ASSESSMENT DAY

College of Arts and Sciences

School of Biological and Physical Sciences

November 23, 2015

Academic Assessment

TYPE OF REVIEW	LEVEL	FOCUS	CONDUCTED BY	FREQUENCY
Academic Success Committee	Program	• Quality of assessment practices	Committee of peers	Years 1 & 2
Instructional Program	Program / Cluster	• Enrollment, retention, completion • Industry certifications and job placement • Program budget and staffing • Advisory committees • Curriculum changes	Committee of peers	Year 3
Assessment Day	Course/ Program	• Enrollment by demographics • Graduation and retention • Average class size • Course success rate • Placement rate • SLOs, PLOs and ILOs	Program Chair and Faculty	Years 1, 2, 3

Programs

2230 - Environmental Science Technology

Classes (1 of 2)

AST1002 Astronomy

AST2905 Directed Study in Astronomy

BCH3023 Biochemistry I

BCH3023L Biochemistry I Lab

BOT1010 General Botany

BOT1010L General Botany Lab

BOT2150 Native Plants of Central Florida

BOT3151 Flora of Central Florida

BSC1005 Survey of Biological Sciences (For Non-Science Majors)

BSC1005L Survey of Biological Science (For Non-Science Majors) Lab

BSC1010 General Biology I (For Science Majors)

BSC1010L General Biology I (For Science Majors) Lab

BSC1011 General Biology II (For Science Majors)

BSC1011L General Biology II (For Science Majors) Lab

BSC1020 Human Biology

BSC1085 Human Anatomy and Physiology I

BSC1085L Human Anatomy and Physiology I Lab

BSC1086 Human Anatomy and Physiology II

BSC1086L Human Anatomy and Physiology II Lab

BSC2905 Directed Study in Biological Sciences

BSC2930 Biological Themes in Film

CHM1025 Introduction to Chemistry

CHM1025L Introduction to Chemistry Lab

CHM1045 General College Chemistry I

CHM1045L General College Chemistry I Lab

CHM1046 General College Chemistry II

CHM1046L General College Chemistry II Lab

CHM2210 Organic Chemistry

CHM2210L Organic Chemistry Lab

CHM2211 Organic Chemistry II

CHM2211L Organic Chemistry II Lab

CHM2905Directed Study in Chemistry

CHM3085 Environmental Chemistry

CHM3120 Quantitative Analysis

CHM3120L Quantitative Analysis Lab

EVR2001 Introduction to Environmental Science

EVR2001L Introduction to Environmental Science Lab

EVR2861 Environmental Policy

EVR2933 Environmental Seminar

Classes (2 of 2)

EVR2943 Environmental Internship

GIS2040 Geographic Information Systems

GIS2040L Geographic Information Systems Lab

GLY2010 Physical Geology

GLY2010L Physical Geology Lab

GLY2100 Historical Geology

MCB1010 Microbiology

MCB1010L Microbiology Lab

MCB2905 Directed Study in Microbiology

MET2010 Meteorology

OCB2000 Introduction to Marine Biology

OCB2000L Introduction to Marine Biology Lab

OCE1001 Introduction to Oceanography

OCE1001L Introduction to Oceanography Lab

OCE2013 Aquatic Environmental Science

OCE2013L Aquatic Environmental Science Lab

OCE3014 Oceanography: Coastal Ocean Studies in Biogeochemistry

OCE3014L Oceanography: Coastal Ocean Studies in Biogeochemistry Lab

PCB2033 Introduction to Ecology

PCB2033L Introduction to Ecology Lab

PCB2510 Human Genetics

PCB2510L Human Genetics Lab

PCB3034 General Ecology

PCB3034L General Ecology Lab

PCB3060 Introduction to Genetics

PCB3203 Cell Physiology

PHY1020 Energy and its Environmental Effects

PHY1053 General Physics I

PHY1053L General Physics I Lab

PHY1054 General Physics II

PHY1054L General Physics II Lab

PHY2048 Physics with Calculus I

PHY2048L Physics with Calculus I Lab

PHY2049 Physics with Calculus II

PHY2049L Physics with Calculus II Lab

PHY2905 Directed Study in Physics

PHY3101 Modern Physics

PHY3221 Classical Mechanics

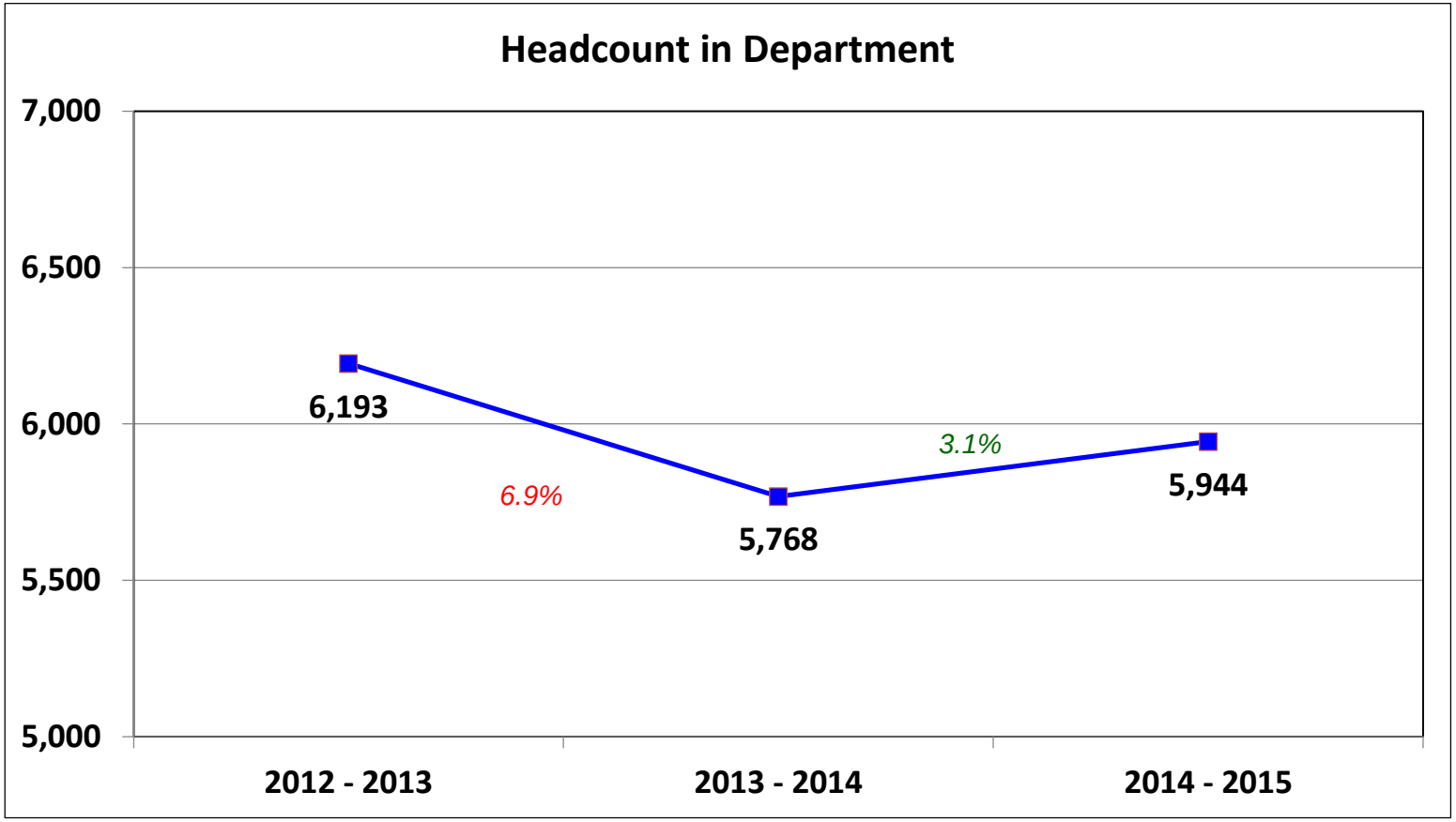
PHY3513 Thermal Physics (Thermodynamics and Elementary Statistical Mechanics)

PHY4424 Geometrical and Physical Optics

PSC1121 Physical Science

CHM1020 Chemistry in Society

OCE2905 Directed Study in Oceanography

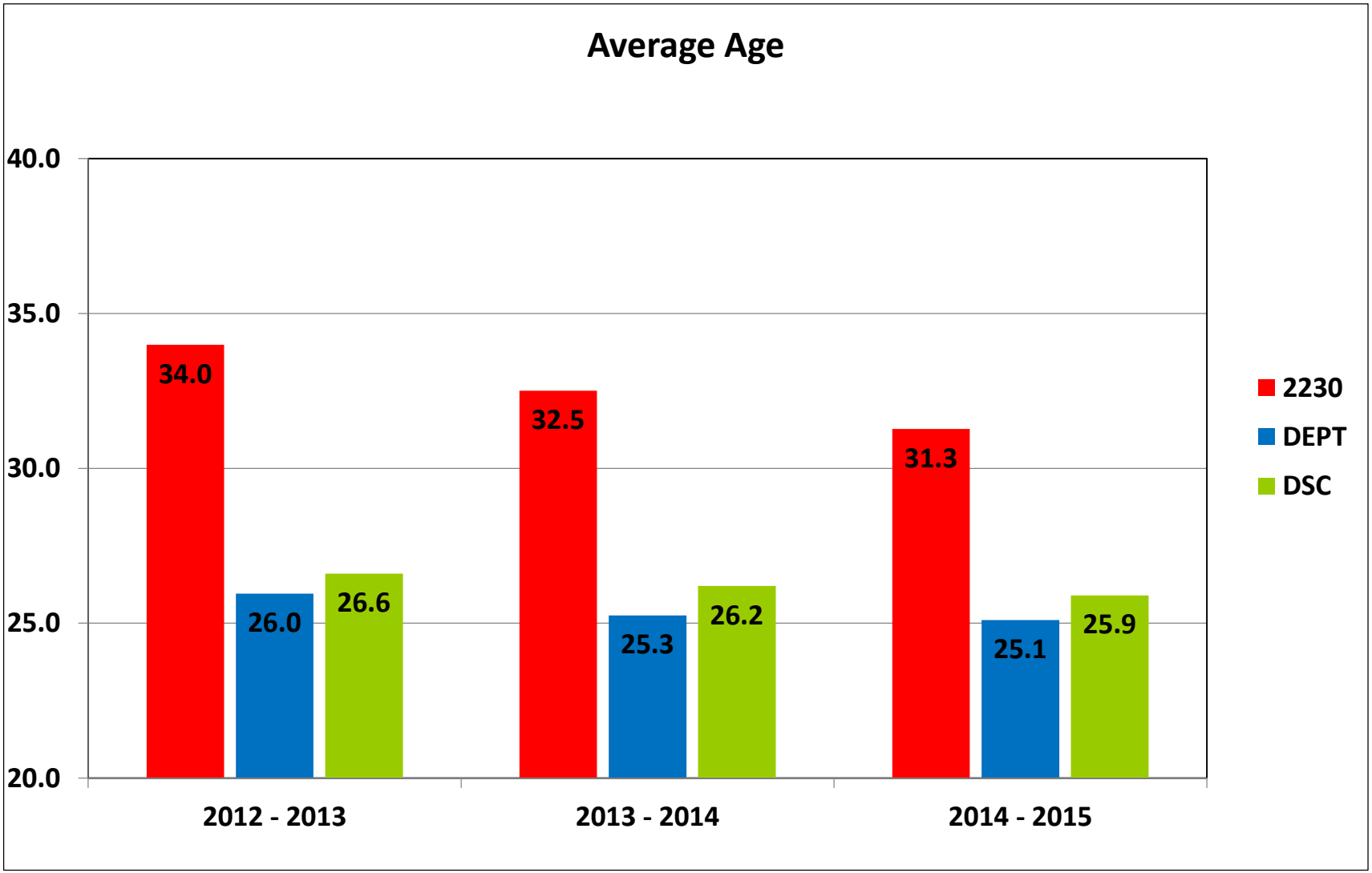


College Headcount decreased: 2012/13 (9.6%), 2013/14 (6%), 2014/15 (7%)

	2012 - 2013	2013 - 2014	2014 - 2015
2230 - Environmental Science Tech.	43	53	49

Headcount in majors includes students who have declared that major.
Headcount in department includes students taking courses in the department.

