



# Productivity 2012/13 through 2016/17 Astronomy (ASTR)

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## Productivity by Year

	<b>Census Headcount</b>	<b>End of Term Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Max Enroll</b>	<b>Fill Rates</b>
2012/13	402	352	2.20	41.50	1,245	566	12	500	80.4%
2013/14	373	298	2.20	38.23	1,147	521	12	520	71.7%
2014/15	452	359	2.72	44.84	1,345	495	16	588	76.9%
2015/16	460	371	2.72	46.22	1,387	510	17	599	76.8%
2016/17	487	399	2.84	48.89	1,467	516	17	588	82.9%

Census Headcount: Number of duplicated headcount at final census. End of Term Headcount: Number of duplicated headcount at the end of the term.  
 FTEF: Total number of full time equivalent faculty assigned. FTES: Total number of full time equivalent students enrolled at first census.  
 WSCH: Weekly student contact hours generated by census enrollments. Load: The ratio of WSCH to FTEF, used to measure productivity.  
 Sections: Total number of sections offered per semester. Max Enroll: The enrollment capacity or maximum enrollment as defined in curriculum.  
 Fill Rate: Census Headcount divided by Max Enrollment.

Data Source: SMCCD Data Warehouse

Cañada College Productivity 2016-17

**Productivity by Semester**

	<b>Census Headcount</b>	<b>End of Term Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Max Enroll</b>	<b>Fill Rates</b>
Fall 2012	174	153	0.92	18.20	546	593	5	210	82.9%
Fall 2013	103	88	0.56	10.64	319	570	3	130	79.2%
Fall 2014	167	131	1.08	15.43	463	429	6	240	69.6%
Fall 2015	140	122	0.72	14.00	420	583	5	165	84.8%
Fall 2016	164	140	0.88	16.57	497	565	6	190	86.3%
Spring 2013	185	157	0.92	18.78	563	612	5	210	88.1%
Spring 2014	157	113	1.08	16.26	488	452	6	245	64.1%
Spring 2015	145	115	0.92	15.09	453	492	6	183	79.5%
Spring 2016	188	151	1.08	18.80	564	522	8	234	80.3%
Spring 2017	170	145	1.08	17.00	510	472	7	203	84.0%
Summer 2012	43	42	0.36	4.52	136	377	2	80	53.8%
Summer 2013	113	97	0.56	11.34	340	607	3	145	77.9%
Summer 2014	140	113	0.72	14.32	429	596	4	165	84.8%
Summer 2015	132	98	0.92	13.42	403	438	4	200	66.0%
Summer 2016	153	114	0.88	15.32	460	522	4	195	78.5%

Cañada College Productivity 2016-17

**DE vs Non DE Courses**

		<b>Census Headcount</b>	<b>End of Term Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Max Enroll</b>	<b>Fill Rates</b>
Fall 2012	FaceToFace	114	106	0.56	12.10	363	648	3	130	87.7%
	Online	60	47	0.36	6.10	183	508	2	80	75.0%
Fall 2013	FaceToFace	69	59	0.40	6.90	207	518	2	100	69.0%
	Online	34	29	0.16	3.74	112	701	1	30	113.3%
Fall 2014	FaceToFace	95	78	0.72	10.03	301	418	4	160	59.4%
	Online	72	53	0.36	5.40	162	450	2	80	90.0%
Fall 2015	FaceToFace	78	73	0.36	7.80	234	650	3	80	97.5%
	Online	62	49	0.36	6.20	186	517	2	85	72.9%
Fall 2016	FaceToFace	102	90	0.52	10.28	308	593	4	110	92.7%
	Online	62	50	0.36	6.29	189	524	2	80	77.5%
Spring 2013	FaceToFace	131	113	0.56	13.10	393	702	3	130	100.8%
	Online	54	44	0.36	5.68	170	473	2	80	67.5%
Spring 2014	FaceToFace	85	55	0.72	8.95	269	373	4	160	53.1%
	Online	72	58	0.36	7.30	219	609	2	85	84.7%
Spring 2015	FaceToFace	78	64	0.56	8.29	249	444	4	98	80.0%
	Online	67	51	0.36	6.80	204	567	2	85	78.8%
Spring 2016	FaceToFace	103	81	0.56	10.30	309	552	5	120	85.8%
	Online	85	70	0.52	8.50	255	490	3	114	74.6%
Spring 2017	FaceToFace	87	78	0.56	8.70	261	466	4	98	89.2%
	Online	83	67	0.52	8.30	249	479	3	105	79.0%
Summer 2012	FaceToFace	43	42	0.36	4.52	136	377	2	80	53.8%
Summer 2013	FaceToFace	66	60	0.36	6.64	199	553	2	80	82.5%
	Online	47	37	0.20	4.70	141	705	1	65	72.3%
Summer 2014	FaceToFace	57	49	0.36	5.73	172	478	2	80	71.3%
	Online	83	64	0.36	8.58	257	715	2	85	97.6%
Summer 2015	FaceToFace	42	39	0.36	4.32	130	360	2	80	52.5%
	Online	90	59	0.56	9.10	273	488	2	120	75.0%
Summer 2016	FaceToFace	53	52	0.36	5.17	155	431	2	80	66.3%
	Online	100	62	0.52	10.15	305	586	2	115	87.0%

