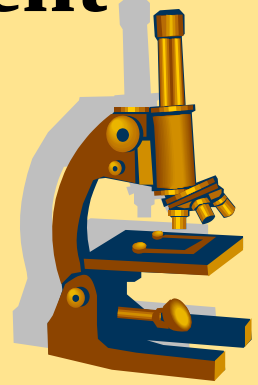


BIOL 1610
Department Wide
Pre/Post Test
Longitudinal Assessment
2010-2015



Step Ahead.



BIOL 1610 Pre-test and Post-test Topics

	Objective (Students should understand...)
1	The hierarchy of Biological Organization
2	Atomic Structure
3	Biological Macromolecules
4	Protein Structure
5	Cellular Organization
6	Organelle Function
7	Membrane Transport
8	Cellular Respiration
9	Photosynthesis
10	Mitotic Cell Division
11	Meiotic Cell Division
12	Mendelian Genetics
13	DNA Structure and Function
14	The Central Dogma of Biology
15	Population Genetics

Summary						
Question	Prequiz Assessment		Postquiz Assessment		% Improvement	% Relative Improvement
	Total Incorrect	% Incorrect	Total Incorrect	% Incorrect		
1	5283	63.4	1595	27.3	36.2	69.8
2	6074	72.9	2307	39.4	33.5	62.0
3	3035	36.4	945	16.2	20.3	68.9
4	6147	73.8	2413	41.3	32.5	60.7
5	6610	79.4	1986	34.0	45.4	70.0
6	6372	76.5	1884	32.2	44.3	70.4
7	5386	64.7	2129	36.4	28.3	60.5
8	6874	82.5	2457	42.0	40.5	64.3
9	5472	65.7	1693	29.0	36.8	69.1
10	4655	55.9	1032	17.6	38.2	77.8
11	6811	81.8	2406	41.1	40.6	64.7
12	5056	60.7	996	17.0	43.7	80.3
13	5323	63.9	1643	28.1	35.8	69.1
14	5752	69.1	1954	33.4	35.7	66.0
15	6236	74.9	2097	35.9	39.0	66.4
# Students		8328	100.0	5848	100.0	Relative Improvement: 70.22094
Average Score:		31.80	Average Score:		68.77	

This table indicates the improvement and relative improvement seen in these topic areas for students who took BIOL 1610 during a semester between Fall 2010 to Fall 2015. The data were averaged over those 11 semesters.

The following tables provide the raw data for each semester.

Fall Semester, 2010

"Pre-Quiz" Assessment

Question	Total Incorrect	Percent Incorrect
1	417	66.7
2	466	74.6
3	245	39.2
4	469	75.0
5	518	82.9
6	506	81.0
7	413	66.1
8	513	82.1
9	428	68.5
10	383	61.3
11	519	83.0
12	397	63.5
13	410	65.6
14	460	73.6
15	489	78.2

Average Number Correct: **4.4**
 Percent Correct: **29.2**
 N = 625 studen **625**

Spring Semester, 2011

"Pre-Quiz" Assessment

Question	Total Incorrect	Percent Incorrect
1	457	65.6
2	499	71.6
3	259	37.2
4	502	72.0
5	547	78.5
6	551	79.1
7	468	67.1
8	585	83.9
9	473	67.9
10	390	56.0
11	576	82.6
12	440	63.1
13	444	63.7
14	475	68.1
15	503	72.2

Average Number Correct: **4.7**
 Percent Correct: **31.4**
 N = 697 studen **697**

Fall Semester, 2011

"Pre-Quiz" Assessment

Question	Total Incorrect	Percent Incorrect
1	447	64.1
2	515	73.9
3	257	36.9
4	527	75.6
5	567	81.3
6	554	79.5
7	461	66.1
8	593	85.1
9	465	66.7
10	381	54.7
11	570	81.8
12	441	63.3
13	473	67.9
14	512	73.5
15	537	77.0

Average Number Correct: **4.5**
 Percent Correct: **30.2**
 N = 697 studen **697**

Spring Semester, 2012

"Pre-Quiz" Assessment

Question	Total Incorrect	Percent Incorrect
1	652	67.1
2	737	75.9
3	344	35.4
4	694	71.5
5	705	72.6
6	754	77.7
7	656	67.6
8	815	83.9
9	640	65.9
10	569	58.6
11	803	82.7
12	587	60.5
13	596	61.4
14	647	66.6
15	753	77.5

Average Number Correct: **4.8**
 Percent Correct: **31.7**
 N = 971 studen **971**

**"Post-Quiz" Assessment
(Last Week of the semester)**

Question	Total Incorrect	Percent Incorrect
1	74	20.4
2	133	36.7
3	56	15.5
4	140	38.7
5	100	27.6
6	88	24.3
7	137	37.8
8	149	41.2
9	79	21.8
10	51	14.1
11	149	41.2
12	55	15.2
13	96	26.5
14	95	26.2
15	121	33.4