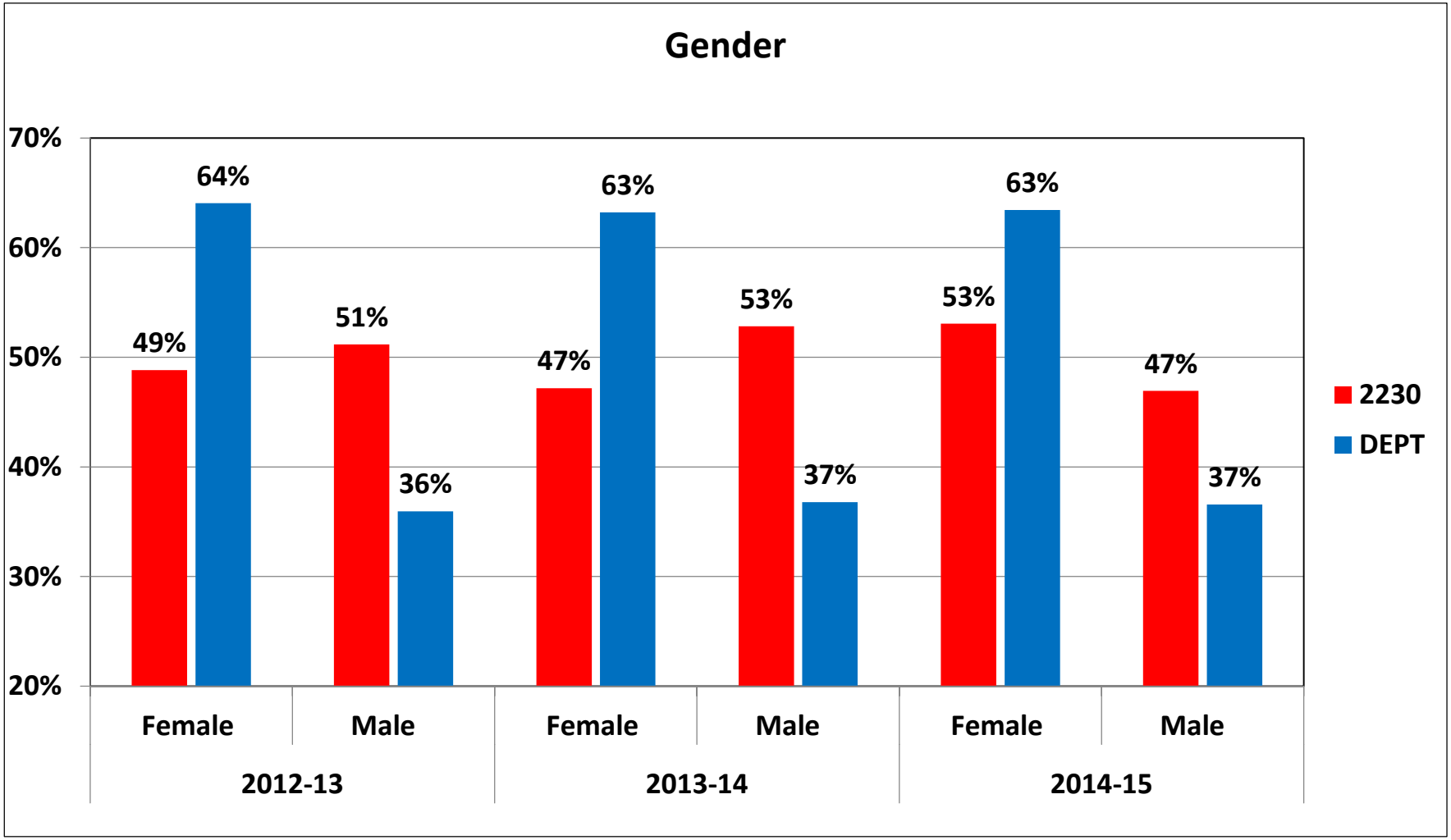
Source: IR Program Assessment Data



2230 - Environmental Science Technology

Calculation excludes individuals whose birthdates are not reported.

Source: IR Program Assessment Data



DSC averages: 60% female and 40% male

2230 - Environmental Science Technology

Excludes individuals whose gender is not reported.

Source: IR Program Assessment Data

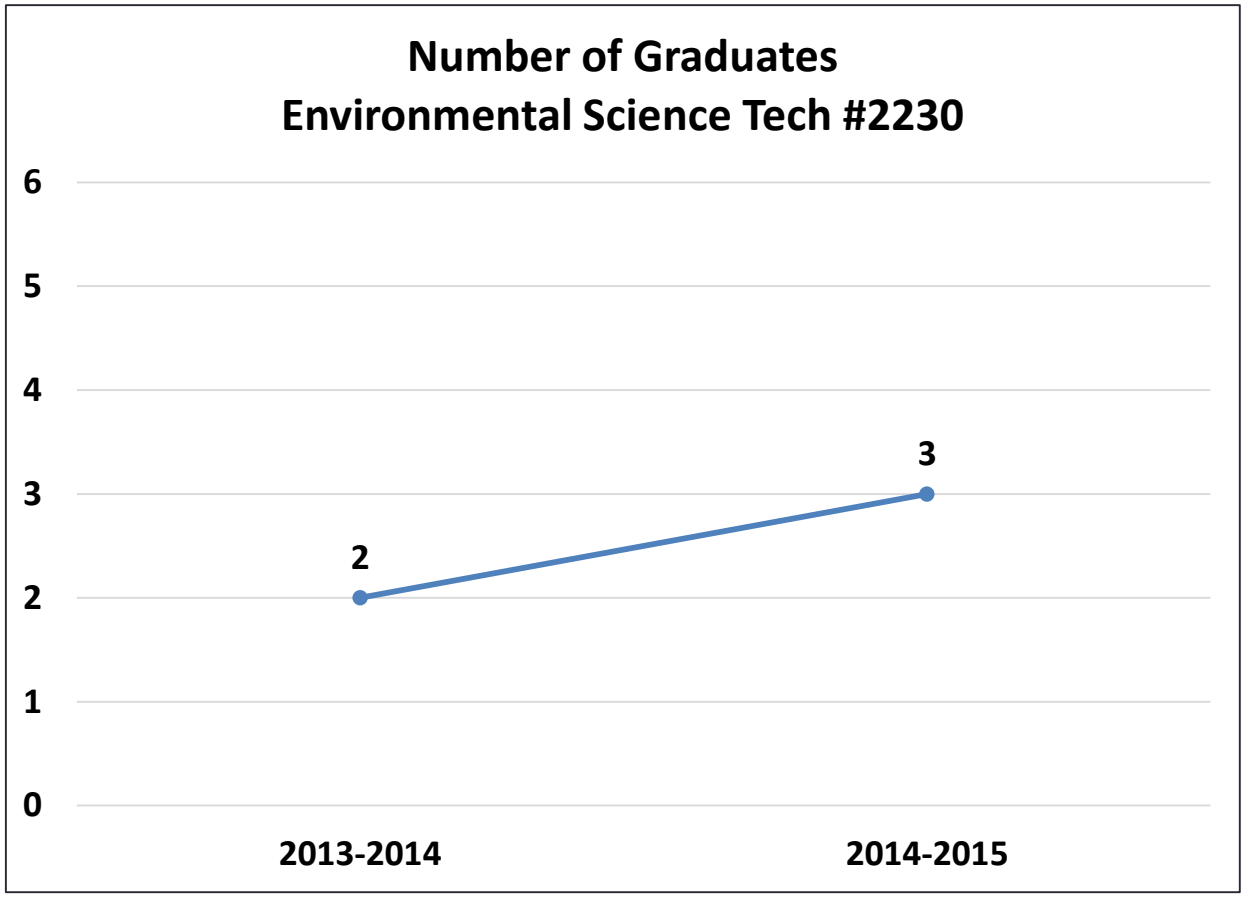
Enrollment by Race/Ethnicity

		2012 - 2013		2013 - 2014		2014 - 2015		DSC 2014/15
		#	%	#	%	#	%	
2230 - Environmental Science Tech.	Amer. Indian / Alaska Native					**1**	**2%**	**0.4%**
	Asian					**1**	**2%**	**2%**
	Black or African American	**5**	**12%**	**5**	**9%**	**2**	**4%**	**14%**
	Hispanic	**1**	**2%**	**2**	**4%**	**4**	**8%**	**15%**
	Two or More Races			**1**	**2%**	**1**	**2%**	**1%**
	White	**37**	**86%**	**42**	**79%**	**39**	**80%**	**67%**
Biological/Physical Sciences	Amer. Indian / Alaska Native	**27**	**0.4%**	**31**	**1%**	**26**	**0.4%**	**0.4%**
	Asian	**169**	**3%**	**161**	**3%**	**187**	**3%**	**2%**
	Black or African American	**689**	**11%**	**622**	**11%**	**705**	**12%**	**14%**
	Hispanic	**737**	**12%**	**713**	**12%**	**793**	**14%**	**15%**
	Native Hawaii. / Pac. Islander	**10**	**0.2%**	**6**	**0.1%**	**10**	**0.2%**	**0.2%**
	Two or More Races	**80**	**1%**	**109**	**2%**	**112**	**2%**	**1%**
	White	**4411**	**72%**	**4070**	**71%**	**4022**	**69%**	**67%**

Blank cells or missing years indicate no enrollment.

Excludes individuals whose race / ethnicity is not reported.

Source: IR Program Assessment Data



Source: IR Program Assessment Data

Graduation Rates

Major	Fall Cohort Year	# in Cohort	Graduated within 150% Time	150% Graduation Rate	Graduated within 200% Time	200% Graduation Rate
2230- Environmental Science Technology	2010	N/A				
	2011	11	0	**0.0%**	0	**0.0%**
	2012	11	0	**0.0%**	0	**0.0%**

Less than College average (150%- 44.8%, 200%- 49.23%)

Fall Cohort Year includes prior Summer term enrollment in major.

Graduation within 200% time includes graduates within 150% time.

Source: IR Program Assessment Data

Retention Rates

Program and Year		Registered	Exclusions	Adjusted Cohort	Retained by DSC		Retained by Program		Total Retained
					N	%	N	%	
2230 - ENVIRONMENTAL SCIENCE TECH.	2011	11		11	2	18.18%	4	36.36%	54.55%
	2012	22		22	2	9.09%	9	40.91%	50.00%
	2013	39	2	37	6	16.22%	11	29.73%	45.95%

Less than College average (FT- 60.48%, PT- 52.08%)

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.
Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.
Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.
Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

Average Class Size by Course (1 of 2)

Major and Associated Courses		2012-2013		2013-2014		2014-2015	
		Sections	Avg. Size	Sections	Avg. Size	Sections	Avg. Size
2230 - Environmental Science Tech.	EVR2001	1	4	1	6	1	7
	EVR2861	1	3	1	4		
	EVR2933			1	2	1	5
	GIS2040	1	12	1	16	1	16
	OCE2013	1	4			1	7
	PCB2033	1	4	1	2	1	5
	PHY1020	1	9	1	25	1	25
	Total	6	6	6	9	6	11
Upper Division Courses	BCH3023	1	14	1	17	1	6
	PCB3034	1	11	1	3	1	3
	PCB3060	1	5	1	10	1	11
	PCB3203	1	11	1	10	1	5
	BOT3151	1	7	1	7	1	2
	Total	5	10	5	15	5	6

Years are reporting years, SU-SP.

Blank cells or missing years indicate no enrollment.

To prevent data from skewing, excludes labs, OJT, clinicals, private/performance, open lab, co-op, directed independent study and internships.

Source: IR Program Assessment Data

Average Class Size by Course (2 of 2)

Dept. and Associated Courses		2012-2013		2013-2014		2014-2015	
		Sections	Avg. Size	Sections	Avg. Size	Sections	Avg. Size
Biological/Physical Sciences	AST1002	20	31	21	30	13	42
	BOT1010	2	29	2	29	2	19
	BSC1005	25	33	21	36	18	42
	BSC1010	13	47	13	44	13	40
	BSC1011	5	26	5	26	5	22
	BSC1020	24	42	13	48	14	47
	BSC1085	27	54	26	51	24	57
	BSC1086	25	35	23	35	23	34
	BSC2930	7	32	9	37	9	49
	CHM1025	17	44	17	45	20	39
	CHM1045	8	38	8	41	8	44
	CHM1046	5	31	5	24	5	33
	CHM2210	1	34	1	37	1	34
	CHM2211	1	19	1	25	1	24
	GLY2010	2	17	1	14	1	16
	MCB1010	23	25	18	30	17	32
	MET2010	4	32	8	41	8	49
	OCB2000	2	36	2	36	2	30
	OCE1001	6	32	4	29	5	29
	PHY1053	3	34	1	49	2	42
	PHY1054	3	15	1	38	1	39
	PHY2048	2	35	1	38	1	65
	PHY2049	2	26	1	21	1	44
	PSC1121	27	31	21	35	18	44
	Total	254	36	223	38	212	41

Years are reporting years, SU-SP.

Blank cells or missing years indicate no enrollment.