Cañada College Productivity 2016-17

**Basic Skills vs Non Basic Skills Courses**

		<b>Census Headcount</b>	<b>End of Term Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Max Enroll</b>	<b>Fill Rates</b>
Fall 2012	Non Basic Skills	174	153	0.92	18.20	546	593	5	210	82.9%
	Total	174	153	0.92	18.20	546	593	5	210	82.9%
Fall 2013	Non Basic Skills	103	88	0.56	10.64	319	570	3	130	79.2%
	Total	103	88	0.56	10.64	319	570	3	130	79.2%
Fall 2014	Non Basic Skills	167	131	1.08	15.43	463	429	6	240	69.6%
	Total	167	131	1.08	15.43	463	429	6	240	69.6%
Fall 2015	Non Basic Skills	140	122	0.72	14.00	420	583	5	165	84.8%
	Total	140	122	0.72	14.00	420	583	5	165	84.8%
Fall 2016	Non Basic Skills	164	140	0.88	16.57	497	565	6	190	86.3%
	Total	164	140	0.88	16.57	497	565	6	190	86.3%
Spring 2013	Non Basic Skills	185	157	0.92	18.78	563	612	5	210	88.1%
	Total	185	157	0.92	18.78	563	612	5	210	88.1%
Spring 2014	Non Basic Skills	157	113	1.08	16.26	488	452	6	245	64.1%
	Total	157	113	1.08	16.26	488	452	6	245	64.1%
Spring 2015	Non Basic Skills	145	115	0.92	15.09	453	492	6	183	79.5%
	Total	145	115	0.92	15.09	453	492	6	183	79.5%
Spring 2016	Non Basic Skills	188	151	1.08	18.80	564	522	8	234	80.3%
	Total	188	151	1.08	18.80	564	522	8	234	80.3%
Spring 2017	Non Basic Skills	170	145	1.08	17.00	510	472	7	203	84.0%
	Total	170	145	1.08	17.00	510	472	7	203	84.0%
Summer 2012	Non Basic Skills	43	42	0.36	4.52	136	377	2	80	53.8%
	Total	43	42	0.36	4.52	136	377	2	80	53.8%
Summer 2013	Non Basic Skills	113	97	0.56	11.34	340	607	3	145	77.9%
	Total	113	97	0.56	11.34	340	607	3	145	77.9%
Summer 2014	Non Basic Skills	140	113	0.72	14.32	429	596	4	165	84.8%
	Total	140	113	0.72	14.32	429	596	4	165	84.8%
Summer 2015	Non Basic Skills	132	98	0.92	13.42	403	438	4	200	66.0%
	Total	132	98	0.92	13.42	403	438	4	200	66.0%
Summer 2016	Non Basic Skills	153	114	0.88	15.32	460	522	4	195	78.5%
	Total	153	114	0.88	15.32	460	522	4	195	78.5%