Average Number Correct: **10.8**
 Percent Correct: **72.0**
 N = 362 studen **362**

**"Post-Quiz" Assessment
(Last Week of the semester)**

Question	Total Incorrect	Percent Incorrect
1	143	29.2
2	184	37.6
3	67	13.7
4	186	38.0
5	173	35.4
6	144	29.4
7	173	35.4
8	201	41.1
9	130	26.6
10	73	14.9
11	197	40.3
12	84	17.2
13	131	26.8
14	130	26.6
15	199	40.7

Average Number Correct: **10.5**
 Percent Correct: **69.8**
 N = 489 studen **489**

**"Post-Quiz" Assessment
(Last Week of the semester)**

Question	Total Incorrect	Percent Incorrect
1	147	27.4
2	228	42.5
3	78	14.5
4	227	42.3
5	205	38.2
6	195	36.3
7	204	38.0
8	240	44.7
9	215	40.0
10	92	17.1
11	244	45.4
12	104	19.4
13	179	33.3
14	184	34.3
15	223	41.5

Average Number Correct: **9.9**
 Percent Correct: **65.7**
 N = 537 studen **537**

**"Post-Quiz" Assessment
(Last Week of the semester)**

Question	Total Incorrect	Percent Incorrect
1	188	31.2
2	233	38.7
3	83	13.8
4	239	39.7
5	193	32.1
6	183	30.4
7	212	35.2
8	245	40.7
9	157	26.1
10	106	17.6
11	252	41.9
12	92	15.3
13	165	27.4
14	206	34.2
15	234	38.9

Average Number Correct: **10.4**
 Percent Correct: **69.1**
 N = 602 studen **602**

Fall Semester, 2012**"Pre-Quiz" Assessment**

Question	Total Incorrect	Percent Incorrect
1	465	62.6
2	535	72.0
3	256	34.5
4	560	75.4
5	594	79.9
6	567	76.3
7	489	65.8
8	605	81.4
9	485	65.3
10	404	54.4
11	598	80.5
12	460	61.9
13	470	63.3
14	533	71.7
15	561	75.5

Average Number Correct: **4.8**
 Percent Correct: **32.0**
 N = 743 studen **743**

Spring Semester, 2013**"Pre-Quiz" Assessment**

Question	Total Incorrect	Percent Incorrect
1	500	64.4
2	585	75.4
3	290	37.4
4	570	73.5
5	598	77.1
6	591	76.2
7	493	63.5
8	658	84.8
9	496	63.9
10	445	57.3
11	626	80.7
12	453	58.4
13	480	61.9
14	513	66.1
15	606	78.1

Average Number Correct: **4.8**
 Percent Correct: **32.1**
 N = 776 studen **776**

Fall Semester, 2013**"Pre-Quiz" Assessment**

Question	Total Incorrect	Percent Incorrect
1	487	58.0
2	592	70.6
3	279	33.3
4	603	71.9
5	640	76.3
6	596	71.0
7	498	59.4
8	650	77.5
9	522	62.2
10	426	50.8
11	665	79.3
12	499	59.5
13	488	58.2
14	548	65.3
15	590	70.3

Average Number Correct: **5.4**
 Percent Correct: **35.8**
 N = 839 studen **839**

Spring Semester, 2014**"Pre-Quiz" Assessment**

Question	Total Incorrect	Percent Incorrect
1	486	64.6
2	549	73.0
3	283	37.6
4	561	74.6
5	608	80.9
6	566	75.3
7	480	63.8
8	613	81.5
9	496	66.0
10	401	53.3
11	621	82.6
12	434	57.7
13	507	67.4
14	507	67.4
15	559	74.3

Average Number Correct: **4.8**
 Percent Correct: **32.0**
 N = 752 studen **752**

**"Post-Quiz" Assessment
(Last Week of the semester)**

Question	Total Incorrect	Percent Incorrect
1	112	23.2
2	187	38.8
3	63	13.1
4	244	50.6
5	176	36.5
6	176	36.5
7	200	41.5
8	237	49.2
9	174	36.1
10	101	21.0
11	245	50.8
12	89	18.5
13	168	34.9
14	202	41.9
15	192	39.8

Average Number Correct: **9.7**
 Percent Correct: **64.5**
 N = 482 studen **482**

**"Post-Quiz" Assessment
(Last Week of the semester)**

Question	Total Incorrect	Percent Incorrect
1	192	28.0
2	306	44.7
3	122	17.8
4	295	43.1
5	249	36.4
6	216	31.5
7	255	37.2
8	246	35.9
9	191	27.9
10	106	15.5
11	287	41.9
12	105	15.3
13	191	27.9
14	238	34.7
15	236	34.5

Average Number Correct: **10.3**
 Percent Correct: **68.5**
 N = 685 studen **685**