To prevent data from skewing, excludes labs, OJT, clinicals, private/performance, open lab, co-op, directed independent study and internships.

Source: IR Program Assessment Data

Average Class Size – Multiple Methods Only

Dept., Associated Courses and Instructional Method			2012-2013		2013-2014		2014-2015	
			Sections	Avg. Size	Sections	Avg. Size	Sections	Avg. Size
Biological/Physical Sciences	AST1002	Lecture	12	27	14	25	4	32
		Online	8	38	7	40	9	47
		Total	20	31	21	30	13	42
	BSC1005	Hybrid	1	24	1	16	2	27
		Lecture	18	36	14	41	11	47
		Online	6	28	6	29	5	35
		Total	25	33	21	36	18	42
	BSC1020	Lecture	4	56	5	52	6	49
		Online	20	39	8	45	8	47
		Total	24	42	13	48	14	47
	BSC1085	Lecture	24	57	23	52	22	55
		Online	3	34	3	41	2	78
		Total	27	54	26	51	24	57
	BSC1086	Lecture	22	35	20	36	21	34
		Online	3	32	3	35	2	40
		Total	25	35	23	35	23	34
	BSC2930	Lecture	2	30	2	30	2	33
		Online	5	33	7	40	7	54
		Total	7	32	9	37	9	49
	CHM1025	Hybrid	5	24	5	26	5	24
		Lecture	12	52	12	53	13	44
		Online					2	40
		Total	17	44	17	45	20	39
	MCB1010	Lecture	19	25	15	30	15	31
		Online	4	24	3	29	2	40
		Total	23	25	18	30	17	32
	MET2010	Lecture	4	32	3	38	2	72
		Online			5	42	6	41
		Total	4	32	8	41	8	49
	PSC1121	Hybrid	1	18	1	24	1	28
		Lecture	9	27	6	28	3	47
		Online	17	34	14	40	14	45
		Total	27	31	21	35	18	44

To prevent data from skewing, the following instructional methods are excluded: labs associated with lectures, Private/Performance, OJT, clinicals, co-op, DIS, field trips and internships. Years are reporting years, SU-SP. Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

Average Class Size Totals

Major or Dept. and Instructional Method		2012-2013		2013-2014		2014-2015	
		Sections	Avg. Size	Sections	Avg. Size	Sections	Avg. Size
2230 - Environmental Science Tech.	Lecture	6	6	6	9	5	12
	Online					1	7
	Total	6	6	6	9	6	11
Upper Division Courses	Hybrid	1	11	1	3	1	3
	Lecture	4	9	4	10	4	5
	Total	5	10	5	7	5	4
Biological/Physical Sciences	Hybrid	15	26	12	25	14	26
	Lecture	173	38	155	39	141	41
	Online	66	35	56	39	57	46
	Total	254	36	223	38	212	41
Total		265	35	234	37	223	40

College Total

Instructional Method	2012-2013	2013-2014	2014-2015
	Avg. Size	Avg. Size	Avg. Size
Hybrid	22	22	22
Lecture	23	23	22
Online	27	28	29
College Total	24	24	24

To prevent data from skewing, the following instructional methods are excluded: labs associated with lectures, Private/Performance, OJT, clinicals, co-op, DIS, field trips and internships. Years are reporting years, SU-SP. Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

Course Success Rate

Major or Department, Associated Courses and Instructional Method		2012-2013		2013-2014		2014-2015	
		Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
2230 – Environmental Science Tech.	EVR2001	4	100%	6	67%	7	100%
	EVR2861	3	33%	4	100%		
	EVR2933			2	100%	5	100%
	GIS2040	12	75%	16	75%	16	94%
	OCE2013	4	100%	1	100%	7	86%
	PCB2033	4	100%	2	100%	5	100%
	PHY1020	9	78%	25	68%	25	72%
Upper Division	BCH3023	14	86%	17	100%	6	100%
	PCB3034	11	82%	3	100%	3	100%
	PCB3060	5	80%	10	80%	11	64%
	PCB3203	11	82%	10	80%	5	80%
	BOT3151	7	86%	7	100%	2	50%
SCI- Biological & Physical Science	AST1002	628	69%	632	71%	551	87%
	BOT1010	57	88%	58	84%	38	92%
	BSC1005	832	81%	764	81%	747	82%
	BSC1010	605	73%	577	72%	523	70%
	BSC1011	131	79%	131	82%	112	83%
	BSC1020	1,005	82%	619	77%	664	76%
	BSC1085	1,460	62%	1,316	62%	1,366	62%
	BSC1086	870	81%	814	85%	786	80%
	BSC2930	226	69%	337	76%	440	79%
	CHM1025	746	85%	766	89%	772	85%
	CHM1045	307	72%	329	67%	353	78%
	CHM1046	155	85%	122	80%	167	83%
	CHM2210	34	79%	37	84%	34	82%
	CHM2211	19	100%	25	76%	24	96%
	GLY2010	34	82%	14	93%	16	100%
	MCB1010	581	85%	532	88%	539	88%
	MET2010	127	80%	324	79%	390	73%
	OCB2000	71	77%	72	74%	59	78%
	OCE1001	191	93%	116	85%	143	78%
	PHY1053	102	82%	49	90%	83	84%
	PHY1054	44	91%	38	97%	39	95%
	PHY2048	69	90%	38	82%	65	94%
	PHY2049	52	96%	21	67%	44	86%
	PSC1121	845	83%	744	84%	792	90%
DSC			78%		77%		78%

Indicates a 70% success rate or higher

Source: IR Program Assessment Data

Course Success Rate by Campus – Multiple Campuses Only (1 of 4)

Dept., Associated Courses and Campus			2012-2013		2013-2014		2014-2015	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Sciences	AST1002	Daytona	181	57%	157	66%		
		Deland	73	82%	106	81%	63	90%
		Deltona	27	74%	45	76%		
		Flagler/Palm Cst	40	68%	41	78%	66	97%
		Total	321	66%	349	73%	129	94%
	BSC1005	Daytona	364	88%	334	87%	327	87%
		Deland	144	72%	104	79%	78	90%
		Deltona	24	63%	45	84%	38	76%
		Flagler/Palm Cst	89	85%	68	84%	91	79%
		New Smyrna Beach	42	69%	38	68%	36	64%
		Total	663	82%	589	84%	570	84%
	BSC1005L	Daytona	56	79%	44	89%	49	88%
		Deland	26	85%			9	78%
		Flagler/Palm Cst	31	84%	12	100%	10	100%
		Total	113	81%	56	91%	68	88%
	BSC1010	Daytona	330	65%	305	65%	279	59%
		Deland	126	78%	125	71%	120	77%
		Flagler/Palm Cst	109	90%	111	90%	85	91%
		New Smyrna Beach	40	75%	36	75%	39	87%
		Total	605	73%	577	72%	523	70%
	BSC1010L	Daytona	330	65%	305	65%	279	59%
		Deland	126	78%	125	71%	120	77%
		Flagler/Palm Cst	109	90%	111	90%	85	91%
		New Smyrna Beach	40	75%	36	75%	39	87%
		Total	605	73%	577	72%	523	70%
	BSC1011	Daytona	118	79%	111	80%	100	82%
		Deland	13	77%	20	90%	12	92%
		Total	131	79%	131	82%	112	83%
	BSC1011L	Daytona	118	79%	111	80%	100	82%
		Deland	13	77%	20	90%	12	92%
		Total	131	79%	131	82%	112	83%
	BSC1020	Daytona	150	79%	145	83%	146	62%
		Deland	75	79%	83	76%	119	87%
		Deltona			33	88%	26	88%
		Total	225	79%	261	82%	291	75%

Indicates a 70% success rate or higher

Excludes fully online courses

Source: IR Program Assessment Data

Course Success Rate by Campus – Multiple Campuses Only (2 of 4)

Dept., Associated Courses and Campus			2012-2013		2013-2014		2014-2015	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Sciences	BSC1085	Daytona	757	55%	632	58%	644	56%
		Deland	374	68%	356	63%	371	58%
		Flagler/Palm Cst	162	62%	126	61%	141	79%
		New Smyrna Beach	64	77%	78	76%	54	80%
		Total	1357	61%	1192	61%	1210	60%
	BSC1085L	Daytona	757	55%	632	58%	644	56%
		Deland	444	69%	443	66%	441	61%
		Flagler/Palm Cst	162	62%	126	61%	141	79%
		New Smyrna Beach	97	77%	115	73%	140	72%
		Total	1460	62%	1316	62%	1366	62%
	BSC1086	Daytona	385	85%	363	84%	344	78%
		Deland	244	76%	197	83%	214	80%
		Flagler/Palm Cst	91	78%	87	83%	98	85%
		New Smyrna Beach	55	84%	63	92%	51	88%
		Total	775	81%	710	84%	707	80%
	BSC1086L	Daytona	385	85%	363	84%	345	79%
		Deland	318	77%	285	85%	272	78%
		Flagler/Palm Cst	91	78%	87	83%	98	85%
		New Smyrna Beach	76	88%	79	94%	71	90%
		Total	870	81%	814	85%	786	80%
	CHM1025	Daytona	437	85%	440	86%	380	82%
		Deland	139	81%	151	89%	129	87%
		Flagler/Palm Cst	139	90%	139	96%	148	88%
		New Smyrna Beach	31	71%	36	92%	35	83%
		Total	746	85%	766	89%	692	84%
	CHM1025L	Daytona	437	85%	440	86%	460	83%
		Deland	139	81%	151	89%	129	87%
		Flagler/Palm Cst	139	90%	139	96%	148	88%
		New Smyrna Beach	31	71%	36	92%	35	83%
		Total	746	85%	766	89%	772	85%
	CHM1045	Daytona	246	73%	248	64%	283	78%
		Deland	61	69%	81	75%	70	76%
		Total	307	72%	329	67%	353	78%

Indicates a 70% success rate or higher

Excludes fully online courses

Source: IR Program Assessment Data

Course Success Rate by Campus – Multiple Campuses Only (3 of 4)

Dept., Associated Courses and Campus			2012-2013		2013-2014		2014-2015	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Science	CHM1045L	Daytona	246	73%	248	64%	283	78%
		Deland	61	69%	81	75%	70	76%
		Total	307	72%	329	67%	353	78%
	CHM1046	Daytona	134	87%	104	83%	150	84%
		Deland	21	67%	18	61%	17	71%
		Total	155	85%	122	80%	167	83%
	CHM1046L	Daytona	134	87%	104	83%	150	84%
		Deland	21	67%	18	61%	17	71%
		Total	155	85%	122	80%	167	83%
	MCB1010	Daytona	224	81%	199	85%	211	82%
		Deland	126	89%	130	90%	133	95%
		Flagler/Palm Cst	103	90%	98	96%	96	98%
		New Smyrna Beach	31	74%	17	76%	19	84%
		Total	484	85%	444	89%	459	89%
	MCB1010L	Daytona	321	83%	287	85%	291	82%
		Deland	126	89%	130	90%	133	95%
		Flagler/Palm Cst	103	90%	98	96%	96	98%
		New Smyrna Beach	31	74%	17	76%	19	84%
		Total	581	85%	532	88%	539	88%
	OCE1001	Daytona	99	94%	93	87%	67	82%
		Deland	62	94%	23	78%		
		Flagler/Palm Cst					24	75%
		New Smyrna Beach	30	87%			52	75%
		Total	191	93%	116	85%	143	78%
	PHY1053	Daytona	91	81%	49	90%	66	85%
		Deland	11	91%			17	82%
		Total	102	82%	49	90%	83	84%

Indicates a 70% success rate or higher

Excludes fully online courses

Source: IR Program Assessment Data

Course Success Rate by Campus – Multiple Campuses Only (4 of 4)

Dept., Associated Courses and Campus			2012-2013		2013-2014		2014-2015	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Science	PHY1053L	Daytona	91	81%	49	90%	66	85%
		Deland	11	91%			17	82%
		Total	102	82%	49	90%	83	84%
	PSC1121	Daytona	170	69%	121	62%	75	89%
		Deland	61	87%	45	96%	28	96%
		Deltona	14	86%			38	82%
		Flagler/Palm Cst	18	94%	24	83%	28	96%
		Total	263	76%	190	73%	169	90%

Indicates a 70% success rate or higher

Excludes fully online courses

Source: IR Program Assessment Data

Course Success Rate By Instructional Method – Multiple Methods Only (1 of 3)

Major, Associated Courses and Instructional Method			2012-2013		2013-2014		2014-2015	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
2230 – Environmental Science Technology	EVR2861	DIS			1	100%		
		Lecture	3	33%	4	100%		
		Course Total	3	33%	5	100%		
	OCE2013	DIS			1	100%		
		Lecture	4	100%				
		Online					7	86%
		Course Total	4	100%	1	100%	7	86%
	OCE2013L	DIS			1	100%		
		Lab	4	100%			7	86%
		Course Total	4	100%	1	100%	7	86%

