

Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)

Total Data by GE SLO

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
Critical Thinking	Spring 2017	123	74	103	300	41.0%	24.7%	34.3%
	Fall 2016	618	613	1,082	2,313	26.7%	26.5%	46.8%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	87	45	102	234	37.2%	19.2%	43.6%
	Spring 2015	240	120	268	628	38.2%	19.1%	42.7%
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%
	Total	1,102	869	1,658	3,629	30.4%	23.9%	45.7%
	Written and Oral Communication	Spring 2017	-	-	-	-	-	-
Fall 2016		407	452	802	1,661	24.5%	27.2%	48.3%
Spring 2016		-	-	-	-	-	-	-
Fall 2015		14	23	41	78	17.9%	29.5%	52.6%
Spring 2015		34	54	123	211	16.1%	25.6%	58.3%
Fall 2014		34	17	103	154	22.1%	11.0%	66.9%
Total		489	546	1,069	2,104	23.2%	26.0%	50.8%
Quantitative Reasoning		Spring 2017	123	74	103	300	41.0%	24.7%
	Fall 2016	607	611	1,078	2,296	26.4%	26.6%	47.0%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	87	45	102	234	37.2%	19.2%	43.6%
	Spring 2015	240	120	268	628	38.2%	19.1%	42.7%
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%
	Total	1,091	867	1,654	3,612	30.2%	24.0%	45.8%
	Breadth of Knowledge	Spring 2017	123	74	103	300	41.0%	24.7%
Fall 2016		618	613	1,082	2,313	26.7%	26.5%	46.8%
Spring 2016		-	-	-	-	-	-	-
Fall 2015		87	45	102	234	37.2%	19.2%	43.6%
Spring 2015		240	120	268	628	38.2%	19.1%	42.7%
Fall 2014		34	17	103	154	22.1%	11.0%	66.9%
Total		1,102	869	1,658	3,629	30.4%	23.9%	45.7%
Report Totals		Spring 2017	369	222	309	900	41.0%	24.7%
	Fall 2016	2,250	2,289	4,044	8,583	26.2%	26.7%	47.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	275	158	347	780	35.3%	20.3%	44.5%
	Spring 2015	754	414	927	2,095	36.0%	19.8%	44.2%
	Fall 2014	136	68	412	616	22.1%	11.0%	66.9%
	Total	3,784	3,151	6,039	12,974	29.2%	24.3%	46.5%

**Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)**

Critical Thinking

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
ASTR 102	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	67	186	401	654	10.2%	28.4%	61.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	14	23	41	78	17.9%	29.5%	52.6%
	Spring 2015	34	54	123	211	16.1%	25.6%	58.3%
	Fall 2014	-	-	-	-	-	-	-
	Total	115	263	565	943	12.2%	27.9%	59.9%
	ASTR 103	Spring 2017	-	-	-	-	-	-
Fall 2016		207	184	335	726	28.5%	25.3%	46.1%
Spring 2016		-	-	-	-	-	-	-
Fall 2015		-	-	-	-	-	-	-
Spring 2015		-	-	-	-	-	-	-
Fall 2014		34	17	103	154	22.1%	11.0%	66.9%
Total		241	201	438	880	27.4%	22.8%	49.8%
ASTR 104		Spring 2017	-	-	-	-	-	-
	Fall 2016	25	19	46	90	27.8%	21.1%	51.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total	25	19	46	90	27.8%	21.1%	51.1%
	ASTR 105L	Spring 2017	-	-	-	-	-	-
Fall 2016		37	13	9	59	62.7%	22.0%	15.3%
Spring 2016		-	-	-	-	-	-	-
Fall 2015		-	-	-	-	-	-	-
Spring 2015		-	-	-	-	-	-	-
Fall 2014		-	-	-	-	-	-	-
Total		37	13	9	59	62.7%	22.0%	15.3%
ASTR 106		Spring 2017	-	-	-	-	-	-
	Fall 2016	11	2	4	17	64.7%	11.8%	23.5%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total	11	2	4	17	64.7%	11.8%	23.5%

**Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)**

Critical Thinking

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
PHYS 100	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	122	80	62	264	46.2%	30.3%	23.5%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		122	80	62	264	46.2%	30.3%
PHYS 101	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	43	38	17	98	43.9%	38.8%	17.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		43	38	17	98	43.9%	38.8%
PHYS 201	Spring 2017	20	30	58	108	18.5%	27.8%	53.7%
	Fall 2016	84	45	103	232	36.2%	19.4%	44.4%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	57	19	55	131	43.5%	14.5%	42.0%
	Spring 2015	63	27	79	169	37.3%	16.0%	46.7%
	Fall 2014	-	-	-	-	-	-	-
	Total		224	121	295	640	35.0%	18.9%
PHYS 202	Spring 2017	56	19	17	92	60.9%	20.7%	18.5%
	Fall 2016	5	16	47	68	7.4%	23.5%	69.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	16	3	6	25	64.0%	12.0%	24.0%
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		77	38	70	185	41.6%	20.5%
PHYS 203	Spring 2017	47	25	28	100	47.0%	25.0%	28.0%
	Fall 2016	17	30	58	105	16.2%	28.6%	55.2%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	143	39	66	248	57.7%	15.7%	26.6%
	Fall 2014	-	-	-	-	-	-	-
	Total		207	94	152	453	45.7%	20.8%

Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)

Critical Thinking

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
Report Totals	Spring 2017	123	74	103	300	41.0%	24.7%	34.3%
	Fall 2016	618	613	1,082	2,313	26.7%	26.5%	46.8%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	87	45	102	234	37.2%	19.2%	43.6%
	Spring 2015	240	120	268	628	38.2%	19.1%	42.7%
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%
	Total	1,102	869	1,658	3,629	30.4%	23.9%	45.7%

**Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)**

Written & Oral Communication

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
ASTR 102	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	67	186	401	654	10.2%	28.4%	61.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	14	23	41	78	17.9%	29.5%	52.6%
	Spring 2015	34	54	123	211	16.1%	25.6%	58.3%
	Fall 2014	-	-	-	-	-	-	-
	Total		115	263	565	943	12.2%	27.9%
ASTR 103	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	207	184	335	726	28.5%	25.3%	46.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%
	Total		241	201	438	880	27.4%	22.8%
ASTR 106	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	11	2	4	17	64.7%	11.8%	23.5%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		11	2	4	17	64.7%	11.8%
PHYS 100	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	122	80	62	264	46.2%	30.3%	23.5%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		122	80	62	264	46.2%	30.3%
Report Totals	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	407	452	802	1,661	24.5%	27.2%	48.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	14	23	41	78	17.9%	29.5%	52.6%
	Spring 2015	34	54	123	211	16.1%	25.6%	58.3%
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%
	Total		489	546	1,069	2,104	23.2%	26.0%

**Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)**

Quantitative Reasoning

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
ASTR 102	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	67	186	401	654	10.2%	28.4%	61.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	14	23	41	78	17.9%	29.5%	52.6%
	Spring 2015	34	54	123	211	16.1%	25.6%	58.3%
	Fall 2014	-	-	-	-	-	-	-
	Total		115	263	565	943	12.2%	27.9%
ASTR 103	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	207	184	335	726	28.5%	25.3%	46.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%
	Total		241	201	438	880	27.4%	22.8%
ASTR 104	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	25	19	46	90	27.8%	21.1%	51.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		25	19	46	90	27.8%	21.1%
ASTR 105L	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	37	13	9	59	62.7%	22.0%	15.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		37	13	9	59	62.7%	22.0%
PHYS 100	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	122	80	62	264	46.2%	30.3%	23.5%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		122	80	62	264	46.2%	30.3%

Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)

Quantitative Reasoning

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages			
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent	
PHYS 101	Spring 2017	-	-	-	-	-	-	-	
	Fall 2016	43	38	17	98	43.9%	38.8%	17.3%	
	Spring 2016	-	-	-	-	-	-	-	
	Fall 2015	-	-	-	-	-	-	-	
	Spring 2015	-	-	-	-	-	-	-	
	Fall 2014	-	-	-	-	-	-	-	
	Total		43	38	17	98	43.9%	38.8%	17.3%
	PHYS 201	Spring 2017	20	30	58	108	18.5%	27.8%	53.7%
Fall 2016		84	45	103	232	36.2%	19.4%	44.4%	
Spring 2016		-	-	-	-	-	-	-	
Fall 2015		57	19	55	131	43.5%	14.5%	42.0%	
Spring 2015		63	27	79	169	37.3%	16.0%	46.7%	
Fall 2014		-	-	-	-	-	-	-	
Total			224	121	295	640	35.0%	18.9%	46.1%
PHYS 202		Spring 2017	56	19	17	92	60.9%	20.7%	18.5%
	Fall 2016	5	16	47	68	7.4%	23.5%	69.1%	
	Spring 2016	-	-	-	-	-	-	-	
	Fall 2015	16	3	6	25	64.0%	12.0%	24.0%	
	Spring 2015	-	-	-	-	-	-	-	
	Fall 2014	-	-	-	-	-	-	-	
	Total		77	38	70	185	41.6%	20.5%	37.8%
	PHYS 203	Spring 2017	47	25	28	100	47.0%	25.0%	28.0%
Fall 2016		17	30	58	105	16.2%	28.6%	55.2%	
Spring 2016		-	-	-	-	-	-	-	
Fall 2015		-	-	-	-	-	-	-	
Spring 2015		143	39	66	248	57.7%	15.7%	26.6%	
Fall 2014		-	-	-	-	-	-	-	
Total			207	94	152	453	45.7%	20.8%	33.6%
Report Totals		Spring 2017	123	74	103	300	41.0%	24.7%	34.3%
	Fall 2016	607	611	1,078	2,296	26.4%	26.6%	47.0%	
	Spring 2016	-	-	-	-	-	-	-	
	Fall 2015	87	45	102	234	37.2%	19.2%	43.6%	
	Spring 2015	240	120	268	628	38.2%	19.1%	42.7%	
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%	
	Total		1,091	867	1,654	3,612	30.2%	24.0%	45.8%

**Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)**

Breadth of Knowledge

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
ASTR 102	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	67	186	401	654	10.2%	28.4%	61.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	14	23	41	78	17.9%	29.5%	52.6%
	Spring 2015	34	54	123	211	16.1%	25.6%	58.3%
	Fall 2014	-	-	-	-	-	-	-
	Total		115	263	565	943	12.2%	27.9%
ASTR 103	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	207	184	335	726	28.5%	25.3%	46.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%
	Total		241	201	438	880	27.4%	22.8%
ASTR 104	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	25	19	46	90	27.8%	21.1%	51.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		25	19	46	90	27.8%	21.1%
ASTR 105L	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	37	13	9	59	62.7%	22.0%	15.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		37	13	9	59	62.7%	22.0%
ASTR 106	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	11	2	4	17	64.7%	11.8%	23.5%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		11	2	4	17	64.7%	11.8%

**Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)**

Breadth of Knowledge

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
PHYS 100	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	122	80	62	264	46.2%	30.3%	23.5%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		122	80	62	264	46.2%	30.3%
PHYS 101	Spring 2017	-	-	-	-	-	-	-
	Fall 2016	43	38	17	98	43.9%	38.8%	17.3%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		43	38	17	98	43.9%	38.8%
PHYS 201	Spring 2017	20	30	58	108	18.5%	27.8%	53.7%
	Fall 2016	84	45	103	232	36.2%	19.4%	44.4%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	57	19	55	131	43.5%	14.5%	42.0%
	Spring 2015	63	27	79	169	37.3%	16.0%	46.7%
	Fall 2014	-	-	-	-	-	-	-
	Total		224	121	295	640	35.0%	18.9%
PHYS 202	Spring 2017	56	19	17	92	60.9%	20.7%	18.5%
	Fall 2016	5	16	47	68	7.4%	23.5%	69.1%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	16	3	6	25	64.0%	12.0%	24.0%
	Spring 2015	-	-	-	-	-	-	-
	Fall 2014	-	-	-	-	-	-	-
	Total		77	38	70	185	41.6%	20.5%
PHYS 203	Spring 2017	47	25	28	100	47.0%	25.0%	28.0%
	Fall 2016	17	30	58	105	16.2%	28.6%	55.2%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	-	-	-	-	-	-	-
	Spring 2015	143	39	66	248	57.7%	15.7%	26.6%
	Fall 2014	-	-	-	-	-	-	-
	Total		207	94	152	453	45.7%	20.8%

**Cerritos College SLO Committee - Institutional SLO Assessment Results - Three Year Comparison
(Fall 2014 to Spring 2017)**

Breadth of Knowledge

Physics, Astronomy & Engineering Department	Semester	Number of Assessments				Percentages		
		Good	Satis.	Emergent	Total	Good	Satis.	Emergent
Report Totals	Spring 2017	123	74	103	300	41.0%	24.7%	34.3%
	Fall 2016	618	613	1,082	2,313	26.7%	26.5%	46.8%
	Spring 2016	-	-	-	-	-	-	-
	Fall 2015	87	45	102	234	37.2%	19.2%	43.6%
	Spring 2015	240	120	268	628	38.2%	19.1%	42.7%
	Fall 2014	34	17	103	154	22.1%	11.0%	66.9%
	Total	1,102	869	1,658	3,629	30.4%	23.9%	45.7%