Cañada College Productivity 2016-17

**CTE vs NonCTE Courses**

		<b>Census Headcount</b>	<b>End of Term Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Max Enroll</b>	<b>Fill Rates</b>
Fall 2012	Non CTE	174	153	0.92	18.20	546	593	5	210	82.9%
	Total	174	153	0.92	18.20	546	593	5	210	82.9%
Fall 2013	Non CTE	103	88	0.56	10.64	319	570	3	130	79.2%
	Total	103	88	0.56	10.64	319	570	3	130	79.2%
Fall 2014	Non CTE	167	131	1.08	15.43	463	429	6	240	69.6%
	Total	167	131	1.08	15.43	463	429	6	240	69.6%
Fall 2015	Non CTE	140	122	0.72	14.00	420	583	5	165	84.8%
	Total	140	122	0.72	14.00	420	583	5	165	84.8%
Fall 2016	Non CTE	164	140	0.88	16.57	497	565	6	190	86.3%
	Total	164	140	0.88	16.57	497	565	6	190	86.3%
Spring 2013	Non CTE	185	157	0.92	18.78	563	612	5	210	88.1%
	Total	185	157	0.92	18.78	563	612	5	210	88.1%
Spring 2014	Non CTE	157	113	1.08	16.26	488	452	6	245	64.1%
	Total	157	113	1.08	16.26	488	452	6	245	64.1%
Spring 2015	Non CTE	145	115	0.92	15.09	453	492	6	183	79.5%
	Total	145	115	0.92	15.09	453	492	6	183	79.5%
Spring 2016	Non CTE	188	151	1.08	18.80	564	522	8	234	80.3%
	Total	188	151	1.08	18.80	564	522	8	234	80.3%
Spring 2017	Non CTE	170	145	1.08	17.00	510	472	7	203	84.0%
	Total	170	145	1.08	17.00	510	472	7	203	84.0%
Summer 2012	Non CTE	43	42	0.36	4.52	136	377	2	80	53.8%
	Total	43	42	0.36	4.52	136	377	2	80	53.8%
Summer 2013	Non CTE	113	97	0.56	11.34	340	607	3	145	77.9%
	Total	113	97	0.56	11.34	340	607	3	145	77.9%
Summer 2014	Non CTE	140	113	0.72	14.32	429	596	4	165	84.8%
	Total	140	113	0.72	14.32	429	596	4	165	84.8%
Summer 2015	Non CTE	132	98	0.92	13.42	403	438	4	200	66.0%
	Total	132	98	0.92	13.42	403	438	4	200	66.0%

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**CTE vs NonCTE Courses**

	<b>Census Headcount</b>	<b>End of Term Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Max Enroll</b>	<b>Fill Rates</b>
Summer 2016 Non CTE	153	114	0.88	15.32	460	522	4	195	78.5%
Total	153	114	0.88	15.32	460	522	4	195	78.5%

**Transfer vs Non Transfer Courses**

	<b>Census Headcount</b>	<b>End of Term Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Max Enroll</b>	<b>Fill Rates</b>
Fall 2012 Yes	174	153	0.92	18.20	546	593	5	210	82.9%
Total	174	153	0.92	18.20	546	593	5	210	82.9%
Fall 2013 Yes	103	88	0.56	10.64	319	570	3	130	79.2%
Total	103	88	0.56	10.64	319	570	3	130	79.2%
Fall 2014 Yes	167	131	1.08	15.43	463	429	6	240	69.6%
Total	167	131	1.08	15.43	463	429	6	240	69.6%
Fall 2015 Yes	140	122	0.72	14.00	420	583	5	165	84.8%
Total	140	122	0.72	14.00	420	583	5	165	84.8%
Fall 2016 Yes	164	140	0.88	16.57	497	565	6	190	86.3%
Total	164	140	0.88	16.57	497	565	6	190	86.3%
Spring 2013 Yes	185	157	0.92	18.78	563	612	5	210	88.1%
Total	185	157	0.92	18.78	563	612	5	210	88.1%
Spring 2014 Yes	157	113	1.08	16.26	488	452	6	245	64.1%
Total	157	113	1.08	16.26	488	452	6	245	64.1%
Spring 2015 Yes	145	115	0.92	15.09	453	492	6	183	79.5%
Total	145	115	0.92	15.09	453	492	6	183	79.5%
Spring 2016 Yes	188	151	1.08	18.80	564	522	8	234	80.3%
Total	188	151	1.08	18.80	564	522	8	234	80.3%
Spring 2017 Yes	170	145	1.08	17.00	510	472	7	203	84.0%