Indicates a 70% success rate or higher

Source: IR Program Assessment Data

Course Success Rate By Instructional Method – Multiple Methods Only (2 of 3)

Dept., Associated Courses and Instructional Method			2012-2013		2013-2014		2014-2015	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Science	AST1002	Lecture	321	66%	349	73%	129	94%
		Online	307	72%	283	69%	422	85%
		Total	628	69%	632	71%	551	87%
	BSC1005	Hybrid	24	67%	16	69%	54	78%
		Lecture	639	83%	573	84%	516	84%
		Online	169	73%	175	74%	177	76%
		Total	832	81%	764	81%	747	82%
	BSC1020	Lecture	225	79%	261	82%	291	75%
		Online	780	83%	358	73%	373	77%
		Total	1005	82%	619	77%	664	76%
	BSC1085	Lecture	1357	61%	1192	61%	1210	60%
		Online	103	79%	124	77%	156	72%
		Total	1460	62%	1316	62%	1366	62%
	BSC1085L	Hybrid					104	76%
		Lab	1460	62%	1316	62%	1262	61%
		Total	1460	62%	1316	62%	1366	62%

Indicates a 70% success rate or higher

Source: IR Program Assessment Data

Course Success Rate By Instructional Method – Multiple Methods Only (3 of 3)

Dept., Associated Courses and Instructional Method			2012-2013		2013-2014		2014-2015	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Science	BSC1086	Lecture	775	81%	710	84%	707	80%
		Online	95	83%	104	90%	79	77%
		Total	870	81%	814	85%	786	80%
	BSC1086L	Hybrid					147	88%
		Lab	870	81%	814	85%	639	78%
		Total	870	81%	814	85%	786	80%
	BSC2930	Lecture	60	80%	59	78%	65	78%
		Online	166	65%	278	76%	375	79%
		Total	226	69%	337	76%	440	79%
	CHM1025	Hybrid	121	80%	131	87%	120	85%
		Lecture	625	86%	635	89%	572	84%
		Online					80	88%
		Total	746	85%	766	89%	772	85%
	MCB1010	Lecture	484	85%	444	89%	459	89%
		Online	97	87%	88	84%	80	81%
		Total	581	85%	532	88%	539	88%
	MET2010	Lecture	127	80%	113	74%	143	65%
		Online			211	81%	247	78%
		Total	127	80%	324	79%	390	73%
	PSC1121	Hybrid	18	94%	24	83%	28	96%
		Lecture	245	74%	166	71%	141	89%
		Online	582	86%	554	87%	623	90%
		Total	845	83%	744	84%	792	90%

Indicates a 70% success rate or higher

Source: IR Program Assessment Data

Course Success Rates- Multiple Sessions or Sub-sessions Only (1 of 6)

Major or Dept., Associated Courses and Sub-session				2012-2013		2013-2014		2014-2015	
				Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
2230 – Environmental Science Technology	EVR2861	FA	Full term			4	100%		
		SP	Full term	3	33%	1	100%		
			Total	3	33%	5	100%		
	OCE2013	FA	Full term	4	100%	1	100%		
		SP	Full term					7	86%
			Total	4	100%	1	100%	7	86%
	OCE2013L	FA	Full term	4	100%	1	100%		
		SP	Full term					7	86%
			Total	4	100%	1	100%	7	86%
	PCB2033	FA	Full term					5	100%
		SP	Full term	4	100%	2	100%		
			Total	4	100%	2	100%	5	100%
	PCB2033L	FA	Full term					5	100%
		SP	Full term	4	100%	2	100%		
			Total	4	100%	2	100%	5	100%
Biological/ Physical Science	AST1002	FA	A term	43	88%	34	59%	69	84%
			B term	34	82%	51	51%	42	83%
			Full term	214	69%	213	72%	124	85%
			Session Total	291	73%	298	67%	235	84%
		SP	A term	37	54%	47	83%	57	89%
			B term	70	53%	83	82%	109	83%
			Full term	116	58%	146	70%	65	97%
			Session Total	223	56%	276	76%	231	88%
		SU	Full term	114	82%	58	69%	85	89%
			Total	628	69%	632	71%	551	87%
	BOT1010	FA	Full term	20	95%	32	84%	19	89%
		SP	Full term	37	84%	26	85%	19	95%
			Total	57	88%	58	84%	38	92%
	BOT1010L	FA	Full term	20	95%	32	84%	19	89%
		SP	Full term	37	84%	26	85%	19	95%
			Total	57	88%	58	84%	38	92%
	BSC1005	FA	Full term	414	80%	397	81%	372	81%
		SP	Full term	358	79%	321	80%	338	81%
		SU	Full term	60	92%	46	91%	37	95%
			Total	832	81%	764	81%	747	82%

Years are reporting years, SU-SP.
Blank cells or missing years indicate no enrollment.

Indicates a 70% success rate or higher

Source: IR Program Assessment Data

Course Success Rates- Multiple Sessions or Sub-sessions Only (2 of 6)

Dept., Associated Courses and Sub-session				2012-2013		2013-2014		2014-2015	
				Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Sciences	BSC1005L	FA	Full term	59	85%	26	100%	36	92%
		SP	Full term	42	76%	16	88%	21	76%
		SU	Full term	12	83%	14	79%	11	100%
			Total	113	81%	56	91%	68	88%
	BSC1010	FA	Full term	329	72%	311	74%	252	71%
		SP	Full term	234	74%	225	67%	233	67%
		SU	Full term	42	74%	41	83%	38	84%
			Total	605	73%	577	72%	523	70%
	BSC1010L	FA	Full term	329	72%	311	74%	252	71%
		SP	Full term	234	74%	225	67%	233	67%
		SU	Full term	42	74%	41	83%	38	84%
			Total	605	73%	577	72%	523	70%
	BSC1011	FA	Full term	32	69%	37	78%	39	72%
		SP	Full term	77	83%	77	79%	62	87%
		SU	Full term	22	77%	17	100%	11	100%
			Total	131	79%	131	82%	112	83%
	BSC1011L	FA	Full term	32	69%	37	78%	39	72%
		SP	Full term	77	83%	77	79%	62	87%
		SU	Full term	22	77%	17	100%	11	100%
			Total	131	79%	131	82%	112	83%
	BSC1020	FA	A term	74	89%	88	78%	49	76%
			B term	115	82%	87	59%	57	75%
			Full term	233	79%	197	81%	270	75%
			Session Total	422	82%	372	75%	376	75%
		SP	A term	74	89%				
			B term	94	80%	66	73%	74	77%
			Full term	218	75%	181	82%	214	77%
			Session Total	386	79%	247	80%	288	77%
		SU	Full term	197	89%				
			Total	1005	82%	619	77%	664	76%

Years are reporting years, SU-SP. Indicates a 70% success rate or higher
Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

Course Success Rates- Multiple Sessions or Sub-sessions Only (3 of 6)

Dept., Associated Courses and Sub-session				2012-2013		2013-2014		2014-2015	
				Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Sciences	BSC1085	FA	A term	18	67%	22	86%	17	82%
			Full term	686	56%	605	63%	656	55%
			Session Total	704	56%	627	64%	673	56%
		SP	A term	20	90%	29	72%	16	88%
			Full term	580	63%	529	55%	573	65%
			Session Total	600	64%	558	56%	589	66%
		SU	Full term	156	80%	131	81%	104	76%
			Total	1460	62%	1316	62%	1366	62%
	BSC1085L	FA	A term	18	67%	22	86%	17	82%
			Full term	686	56%	605	63%	656	55%
			Session Total	704	56%	627	64%	673	56%
		SP	A term	20	90%	29	72%	16	88%
			Full term	580	63%	529	55%	573	65%
			Session Total	600	64%	558	56%	589	66%
		SU	Full term	156	80%	131	81%	104	76%
			Total	1460	62%	1316	62%	1366	62%
	BSC1086	FA	B term	19	89%	18	94%	17	82%
			Full term	272	79%	213	78%	208	78%
			Session Total	291	80%	231	79%	225	79%
		SP	B term	19	68%	21	95%	18	89%
			Full term	387	79%	409	84%	396	78%
			Session Total	406	78%	430	84%	414	78%
		SU	Full term	173	91%	153	95%	147	88%
			Total	870	81%	814	85%	786	80%
	BSC1086L	FA	B term	19	89%	18	94%	17	82%
			Full term	272	79%	213	78%	208	78%
			Session Total	291	80%	231	79%	225	79%
		SP	B term	19	68%	21	95%	18	89%
			Full term	387	79%	409	84%	396	78%
			Session Total	406	78%	430	84%	414	78%
		SU	Full term	173	91%	153	95%	147	88%
			Total	870	81%	814	85%	786	80%
	BSC2930	FA	B term			36	69%		
			Full term	96	65%	96	80%	171	79%
			Session Total	96	65%	132	77%	171	79%
		SP	B term					56	77%
			Full term	130	72%	133	71%	131	79%
			Session Total	130	72%	133	71%	187	78%
		SU	Full term			72	82%	82	80%
			Total	226	69%	337	76%	440	79%

Years are reporting years, SU-SP.
Blank cells or missing years indicate no enrollment.

Indicates a 70% success rate or higher

Source: IR Program Assessment Data

Course Success Rates- Multiple Sessions or Sub-sessions Only (4 of 6)

Dept., Associated Courses and Sub-session				2012-2013		2013-2014		2014-2015	
				Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Sciences	CHM1025	FA	Full term	327	80%	347	90%	343	84%
		SP	Full term	354	87%	348	88%	357	84%
		SU	Full term	65	95%	71	90%	72	94%
			Total	746	85%	766	89%	772	85%
	CHM1025L	FA	Full term	327	80%	347	90%	343	84%
		SP	Full term	354	87%	348	88%	357	84%
		SU	Full term	65	95%	71	90%	72	94%
			Total	746	85%	766	89%	772	85%
	CHM1045	FA	Full term	136	71%	139	63%	151	81%
		SP	Full term	115	66%	134	64%	148	78%
		SU	Full term	56	89%	56	82%	54	69%
			Total	307	72%	329	67%	353	78%
	CHM1045L	FA	Full term	136	71%	139	63%	151	81%
		SP	Full term	115	66%	134	64%	148	78%
		SU	Full term	56	89%	56	82%	54	69%
			Total	307	72%	329	67%	353	78%
	CHM1046	FA	Full term	40	83%	33	88%	35	66%
		SP	Full term	61	79%	58	72%	88	84%
		SU	Full term	54	93%	31	84%	44	93%
			Total	155	85%	122	80%	167	83%
	CHM1046L	FA	Full term	40	83%	33	88%	35	66%
		SP	Full term	61	79%	58	72%	88	84%
		SU	Full term	54	93%	31	84%	44	93%
			Total	155	85%	122	80%	167	83%
	CHM2905	FA	Full term					1	100%
		SP	Full term					1	100%
			Total					2	100%
	GLY2010	FA	Full term	16	88%			16	100%
		SP	Full term	18	78%	14	93%		
			Total	34	82%	14	93%	16	100%
	GLY2010L	FA	Full term	16	88%			16	100%
		SP	Full term	18	78%	14	93%		
			Total	34	82%	14	93%	16	100%
	MCB1010	FA	Full term	209	84%	192	88%	195	86%
		SP	Full term	250	86%	232	87%	247	87%
		SU	Full term	122	84%	108	92%	97	95%
			Total	581	85%	532	88%	539	88%

Years are reporting years, SU-SP.

Blank cells or missing years indicate no enrollment.

