Ch. 28 Plant Reproduction

Th 2! Test2

Tu 26 Ch. 29 Intro to Invertebraks

Th 28 Ch. 29 Phylum Porifera (Sponges

MARCH

Tu 4 Ch. 29 Phylum Cmdaria (Coral & Jellyfish)

Th 6 Ch. 29 Phylum Platyhelminthes (Flatworms)

Tn 11 Phylum Nematoda (Roundworms) Roundworms Dissection

Th 13 Ch 30 Protostomes—Phylum Mollusca (Clam Dissection)

Tn 18 Spring Break

Th 20 Spring Break

Tn 25 Ch. 30 Phylum Annelida — Earthworm Dissection

Ch. 30 Phylum Arthropoda

Th 27 Test 3

APRIL

Tn 1 Ch. 30 Arthropoda (Crayfish Dissection)

Th 3 Ch. 30 Phylum Arthropoda (insects) Grasshopper dissection

Tn 8 Phylum Deuterostomes: Echinodermata — Starfish Dissection

Th 10 Phylum Chordata: Lower Chordates

Tn 15 Phylum Chordata: Vertebrates

Th 17 Vertebrate Systems — Frog Dissection — Part I

Tn 22 Vertebrate Systems — Frog Dissection — Part II

Th 24 Vertebrate Systems — Pig Dissection — Part I

Th 29

MAY

Tu 1 Vertebrate Systems — Pig Dissection — Part II

Th 6 Test4

Tn 8 Final Exam