Cañada College Productivity 2016-17

**Transfer vs Non Transfer Courses**

	<b>Census Headcount</b>	<b>End of Term Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Max Enroll</b>	<b>Fill Rates</b>
Total	170	145	1.08	17.00	510	472	7	203	84.0%
Summer 2012 Yes	43	42	0.36	4.52	136	377	2	80	53.8%
Total	43	42	0.36	4.52	136	377	2	80	53.8%
Summer 2013 Yes	113	97	0.56	11.34	340	607	3	145	77.9%
Total	113	97	0.56	11.34	340	607	3	145	77.9%
Summer 2014 Yes	140	113	0.72	14.32	429	596	4	165	84.8%
Total	140	113	0.72	14.32	429	596	4	165	84.8%
Summer 2015 Yes	132	98	0.92	13.42	403	438	4	200	66.0%
Total	132	98	0.92	13.42	403	438	4	200	66.0%
Summer 2016 Yes	153	114	0.88	15.32	460	522	4	195	78.5%
Total	153	114	0.88	15.32	460	522	4	195	78.5%

Cañada College Productivity 2016-17

		<b><u>Day vs Evening Courses</u></b>								
		<b>Census</b>	<b>End of Term</b>						<b>Max</b>	<b>Fill</b>
		<b>Headcount</b>	<b>Headcount</b>	<b>FTEF</b>	<b>FTES</b>	<b>WSCH</b>	<b>Load</b>	<b>Sections</b>	<b>Enroll</b>	<b>Rates</b>
Fall 2012	Day	121	102	0.56	12.20	366	653	3	130	93.1%
	Evening	53	51	0.36	6.00	180	500	2	80	66.3%
Fall 2013	Day	31	25	0.20	3.10	93	465	1	50	62.0%
	Evening	72	63	0.36	7.54	226	628	2	80	90.0%
Fall 2014	Day	57	51	0.36	5.70	171	475	2	80	71.3%
	Evening	110	80	0.72	9.73	292	406	4	160	68.8%
Fall 2015	Day	49	44	0.20	4.90	147	735	2	50	98.0%
	Evening	91	78	0.52	9.10	273	525	3	115	79.1%
Fall 2016	Day	79	69	0.36	7.90	237	658	3	80	98.8%
	Evening	85	71	0.52	8.67	260	500	3	110	77.3%
Spring 2013	Day	104	81	0.56	10.68	320	572	3	130	80.0%
	Evening	81	76	0.36	8.10	243	675	2	80	101.3%
Spring 2014	Day	51	33	0.36	5.10	153	425	2	80	63.8%
	Evening	106	80	0.72	11.16	335	465	4	165	64.2%
Spring 2015	Day	44	35	0.20	4.40	132	660	2	45	97.8%
	Evening	101	80	0.72	10.69	321	445	4	138	73.5%
Spring 2016	Day	79	65	0.36	7.90	237	658	3	75	105.3%
	Evening	109	86	0.72	10.90	327	454	5	159	68.6%
Spring 2017	Day	68	64	0.36	6.80	204	567	3	75	90.7%
	Evening	102	81	0.72	10.20	306	425	4	128	80.0%
Summer 2012	Evening	43	42	0.36	4.52	136	377	2	80	53.8%
Summer 2013	Evening	113	97	0.56	11.34	340	607	3	145	77.9%
Summer 2014	Evening	140	113	0.72	14.32	429	596	4	165	84.8%
Summer 2015	Evening	132	98	0.92	13.42	403	438	4	200	66.0%
Summer 2016	Evening	153	114	0.88	15.32	460	522	4	195	78.5%