Indicates a 70% success rate or higher

Source: IR Program Assessment Data

Course Success Rates- Multiple Sessions or Sub-sessions Only (5 of 6)

Dept., Associated Courses and Sub-session				2012-2013		2013-2014		2014-2015	
				Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Sciences	MCB1010L	FA	Full term	209	84%	192	88%	195	86%
		SP	Full term	250	86%	232	87%	247	87%
		SU	Full term	122	84%	108	92%	97	95%
			Total	581	85%	532	88%	539	88%
	MCB2905	FA	Full term			1	100%	1	100%
		SP	Full term			3	100%		
		SU	Full term			1	100%		
			Total			5	100%	1	100%
	MET2010	FA	Full term	74	88%	134	74%	142	74%
		SP	Full term	53	68%	136	80%	153	73%
		SU	Full term			54	87%	95	73%
			Total	127	80%	324	79%	390	73%
	OCB2000	FA	Full term	38	76%	38	71%	40	75%
		SP	Full term	33	79%	34	76%	19	84%
			Total	71	77%	72	74%	59	78%
	OCB2000L	FA	Full term	38	76%	38	71%	40	75%
		SP	Full term	33	79%	34	76%	19	84%
			Total	71	77%	72	74%	59	78%
	OCE1001	FA	Full term	92	93%	81	80%	63	89%
		SP	Full term	99	92%	35	97%	80	70%
			Total	191	93%	116	85%	143	78%
	OCE1001L	FA	Full term			15	67%	5	80%
		SP	Full term			7	71%	5	20%
			Total			22	68%	10	50%
	PHY1053	FA	Full term	57	79%	49	90%	83	84%
		SP	Full term	45	87%				
			Total	102	82%	49	90%	83	84%
	PHY1053L	FA	Full term	57	79%	49	90%	83	84%
		SP	Full term	45	87%				
			Total	102	82%	49	90%	83	84%
	PHY1054	SP	Full term	30	93%	38	97%	39	95%
		SU	Full term	14	86%				
			Total	44	91%	38	97%	39	95%

Years are reporting years, SU-SP. Indicates a 70% success rate or higher
Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

Course Success Rates- Multiple Sessions or Sub-sessions Only (6 of 6)

Dept., Associated Courses and Sub-session				2012-2013		2013-2014		2014-2015	
				Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
Biological/ Physical Sciences	PHY1054L	SP	Full term	30	93%	38	97%	39	95%
		SU	Full term	14	86%				
			Total	44	91%	38	97%	39	95%
	PHY2048	FA	Full term	43	84%	38	82%	65	94%
		SP	Full term	26	100%				
			Total	69	90%	38	82%	65	94%
	PHY2048L	FA	Full term	43	84%	38	82%	65	94%
		SP	Full term	26	100%				
			Total	69	90%	38	82%	65	94%
	PHY2049	SP	Full term	30	100%	21	67%	44	86%
		SU	Full term	22	91%				
			Total	52	96%	21	67%	44	86%
	PHY2049L	SP	Full term	30	100%	21	67%	44	86%
		SU	Full term	22	91%				
			Total	52	96%	21	67%	44	86%
	PSC1121	FA	A term	67	85%	70	87%	86	87%
			B term	80	80%	63	90%	65	92%
			Full term	186	80%	178	79%	211	90%
			Session Total	333	81%	311	83%	362	90%
		SP	A term	110	89%	84	79%	95	91%
			B term	109	80%	88	83%	97	84%
			Full term	189	81%	214	84%	152	91%
			Session Total	408	83%	386	83%	344	89%
		SU	Full term	104	89%	47	96%	86	93%
			Total	845	83%	744	84%	792	90%

Years are reporting years, SU-SP. Indicates a 70% success rate or higher
Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

BSC1010 - Course Learning Outcomes 2014/2015

SLO 1: Describe the basic chemical molecules of life. *(1, 2, 4)*

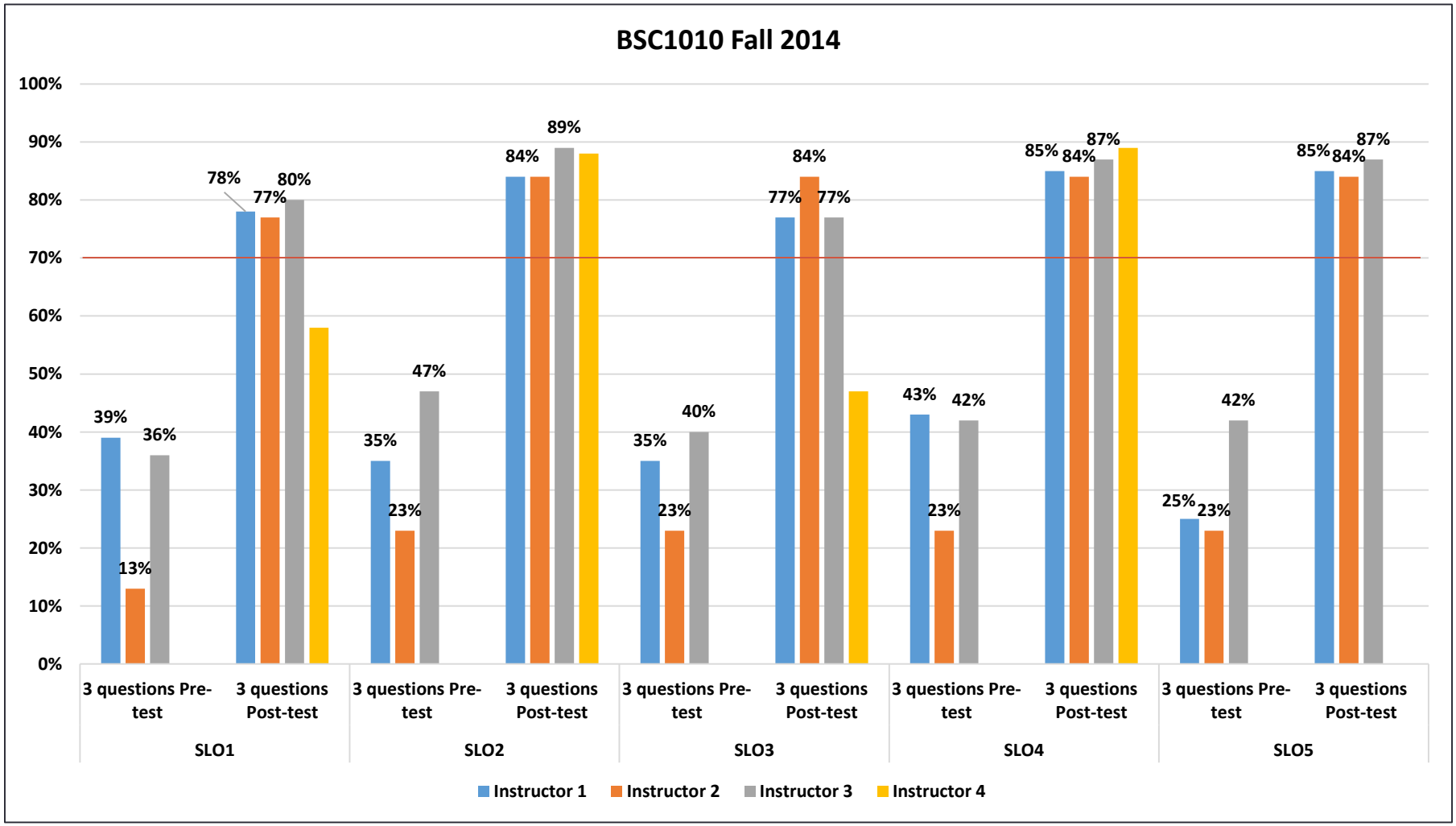
SLO 2: Distinguish between the different types of cells and identify basic cellular structures and their functions. *(1)*

SLO 3: Describe energy and ATP production during the process of cellular respiration and the conversion of light energy into the chemical bonds of sugar during photosynthesis. *(1)*

SLO 4: Describe the structure of DNA, its replication and protein synthesis. *(1)*

SLO 5: Use the principles of Mendelian Genetics to solve problems. *(1)*

BSC1010 - Course Assessment Results 2014/2015



BSC1086 - Course Learning Outcomes 2014/2015

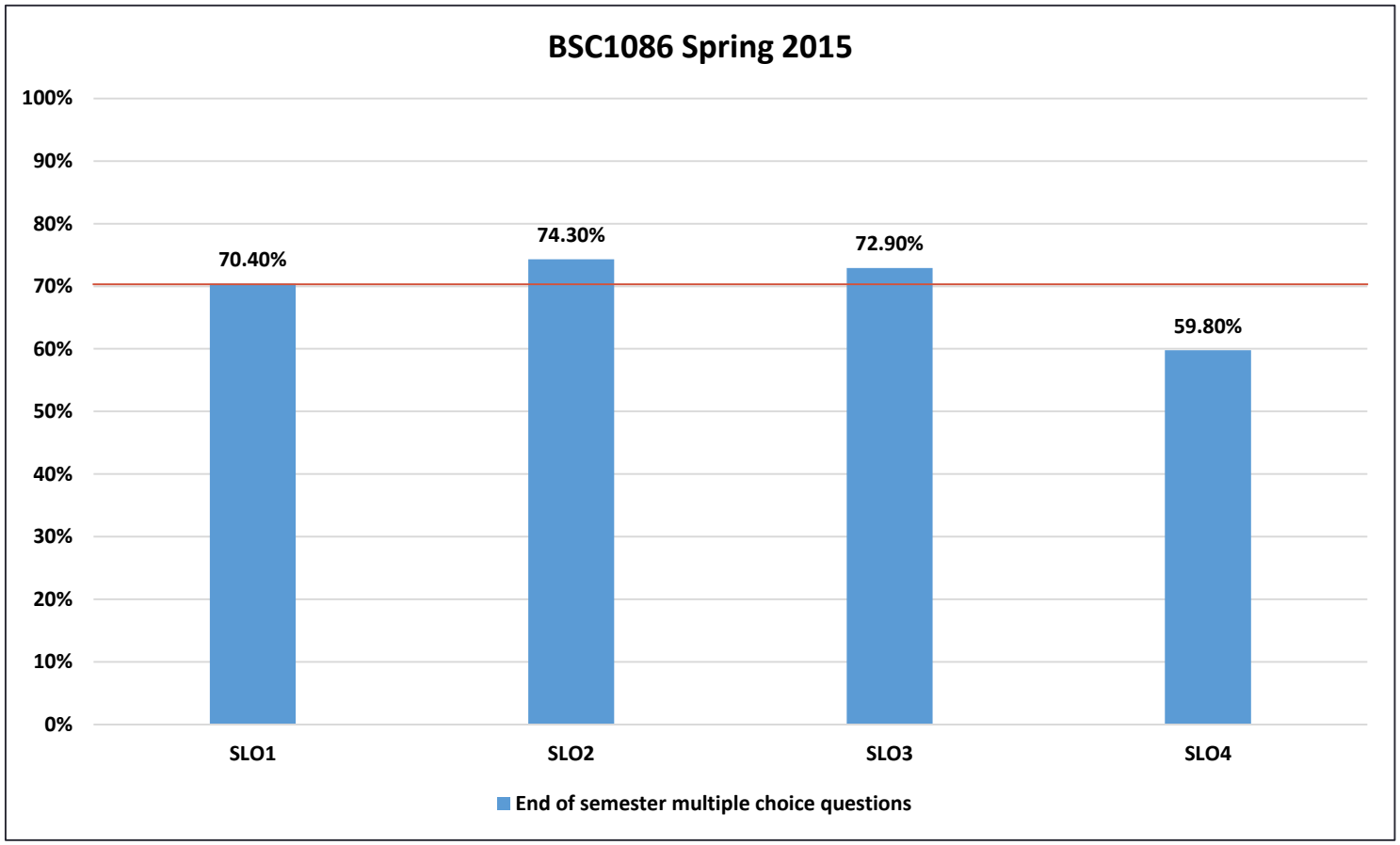
SLO 1: Identify the structures and organs of the ANS, digestive, urinary, circulatory, respiratory, endocrine and reproductive systems.

SLO 2: Explain the physiology of the above seven systems.

SLO 3: Demonstrate the homeostatic mechanisms of each system.

SLO 4: Demonstrate the interrelationships between the systems studied and how they relate to the well-being of the human organism.

