

Advanced Biology: The Human Body

Lesson 1	Start Time	Length	End Time
Introduction	0:00:00	0:04:38	0:04:38
Organizational Levels Of The Human Body	0:04:38	0:08:44	0:13:22
Homeostasis	0:13:22	0:06:15	0:19:37
Control Of Homeostasis: Feedback	0:19:37	0:07:36	0:27:13
A Review Of Cell Structure And Function	0:27:13	0:12:46	0:39:59
A Review Of Protein Synthesis	0:39:59	0:05:32	0:45:31
A Review Of Cellular Mitosis	0:45:31	0:04:18	0:49:49
The Plasma Membrane	0:49:49	0:06:43	0:56:32
Functions Of The Plasma Membrane	0:56:32	0:11:54	1:08:26
Membrane Transport Processes	1:08:26	0:12:57	1:21:23

Lesson 2	Start Time	Length	End Time
Introduction	0:00:00	0:02:03	0:02:03
Epithelial Tissue	0:02:03	0:11:30	0:13:33
Stratified Epithelial Tissue	0:13:33	0:08:40	0:22:13
Glandular Epithelium	0:22:13	0:06:51	0:29:04
Connective Tissue	0:29:04	0:02:50	0:31:54
Connective Tissue Proper	0:31:54	0:07:41	0:39:35
Cartilage	0:39:35	0:05:14	0:44:49
Bone And Blood	0:44:49	0:01:04	0:45:53
Membranes	0:45:53	0:06:19	0:52:12
Tissue Repair	0:52:12	0:07:16	0:59:28

Lesson 3	Start Time	Length	End Time
Introduction	0:00:00	0:02:43	0:02:43
The Basic Structure Of Skin	0:02:43	0:12:28	0:15:11
A Closer Look At The Epidermis	0:15:11	0:06:56	0:22:07
Hair And Nails	0:22:07	0:10:48	0:32:55
Skin Glands	0:32:55	0:05:07	0:38:02
The Skeletal System	0:38:02	0:04:11	0:42:13
Gross Anatomy Of Bone	0:42:13	0:05:01	0:47:14
An Overview Of The Skeletal System	0:47:14	0:03:15	0:50:29
Details Of The Appendicular Skeleton	0:50:29	0:02:21	0:52:50
Details Of The Appendicular Skeleton	0:52:50	0:02:29	0:55:19
Details Of The Axial Skeleton	0:55:19	0:06:30	1:01:49
Details Of The Axial Skeleton	1:01:49	0:06:23	1:08:12
Details Of The Axial Skeleton	1:08:12	0:03:04	1:11:16

Lesson 4	Start Time	Length	End Time
Introduction	0:00:00	0:09:33	0:09:33
Cancellous And Compact Bone	0:09:33	0:03:36	0:13:09
Bone Growth And Bone Remodeling	0:13:09	0:14:52	0:28:01
Bone Homeostasis	0:28:01	0:12:11	0:40:12
Nutrition For Bone Health	0:40:12	0:01:10	0:41:22
The Three Major Types Of Joints	0:41:22	0:12:47	0:54:09

Motion And Terms Of Movement 0:54:09 0:07:13 1:01:22

Lesson 5	Start Time	Length	End Time
Introduction	0:00:00	0:06:02	0:06:02
Skeletal Muscle Structure	0:06:02	0:05:07	0:11:09
How A Muscle Fiber Contracts	0:11:09	0:14:34	0:25:43
The Neuromuscular Junction	0:25:43	0:14:54	0:40:37
How A Muscle Fiber Relaxes	0:40:37	0:04:23	0:45:00
Motor Units	0:45:00	0:03:53	0:48:53
Multiple Motor Unit Summation	0:48:53	0:07:10	0:56:03
Muscle Tone	0:56:03	0:01:42	0:57:45
Energy In Skeletal Muscle Fibers	0:57:45	0:09:13	1:06:58
Warm-Up And Cool-Down	1:06:58	0:02:18	1:09:16
Summing Up	1:09:16	0:00:32	1:09:48

