

1989-90  
Hythe

## BIOLOGY 130

### COURSE OUTLINE

INSTRUCTOR: SANDRA HUTCHESON

There are 16 lessons to be submitted for Biology 130. The lessons will be turned in for marking.

WARNING! This course is alot of work. To complete you must keep up so that your completed lessons are matching the seminars that are completed.

### LABS

The following labs will be taken out of the GPRC LAB MANUAL.

LABS WHICH ARE PART OF THE ACS LESSONS WILL NOT BE DONE.

Lesson 2:	1. Lab 1	Diffusion and Osmosis
Lesson 9:	2. Lab 4	Circulation (Heart Dissection)
Lesson 10:	3. Lab 29	Blood Antigens
Lesson 11:	4. Lab 9	Central Nervous System (Brain Surgery)
Lesson 14:	5 Lab 37	Kidney Structure

\* THE ABOVE LABS WILL BE DONE AT THE HYTHE CAMPUS. \*

Lesson 4:	6. Lab 2	Carbohydrates, Lipids and Proteins
Lesson 12:	7. Lab 10	Senses and Reflexes

\* THE ABOVE LABS WILL BE DONE AT THE COLLEGE ON A DAY THAT WILL BE SET DURING THE TERM.\*

### SEMINARS

Seminars will be held once a week. Make sure that you have read the material. Seminars will be conducted as a lecture or discussion. You are required to make your own notes from the information taken in the session.

### LESSONS

Due to the amount of material that will be covered in this course to gain a fair chance of passing and completion one lesson a week must be completed.

Lessons will also be covered in a different order. This order is as follows

#### A. DIGESTIVE SYSTEM

- Lesson 1            The Cell and Its Parts
- Lesson 2:          Physical Processes in Cells
- Lesson 3:          The Human Digestive System
- Lesson 5:          Digestion

#### DIGESTIVE UNIT EXAM

#### B. RESPIRATORY SYSTEM

- Lesson 8:          The Respiratory System
- Lesson 4:          Nutrition
- Lesson 6:          Cellular Respiration

#### RESPIRATION UNIT EXAM

#### C. CIRCULATORY SYSTEM

- Lesson 9:          The Heart and Circulation of the Blood
- Lesson 10:        Blood Structure and Function
- Lesson 7:          Human Skeleton and Muscles

#### CIRCULATORY UNIT EXAM

#### D. NERVOUS SYSTEM

- Lesson 11:        Central Nervous System
- Lesson 12:        Sensory Receptors

#### NERVOUS SYSTEM UNIT EXAM

#### E. THE EXCRETORY SYSTEM

#### EXCRETION UNIT EXAM

#### D. HORMONAL SYSTEM

Lesson 13:	The Endocrine System
Lesson 15:	The Reproductive System
Lesson 16:	Pregnancy and Childbirth

#### HORMONE UNIT EXAM

#### MARKING SCHEME:

Lessons	10%
Labs	20%
Unit Exams	20%
Final Exam	<u>50%</u>
	100%

# HYTHE CAMPUS

## BIOLOGY 130 AUDIO/VISUAL MATERIALS

### Lesson 1: The Cell and its Parts

Cell: A Functioning Structure Part 1	MP	L - 9
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Cell: A functioning Structure Part 2	MP	L - 9
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### Lesson 2: Physical Processes in Cells

Homeostasis: Maintaining the Stability of Life	SS	QH 546 H56
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Biology Part 1: Diffusion	VOC SS	QH 307.2 B564
Membranes	SS	QH 601 H45
Osmosis: Dialysis ( 1970)	MPL	MPL- QH 615.075
Enzymes	SS	QP 601 E524

### Lesson 3: The Human Digestive System

Biology I, Pt.3: The Alimentary Canal	FSS	QH 307.2 8T64
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### Lesson 4. Nutrition

Chemistry of Carbohydrates and Lipids	SS	QP 321 C54
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### Lesson 5: Digestion

Digestive System in Animals	MP	K - 12
Digestion	VT	QP 145 D5

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Lesson 6: Cellular Respiration

ATP - Packet of Energy	FS	QP 625 A3A8
Chemistry of Life	SS	QH 253 C54
Metabolism: Structure and Regulation	SS	634.5 M47
Respiration	SS	QH 631 R47
Electron Transfer System	TR	QH 633 E4
Krebs Cycle	TR	QH 633 K7

Lesson 7: Human Skeleton and Muscles

Biology II: Pt. 3: Muscles and Bones	FSS	QH 307.2 B565
Muscle Contraction	MPL	QP 321 M8
Role of ATP in Muscle Contraction	MPL	QP 321 R6
X-Ray Motion Pictures:	MPL	QM 131 X7 #1-5
Movement in the Human Skeleton	MPL	QH 101 M68

Lesson 8: The Respiratory System

Biology II. Pt2: Respiration	FSS	QH 307.2 B565
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Lesson 9: Heart Circulation and Blood

Biology II. Pt.1: Circulation	FSS	QH 307.2 B565
Circulation of the Blood: Pt.1 The Heart	MPL	QP 111 C5
Circulation of the Blood: Pt.2:		
Arteries and Veins	MPL	QP 111 C5
Circulation: Closed Transport System	MPL	QL 835 C49
Transport Systems in Animals	MP	K - 15

Lesson 10: Blood Structure and Function

Red River ( Body Human)	VT	No.2
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Lesson 11: Central Nervous System

Biology II. Pt 4: The Nervous System	FSS	QH 307.2 R565
Exploring the Human Nervous System	MP	M - 20
The Vital Connection ( Body Human)	VT	: QP 39 B62 No. 3
The Long Childhood ( Ascent of Man)	VT	Q 175 B7918 No.13

Lesson 12: Sensory Receptors

Nerve Impulse	MPL	QP 341 N4
Physiology of the Eye	MPL	QP 476 D46
Magic Senses ( Body Human) Optical Illusions	VT	VT No. 5

Lesson 13: The Endocrine System

Action of Pituitary Hormones (LF and FSH)	SS	QP 251 A3
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Lesson 15: The Reproductive System

Reproductive Hormones in Man	FSS	QP 251 R5
Sexes ( Body Human)	VT	No. 4

Lesson 16: Pregnancy and Childbirth

Fertilization and Early Development	MPL	QP 251 H8 #3
Embryo and Fetus	MPL	QP 251 H8 #4
Human Birth	MPL	QP 251 H8 #5
Miracle Months (Body Human)	VT	No. 1

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