BSC1086 - Course Assessment Results 2014/2015



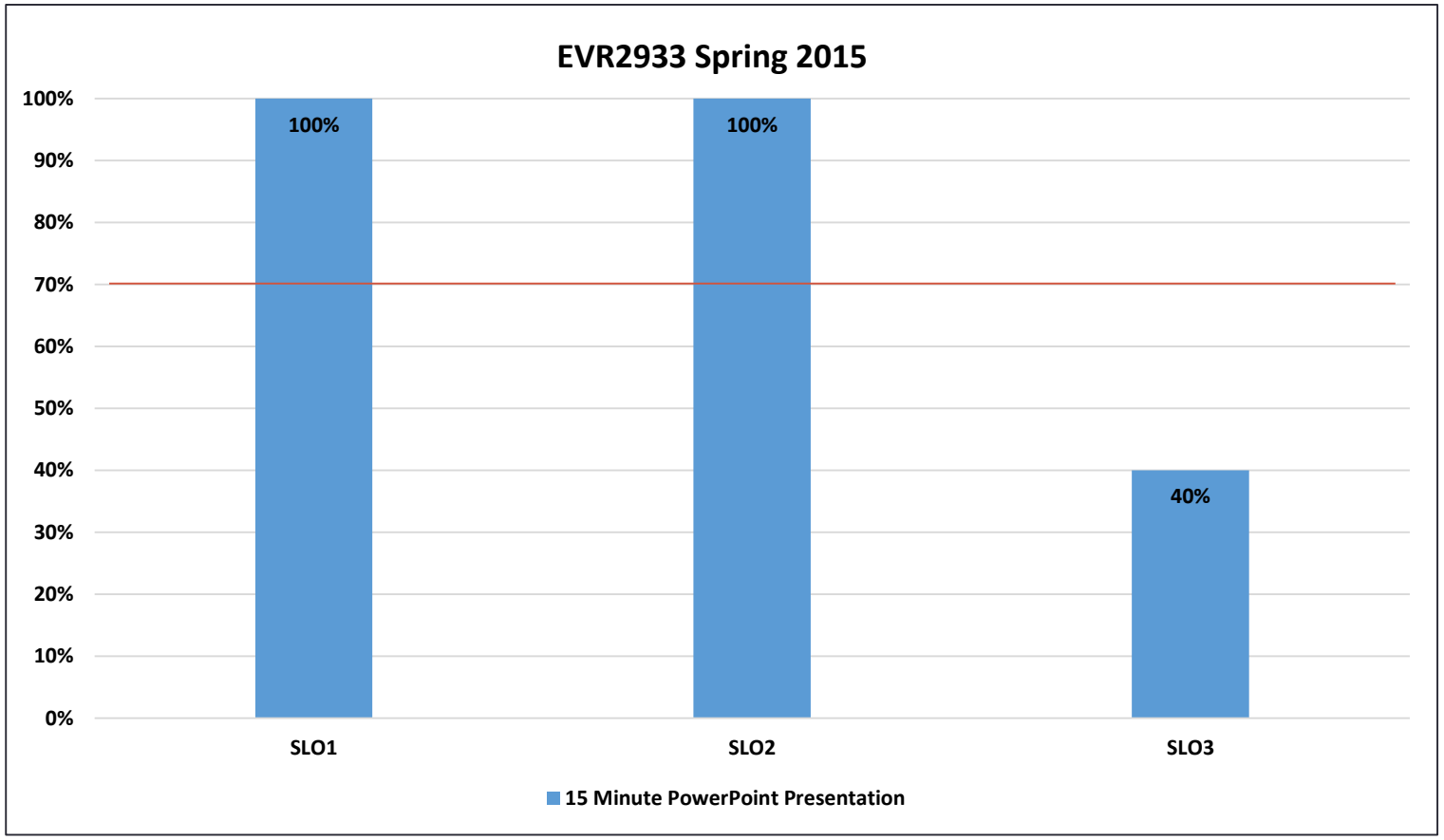
EVR2933 - Course Learning Outcomes 2014/2015

SLO 1: Design an effective oral presentation based on the synthesis of information, experiences and data. *(1,2,3,4)*

SLO 2: Evaluate their internship experience. *(1,2,4)*

SLO 3: Identify individual needs and future goals as it applies to employment opportunities. *(1,2,4)*

EVR2933 - Course Assessment Results 2014/2015



Results were given in letter grade (A, B, C)

EVR2943 - Course Learning Outcomes 2014/2015

SLO 1: Secure information about a job and conduct a job search. *(1, 2, 4)*

SLO 2: Identify documents that may be required when applying for a job and complete a job application. *(1, 2, 4)*

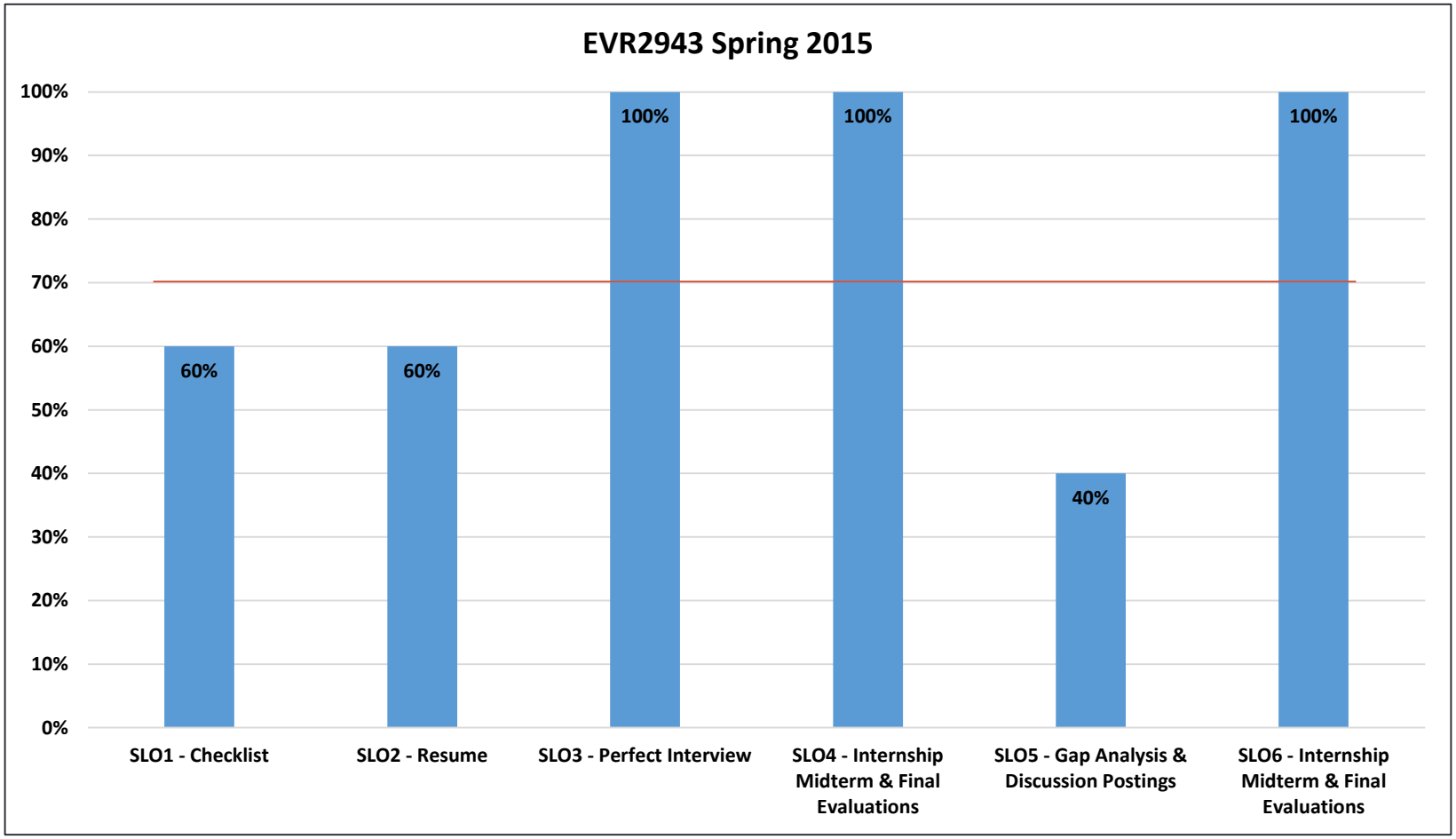
SLO 3: Demonstrate competence in job interview techniques. *(1, 2)*

SLO 4: Identify or demonstrate appropriate responses to criticism and instruction from employer, supervisor, or other persons. *(2, 4)*

SLO5: Identify acceptable work habits. *(1, 2)*

SLO6: Demonstrate the ability to test theory learned in the classroom with an actual working situation and discover the value of work and the rewards of accomplishment. (1, 2, 4)

EVR2943 - Course Assessment Results 2014/2015



GLY2010/L - Course Learning Outcomes 2014/2015

SLO 1: Describe the origin and formation of the earth in relation to the origin of the universe and the solar system.

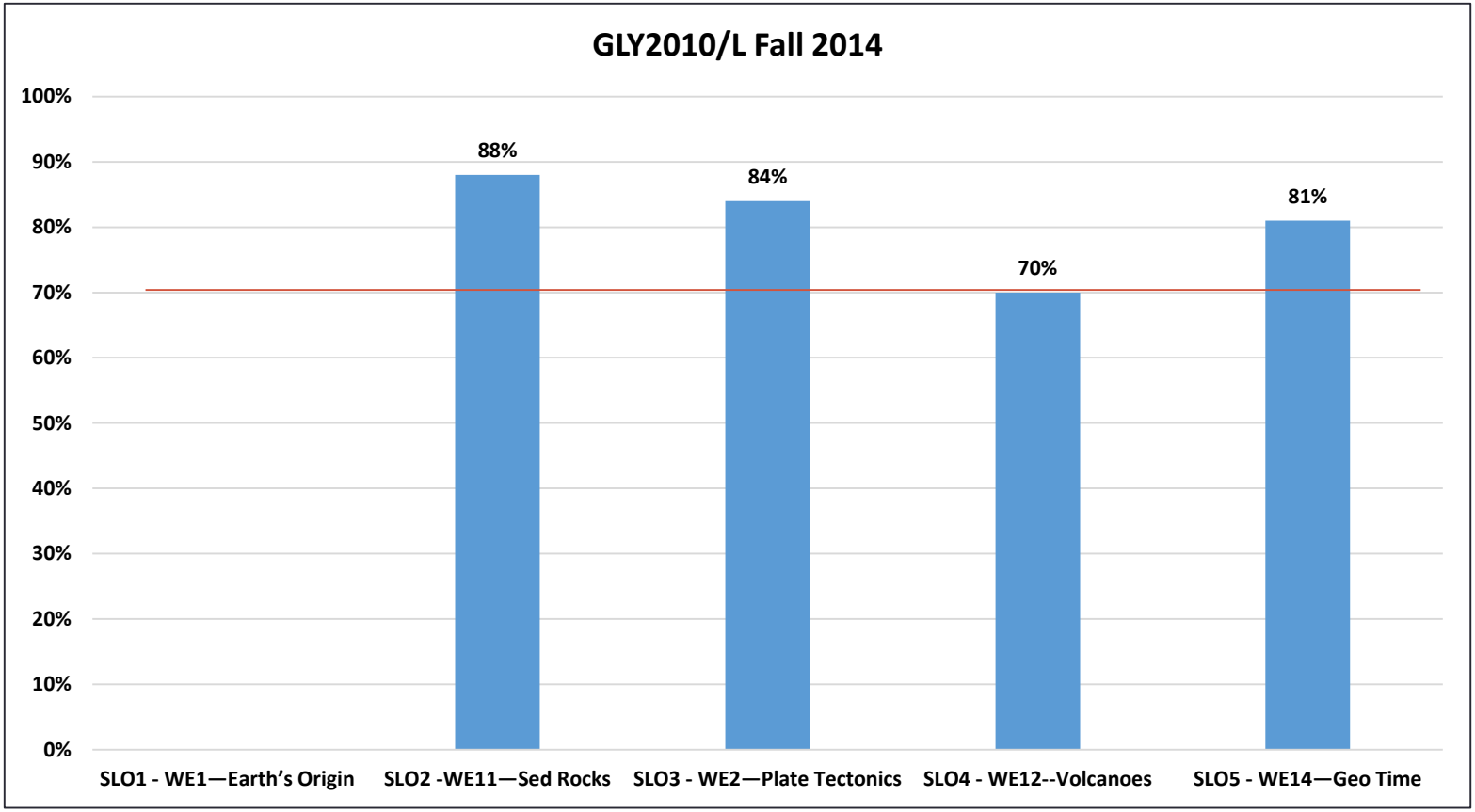
SLO 2: Explain the basic structure of the earth and the nature of solid earth materials.

SLO 3: Describe the physical processes that operate to reshape our dynamic planet.

SLO 4: Explain the concept of geologic time and be familiar with the geologic time scale.

SLO5: Identify the causes of geologic hazards such as earthquakes, volcanic eruptions, landslides ad floods, and how the effects of these hazards can be mitigated.

GLY2010/L - Course Assessment Results 2014/2015



SLO1: This assessment was not made at this time.