**Productivity by Courses by Semester**

				Census Headcount	End of Term Headcount	FTEF	FTES	WSCH	Load	Sections	Max Enroll	Fill Rate
<b>Fall 2012</b>	ASTR	100	Introduction To Astronomy	118	104	0.60	12.23	367	612	3	150	79%
		101	Astronomy Laboratory	56	49	0.32	5.97	179	559	2	60	93%
		Total		174	153	0.92	18.20	546	593	5	210	83%
<b>Fall 2013</b>	ASTR	100	Introduction To Astronomy	69	59	0.40	6.90	207	518	2	100	69%
		101	Astronomy Laboratory	34	29	0.16	3.74	112	701	1	30	113%
		Total		103	88	0.56	10.64	319	570	3	130	79%
<b>Fall 2014</b>	ASTR	100	Introduction To Astronomy	105	79	0.60	8.78	264	439	3	150	70%
		101	Astronomy Laboratory	62	52	0.48	6.65	200	416	3	90	69%
		Total		167	131	1.08	15.43	463	429	6	240	70%
<b>Fall 2015</b>	ASTR	100	Intro To Astronomy-Honors	4	3	0.00	0.40	12	#INF	1	50	8%
			Introduction To Astronomy	82	68	0.40	8.20	246	615	2	100	82%
		101	Astronomy Laboratory	54	51	0.32	5.40	162	506	2	65	83%
		Total		140	122	0.72	14.00	420	583	5	215	65%
<b>Fall 2016</b>	ASTR	100	Intro To Astronomy-Honors	2	1	0.00	0.20	6	#INF	1	50	4%
			Introduction To Astronomy	82	71	0.40	8.20	246	615	2	100	82%
		101	Astronomy Laboratory	80	68	0.48	8.17	245	510	3	90	89%
		Total		164	140	0.88	16.57	497	565	6	240	68%
<b>Spring 2013</b>	ASTR	100	Introduction To Astronomy	117	92	0.60	11.70	351	585	3	150	78%
		101	Astronomy Laboratory	68	65	0.32	7.08	212	664	2	60	113%
		Total		185	157	0.92	18.78	563	612	5	210	88%
<b>Spring 2014</b>	ASTR	100	Introduction To Astronomy	95	66	0.60	9.78	294	489	3	150	63%
		101	Astronomy Laboratory	62	47	0.48	6.47	194	405	3	95	65%
		Total		157	113	1.08	16.26	488	452	6	245	64%
<b>Spring 2015</b>	ASTR	100	Intro To Astronomy-Honors	1	1	0.00	0.10	3	#INF	1	45	2%
			Introduction To Astronomy	102	82	0.60	10.57	317	528	3	135	76%
		101	Astronomy Laboratory	42	32	0.32	4.42	133	414	2	70	60%
		Total		145	115	0.92	15.09	453	492	6	250	58%
<b>Spring 2016</b>	ASTR	100	Intro To Astronomy-Honors	2	2	0.00	0.20	6	#INF	2	90	2%
			Introduction To Astronomy	110	89	0.60	11.00	330	550	3	135	81%
		101	Astronomy Laboratory	76	60	0.48	7.60	228	475	3	99	77%

**Productivity by Courses by Semester**

				Census Headcount	End of Term Headcount	FTEF	FTES	WSCH	Load	Sections	Max Enroll	Fill Rate
Total				188	151	1.08	18.80	564	522	8	324	58%
<b>Spring 2017</b>	ASTR	100	Intro To Astronomy-Honors	3	2	0.00	0.30	9	#INF	1	45	7%
			Introduction To Astronomy	99	85	0.60	9.90	297	495	3	135	73%
	101	Astronomy Laboratory	68	58	0.48	6.80	204	425	3	90	76%	
Total				170	145	1.08	17.00	510	472	7	270	63%
<b>Summer 2012</b>	ASTR	100	Introduction To Astronomy	27	26	0.20	2.84	85	426	1	50	54%
		101	Astronomy Laboratory	16	16	0.16	1.68	50	315	1	30	53%
	Total				43	42	0.36	4.52	136	377	2	80
<b>Summer 2013</b>	ASTR	100	Introduction To Astronomy	86	70	0.40	8.62	259	647	2	115	75%
		101	Astronomy Laboratory	27	27	0.16	2.72	81	509	1	30	90%
	Total				113	97	0.56	11.34	340	607	3	145
<b>Summer 2014</b>	ASTR	100	Introduction To Astronomy	86	69	0.40	8.62	259	647	2	100	86%
		101	Astronomy Laboratory	54	44	0.32	5.69	171	534	2	65	83%
	Total				140	113	0.72	14.32	429	596	4	165
<b>Summer 2015</b>	ASTR	100	Introduction To Astronomy	78	62	0.60	7.87	236	393	2	130	60%
		101	Astronomy Laboratory	54	36	0.32	5.55	167	521	2	70	77%
	Total				132	98	0.92	13.42	403	438	4	200
<b>Summer 2016</b>	ASTR	100	Introduction To Astronomy	80	62	0.40	7.81	234	586	2	100	80%
		101	Astronomy Laboratory	73	52	0.48	7.51	225	469	2	95	77%
	Total				153	114	0.88	15.32	460	522	4	195