**"Post-Quiz" Assessment
(Last Week of the semester)**

Question	Total Incorrect	Percent Incorrect
1	98	17.7
2	194	35.0
3	74	13.4
4	190	34.3
5	135	24.4
6	135	24.4
7	161	29.1
8	195	35.2
9	110	19.9
10	91	16.4
11	181	32.7
12	72	13.0
13	112	20.2
14	156	28.2
15	130	23.5

Average Number Correct: **11.3**
 Percent Correct: **75.5**
 N = 554 studen **554**

**"Post-Quiz" Assessment
(Last Week of the semester)**

Question	Total Incorrect	Percent Incorrect
1	210	34.7
2	266	43.9
3	132	21.8
4	253	41.7
5	226	37.3
6	236	38.9
7	247	40.8
8	292	48.2
9	196	32.3
10	104	17.2
11	266	43.9
12	123	20.3
13	172	28.4
14	219	36.1
15	224	37.0

Average Number Correct: **9.8**
 Percent Correct: **65.2**
 N = 606 studen **606**

Fall Semester, 2014
"Pre-Quiz" Assessment

Question	Total Incorrect	Percent Incorrect
1	523	62.5
2	627	74.9
3	313	37.4
4	626	74.8
5	680	81.2
6	640	76.5
7	538	64.3
8	694	82.9
9	570	68.1
10	487	58.2
11	697	83.3
12	511	61.1
13	562	67.1
14	588	70.3
15	618	73.8

Average Number Correct: **4.6**
 Percent Correct: **30.9**
 N = 837 studen **837**

Spring Semester, 2015
"Pre-Quiz" Assessment

Question	Total Incorrect	Percent Incorrect
1	449	61.5
2	491	67.3
3	255	34.9
4	534	73.2
5	590	80.8
6	530	72.6
7	463	63.4
8	589	80.7
9	457	62.6
10	388	53.2
11	576	78.9
12	418	57.3
13	444	60.8
14	496	67.9
15	523	71.6

Average Number Correct: **5.1**
 Percent Correct: **34.2**
 N = 730 studen **730**

Fall Semester, 2015
"Pre-Quiz" Assessment

Question	Total Incorrect	Percent Incorrect
1	400	60.5
2	478	72.3
3	254	38.4
4	501	75.8
5	563	85.2
6	517	78.2
7	427	64.6
8	559	84.6
9	440	66.6
10	381	57.6
11	560	84.7
12	416	62.9
13	449	67.9
14	473	71.6
15	497	75.2

Average Number Correct: **4.5**
 Percent Correct: **30.3**
 N = 661 studen **661**

Summary Data
"Pre-Quiz" Assessment

Total	% Incorrect
5283	63.4
6074	72.9
3035	36.4
6147	73.8
6610	79.4
6372	76.5
5386	64.7
6874	82.5
5472	65.7
4655	55.9
6811	81.8
5056	60.7
5323	63.9
5752	69.1
6236	74.9
8328	100.0

Average: 31.79529

"Post-Quiz" Assessment
(Last Week of the semester)

Question	Total Incorrect	Percent Incorrect
1	203	31.9
2	267	42.0
3	125	19.7
4	285	44.8
5	243	38.2
6	229	36.0
7	224	35.2
8	263	41.4
9	191	30.0
10	124	19.5
11	258	40.6
12	111	17.5
13	182	28.6
14	239	37.6
15	247	38.8

Average Number Correct: **10.0**
 Percent Correct: **66.6**
 N = 636 studen **636**

"Post-Quiz" Assessment
(Last Week of the semester)

Question	Total Incorrect	Percent Incorrect
1	103	23.6
2	142	32.5
3	69	15.8
4	162	37.1
5	138	31.6
6	131	30.0
7	147	33.6
8	183	41.9
9	117	26.8
10	92	21.1
11	153	35.0
12	81	18.5
13	121	27.7
14	129	29.5
15	151	34.6

Average Number Correct: **10.6**
 Percent Correct: **70.7**
 N = 437 studen **437**

"Post-Quiz" Assessment
(Last Week of the semester)

Question	Total Incorrect	Percent Incorrect
1	125	27.3
2	167.0	36.5
3	76	16.6
4	192	41.9
5	148	32.3
6	151	33.0
7	169	36.9
8	206	45.0
9	133	29.0
10	92	20.1
11	174	38.0
12	80	17.5
13	126	27.5
14	156	34.1
15	140	30.6

Average Number Correct: **10.3**
 Percent Correct: **68.9**
 N = 458 studen **458.0**

Total	% incorrect
1595	27.3
2307	39.4
945	16.2
2413	41.3
1986	34.0
1884	32.2
2129	36.4
2457	42.0
1693	29.0
1032	17.6
2406	41.1
996	17.0
1643	28.1
1954	33.4
2097	35.9
5848	100.0

Average: 68.77051