MCB1010 - Course Learning Outcomes 2014/2015

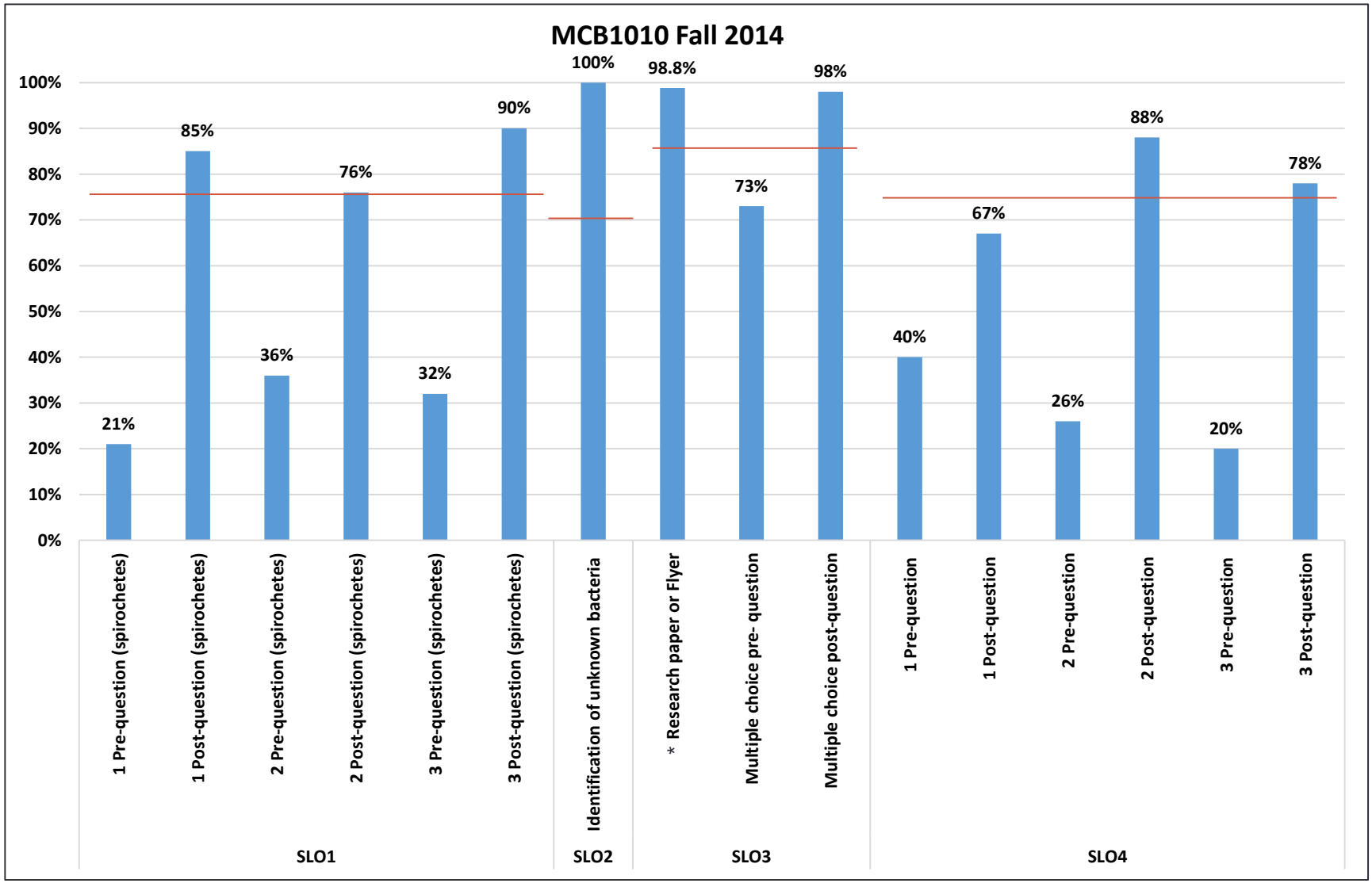
SLO 1: Describe morphological and structural features of bacteria and its function in the organism.

SLO 2: Operate the microscope to observe bacteria stained with various staining procedures.

SLO 3: Describe how infectious agents may be transmitted to a host and how they may cause disease.

SLO 4: Describe the nonspecific and specific immune host responses to an infectious agent.

MCB1010 - Course Assessment Results 2014/2015



** : Average grade*

OCE1001 - Course Learning Outcomes 2014/2015

SLO 1: Identify Earth's oceans ad their major features on a map of the world.

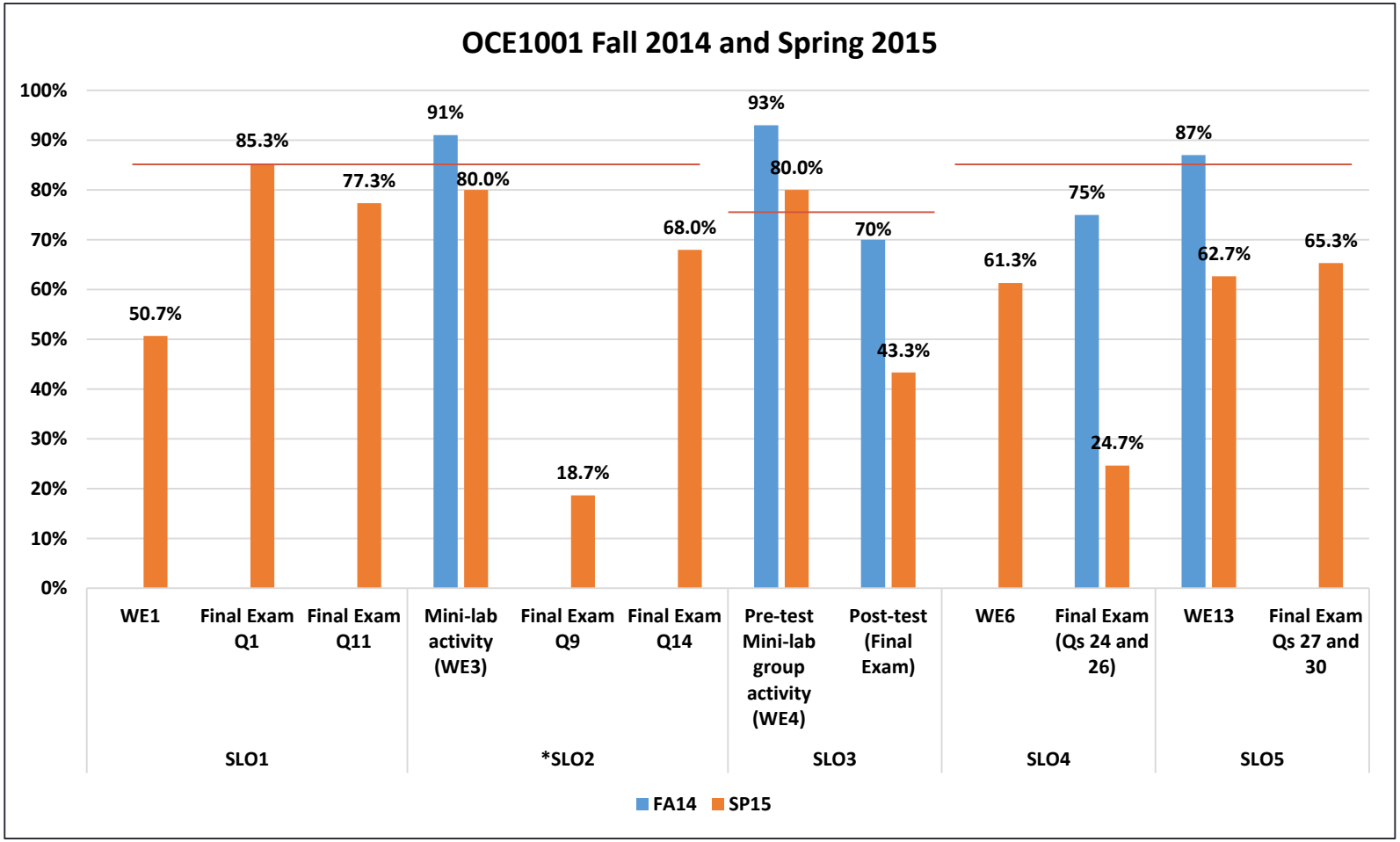
SLO 2: Explain plate tectonics and the features of the sea floor including the sediments, rocks and mineral deposits.

SLO 3: Explain the chemical and physical properties of seawater.

SLO 4: Evaluate the coupling effects of ocean and atmosphere.

SLO5: Distinguish types of ocean currents and the causes and nature of tides and waves.

OCE1001 - Course Assessment Results 2014/2015



SLO1: This assessment was not evaluated in FA14.

**: Average grade*

OCE1001 Lab - Course Learning Outcomes 2014/2015

SLO 1: Correlate and explain the dynamic interconnections between biological, geological, chemical and physical oceanography.

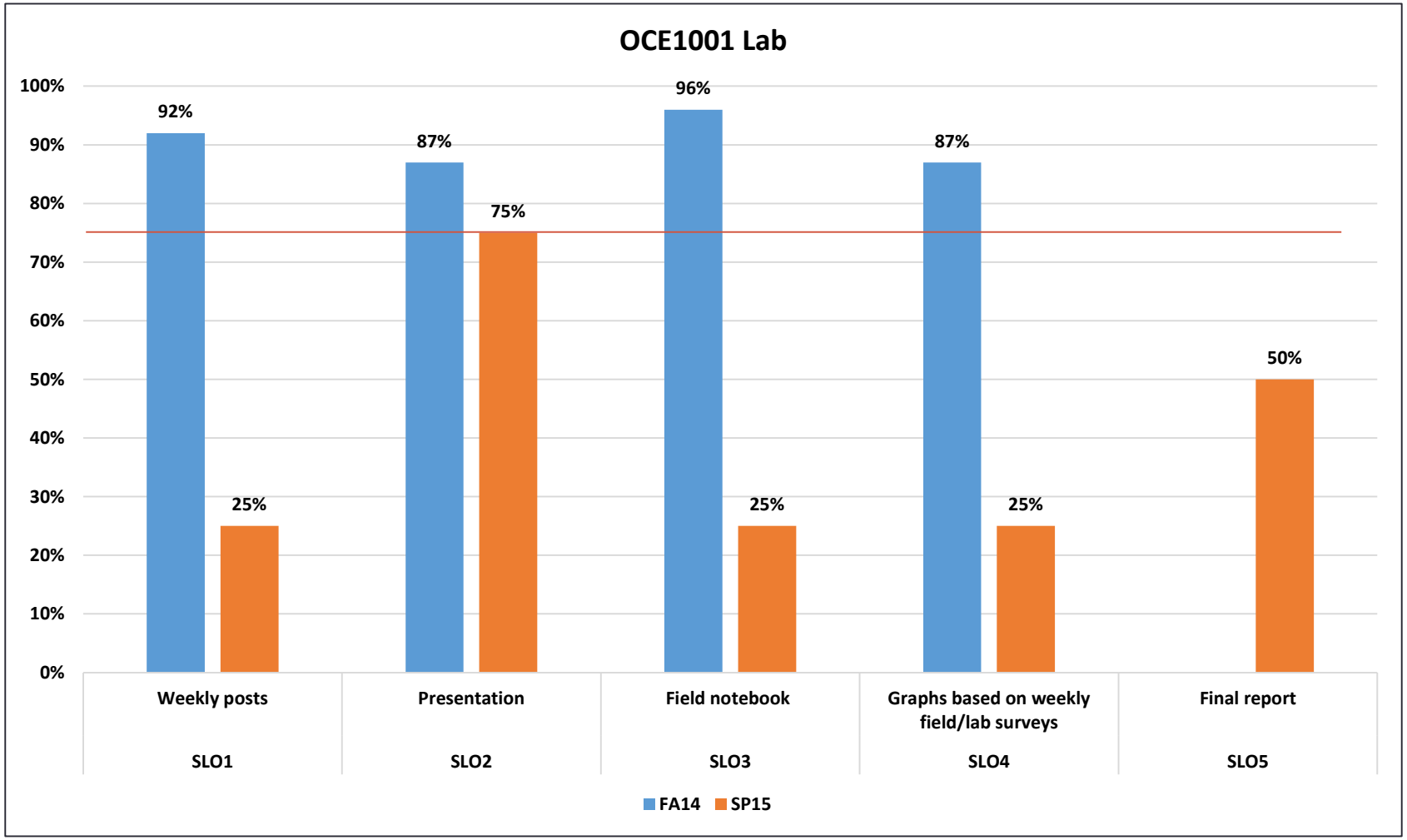
SLO 2: Identify and establish appropriate marine field locations for the purposes of conducting oceanographic field surveys.

SLO 3: Prepare and deploy oceanographic field survey instruments.

SLO 4: Evaluate and interpret oceanographic observations and measurements made during field surveys.

SLO5: Create a report synthesizing the observations and measurements made during a field survey.

OCE1001Lab - Course Assessment Results 2014/2015



OCE2013 Lab - Course Learning Outcomes 2014/2015

SLO 1: Research and evaluate the multi-disciplinary phenomena that occur in the aquatic environment.