Lesson 6	Start Time	Length	End Time
Introduction	0:00:00	0:09:13	0:09:13
An Overview Of The Skeletal System	0:09:13	0:05:24	0:14:37
Major Muscles Of The Head And Neck	0:14:37	0:04:17	0:18:54
Major Muscles Of The Anterior Trunk	0:18:54	0:04:03	0:22:57
The Major Muscles Of The Shoulder	0:22:57	0:02:45	0:25:42
Major Muscles Of The Forearm	0:25:42	0:04:51	0:30:33
Muscles Of The Hand	0:30:33	0:02:10	0:32:43
Major Muscles Of The Thigh	0:32:43	0:04:15	0:36:58
Major Muscles Of The Leg	0:36:58	0:03:13	0:40:11
The Muscles Of The Foot	0:40:11	0:00:15	0:40:26
Summing Up	0:40:26	0:01:17	0:41:43

Lesson 7	Start Time	Length	End Time
Introduction	0:00:00	0:08:32	0:08:32
The Nervous System At The Cellular Level	0:08:32	0:08:02	0:16:34
Neuroglia	0:16:34	0:04:51	0:21:25
Nerve Structure	0:21:25	0:08:00	0:29:25
Action Potentials I: The Resting Membrane Potential	0:29:25	0:09:39	0:39:04
Action Potentials II: Stimulus Coupling	0:39:04	0:13:11	0:52:15
Action Potentials III: Stimulus Coupling	0:52:15	0:15:03	1:07:18
Synaptic Transmission	1:07:18	0:17:49	1:25:07
Neuron Arrangements	1:25:07	0:04:49	1:29:56

Lesson 8	Start Time	Length	End Time
Introduction	0:00:00	0:01:46	0:01:46
The Brain	0:01:46	0:06:32	0:08:18
Brain Anatomy	0:08:18	0:15:36	0:23:54
The Cerebrum In More Detail	0:23:54	0:17:27	0:41:21
Other Important Structures In The Brain	0:41:21	0:06:20	0:47:41
Protection Of The Brain	0:47:41	0:08:44	0:56:25
The Spinal Cord	0:56:25	0:06:20	1:02:45

The Reflex Arc	1:02:45	0:07:54	1:10:39
Ascending And Descending Pa	1:10:39	0:08:00	1:18:39

Lesson 9	Start Time	Length	End Time
Introduction	0:00:00	0:05:12	0:05:12
Divisions Of The Autonomic N	0:05:12	0:15:33	0:20:45
Control Of The Autonomic Ne	0:20:45	0:04:25	0:25:10
The Afferent Division Of The F	0:25:10	0:16:27	0:41:37
The General Senses	0:41:37	0:05:27	0:47:04
The Sense of Smell	0:47:04	0:07:33	0:54:37
The Sense Of Taste	0:54:37	0:05:00	0:59:37
The Sense Of Balance	0:59:37	0:10:28	1:10:05
The Sense Of Hearing	1:10:05	0:07:05	1:17:10
The Sense Of Vision: Eye Anat	1:17:10	0:15:17	1:32:27
The Sense Of Vision: Physiolo	1:32:27	0:16:00	1:48:27

Lesson 10	Start Time	Length	End Time
Introduction	0:00:00	0:05:47	0:05:47
The Endocrine System As A W	0:05:47	0:04:44	0:10:31
Endocrine Glands And Hormo	0:10:31	0:18:21	0:28:52
Hormone Chemistry	0:28:52	0:03:32	0:32:24
Hormone Secretion Control	0:32:24	0:13:32	0:45:56
Patterns Of Hormone Secretic	0:45:56	0:02:32	0:48:28
Hormone Receptors In The Bc	0:48:28	0:06:56	0:55:24
Prostaglandins	0:55:24	0:03:27	0:58:51

Lesson 11	Start Time	Length	End Time
Introduction	0:00:00	0:05:10	0:05:10
The Composition Of Blood	0:05:10	0:07:15	0:12:25
The Formed Elements In Bloo	0:12:25	0:16:38	0:29:03
Blood As A Connective Tissue	0:29:03	0:20:18	0:49:21
Blood Types	0:49:21	0:13:54	1:03:15
An Overview Of Blood Circula	1:03:15	0:04:58	1:08:13
Heart Anatomy	1:08:13	0:05:17	1:13:30
The Flow of Blood Through th	1:13:30	0:02:23	1:15:53
Cardiac Muscle And The Cardi	1:15:53	0:06:28	1:22:21
Blood Vessels And The Entire	1:22:21	0:07:18	1:29:39