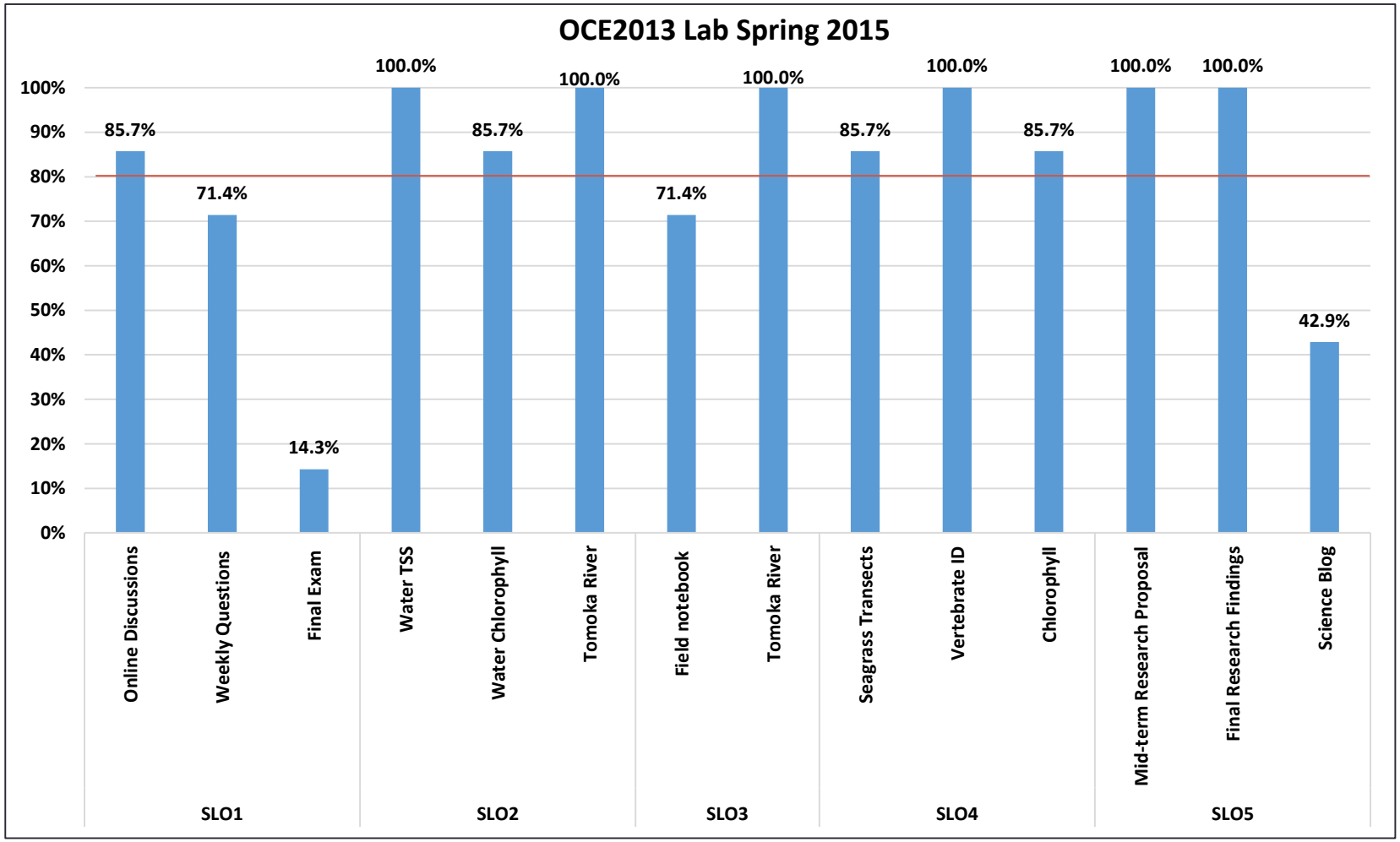
SLO 2: Calibrate and operate field and laboratory equipment for water quality measurements.

SLO 3: Appropriately collect water and sediment samples from various field locations for field and laboratory analysis.

SLO 4: Prepare graphics to suitably support the interpretation of field observations and laboratory analysis.

SLO5: Design and defend an effective presentation of their data.

OCE2013 Lab - Course Assessment Results 2014/2015



PCB3203 - Course Learning Outcomes 2014/2015

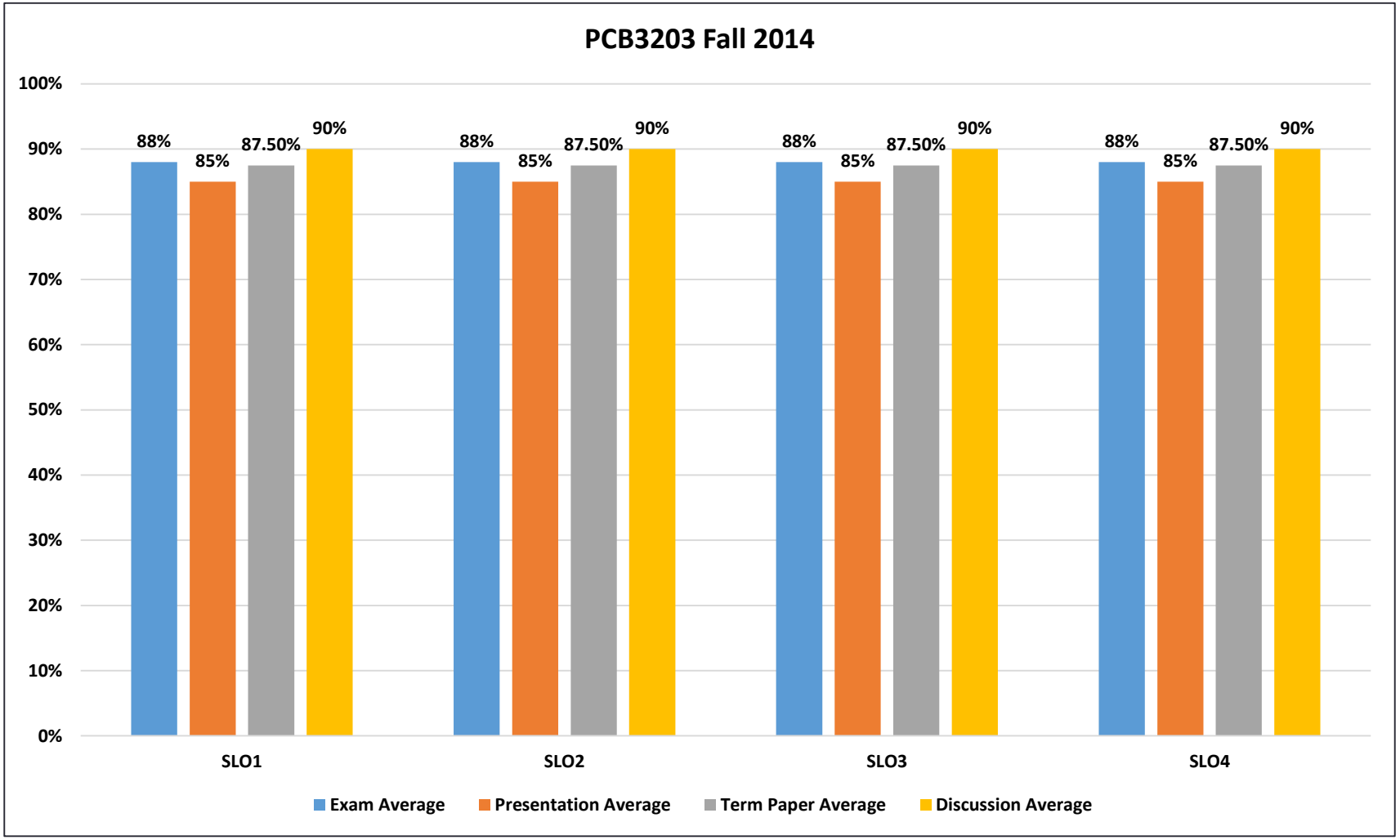
SLO 1: Understand the similarities and differences between prokaryotic and eukaryotic cells.

SLO 2: Compare and contrast the cellular physiology of different kinds of prokaryotic and eukaryotic cells from the molecular to protein level.

SLO 3: Understand the general characteristics of eukaryotic morphology, membrane structure and membrane transport.

SLO 4: Compare and contrast the physiology of plant and animal cell respiration, nutrient uptake, chemical signaling, cellular defense and reproduction.

PCB3203 - Course Assessment Results 2014/2015



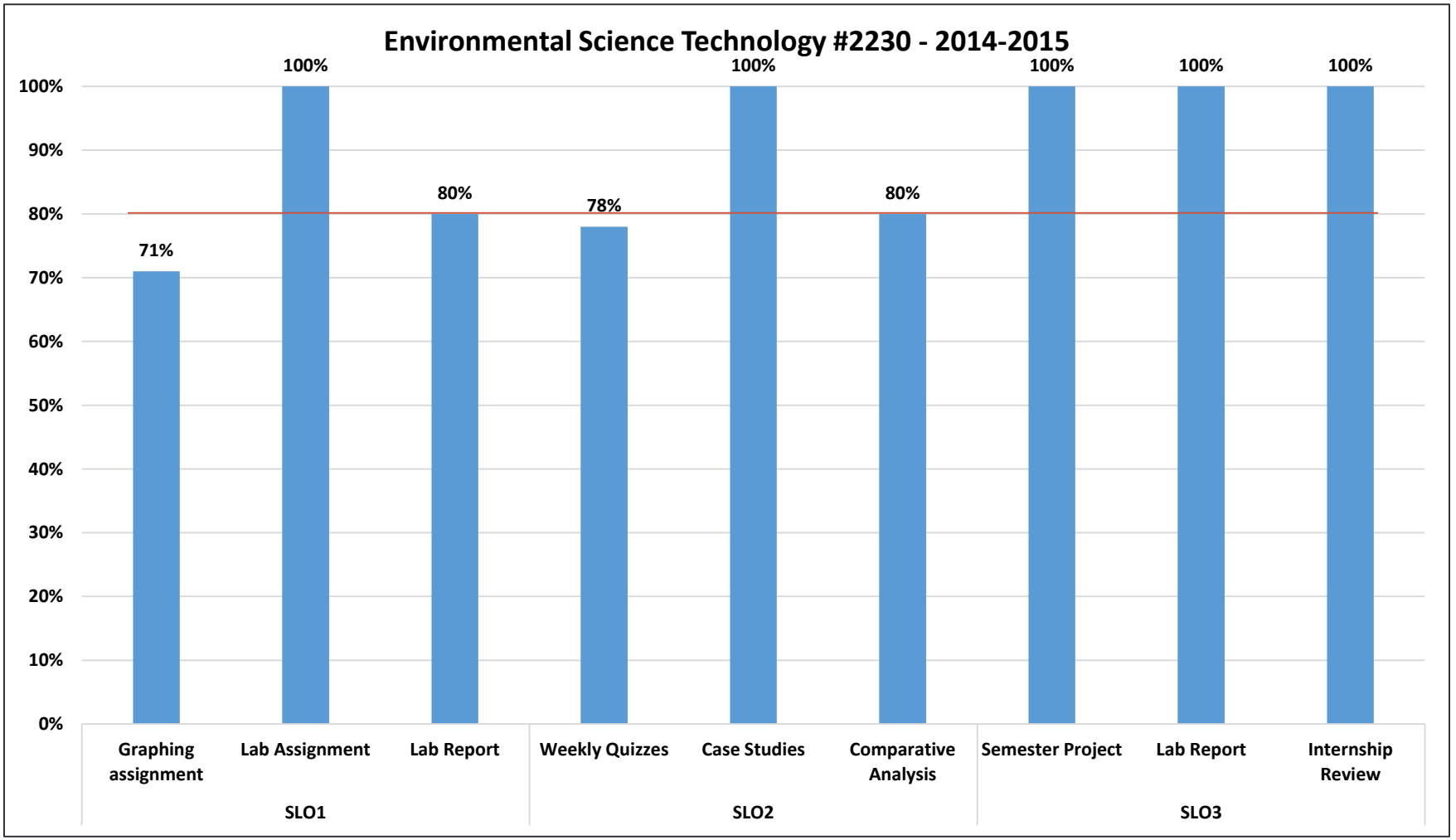
Environmental Science Technology # 2230
Learning Outcomes 2014/2015

SLO 1: Students will be able to identify and explain environmental processes and human - environment interactions. *(1, 2,3,4)*

SLO 2: Students will be able to apply interdisciplinary perspectives and approaches in order to critically analyze and evaluate environmental issues on local and global scales. *(1,2,4)*

SLO 3: Students will be able to monitor, sample and evaluate environmental conditions and design effective presentations of their data. *(1, 2, 4)*

Environmental Science Technology # 2230 Assessment Results 2014/2015



Assessment Data 2013-2014 and 2014-2015: Programs and Institutional Learning Outcomes

Program	Critical/ Creative Thinking		Communication		Cultural Literacy		Information and Technical Literacy	
	2013/14	2014/15	2013/14	2014/15	2013/14	2014/15	2013/14	2014/15
Environmental Science Technology (2230)	100%	71%-100%	100%	71%-100%	100%	100%	100%	71%-100%