Lesson 12	Start Time	Length	End Time
Introduction	0:00:00	0:02:03	0:02:03
Lymph And Lymph Vessels	0:02:03	0:04:12	0:06:15
Functions Of The Lymphatic S	0:06:15	0:05:54	0:12:09
Mucosa - Associated Lymphoi	0:12:09	0:03:02	0:15:11
Lymph Nodes	0:15:11	0:04:07	0:19:18
The Spleen And The Thymus C	0:19:18	0:04:55	0:24:13
Immunity	0:24:13	0:06:31	0:30:44
The First Line Of Innate (Nons	0:30:44	0:06:26	0:37:10

The Second Line Of Innate De	0:37:10	0:08:59	0:46:09
Acquired Immunity, Part 1: Hi	0:46:09	0:10:42	0:56:51
Acquired Immunity, Part 2: Ce	0:56:51	0:02:47	0:59:38
Types Of Acquired Immunity /	0:59:38	0:04:50	1:04:28

Lesson 13	Start Time	Length	End Time
Introduction	0:00:00	0:03:55	0:03:55
Overview Of The Digestive Sy:	0:03:55	0:08:10	0:12:05
The Mouth, Pharynx, And Eso	0:12:05	0:13:51	0:25:56
The Stomach	0:25:56	0:13:59	0:39:55
The Small Intestine	0:39:55	0:13:55	0:53:50
The Large Intestine	0:53:50	0:07:54	1:01:44
Accessory Organs: The Liver, I	1:01:44	0:13:57	1:15:41
Nutrition	1:15:41	0:08:25	1:24:06
Micronutrients	1:24:06	0:06:33	1:30:39

Lesson 14	Start Time	Length	End Time
Introduction	0:00:00	0:01:13	0:01:13
Anatomy And Functions Of Th	0:01:13	0:09:35	0:10:48
Voice	0:10:48	0:07:40	0:18:28
The Muscles And Mechanics C	0:18:28	0:06:24	0:24:52
Factors That Aid Ventilation	0:24:52	0:14:12	0:39:04
External Respiration	0:39:04	0:14:33	0:53:37
Gas Exchange During External	0:53:37	0:10:54	1:04:31
Respiratory Control	1:04:31	0:10:09	1:14:40
Cellular Respiration	1:14:40	0:01:17	1:15:57
Stage 1 Of Cellular Respirator	1:15:57	0:06:02	1:21:59
Stage 2 Of Cellular Respirator	1:21:59	0:02:45	1:24:44
Stage 3 Of Cellular Respirator	1:24:44	0:03:30	1:28:14
Stage 4 Of Cellular Respirator	1:28:14	0:06:13	1:34:27
Review Of Cellular Respirator	1:34:27	0:06:10	1:40:37

Lesson 15	Start Time	Length	End Time
Introduction	0:00:00	0:02:05	0:02:05
Anatomy Of The Urinary Syste	0:02:05	0:10:13	0:12:18
Urine Formation: The Overall	0:12:18	0:06:54	0:19:12
Urine Formation, Step 1: Glon	0:19:12	0:10:02	0:29:14
Urine Formation, Step 2: Reak	0:29:14	0:09:11	0:38:25
Urine Formation, Step 3: Secr	0:38:25	0:02:00	0:40:25
Urine Formation, Step 4: Reak	0:40:25	0:13:33	0:53:58
Storage And Release Of Urine	0:53:58	0:02:29	0:56:27
Blood Pressure Control By The	0:56:27	0:04:02	1:00:29
Acid-Base Balance In The Bod	1:00:29	0:18:20	1:18:49

Lesson 16	Start Time	Length	End Time
Introduction	0:00:00	0:02:25	0:02:25
Anatomy Of The Male Reprod	0:02:25	0:13:04	0:15:29

Meiosis	0:15:29	0:03:45	0:19:14
Spermatogenesis: Developme	0:19:14	0:06:43	0:25:57
Hormonal Control Of Male Re	0:25:57	0:04:20	0:30:17
Anatomy Of The Female Repr	0:30:17	0:04:53	0:35:10
Oogenesis: Development Of T	0:35:10	0:07:15	0:42:25
The Menstrual Cycle	0:42:25	0:10:58	0:53:23
Fertilization, Development, Ai	0:53:23	0:13:12	1:06:35