



## Productivity 2013/14 through 2017/18 Earth Sciences (ENVS, GEOL, METE, OCEN)

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<u>Productivity by Year</u>									
	Census Headcount	End of Term Headcount	FTEF	FTES	WSCH	Load	Sections	Max Enroll	Fill Rates
2013/14	429	385	3.20	43.34	1,300	406	16	623	68.9%
2014/15	501	435	3.24	50.41	1,512	467	16	653	76.7%
2015/16	633	551	3.80	63.61	1,908	502	18	726	87.2%
2016/17	714	629	3.60	71.40	2,142	595	20	773	92.4%
2017/18	699	609	4.00	69.75	2,092	523	24	815	85.8%

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

**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 2013	166	151	1.12	16.91	507	453	6	220	75.5%
Fall 2014	173	145	1.12	17.61	528	472	6	220	78.6%
Fall 2015	205	174	1.32	20.81	624	473	7	256	80.1%
Fall 2016	178	152	1.12	17.80	534	477	6	213	83.6%
Fall 2017	193	166	1.12	19.30	579	517	7	215	89.8%
Spring 2014	186	166	1.32	18.65	559	424	7	263	70.7%
Spring 2015	199	177	1.32	19.90	597	452	7	258	77.1%
Spring 2016	286	252	1.68	28.60	858	511	8	320	89.4%
Spring 2017	363	316	1.68	36.30	1,089	648	11	390	93.1%
Spring 2018	301	264	1.88	29.95	898	478	11	375	80.3%
Summer 2013	77	68	0.76	7.79	234	307	3	140	55.0%
Summer 2014	129	113	0.80	12.90	387	484	3	175	73.7%
Summer 2015	142	125	0.80	14.20	426	533	3	150	94.7%
Summer 2016	173	161	0.80	17.30	519	649	3	170	101.8%
Summer 2017	205	179	1.00	20.50	615	615	6	225	91.1%

		<b><u>DE vs Non DE Courses</u></b>								
		<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 2013	FaceToFace	132	124	0.92	13.51	405	441	5	180	73.3%
	Online	34	27	0.20	3.40	102	510	1	40	85.0%
Fall 2014	FaceToFace	116	102	0.72	11.91	357	496	4	140	82.9%
	Online	57	43	0.40	5.70	171	428	2	80	71.3%
Fall 2015	FaceToFace	127	108	0.92	13.01	390	424	5	176	72.2%
	Online	78	66	0.40	7.80	234	585	2	80	97.5%
Fall 2016	FaceToFace	111	96	0.72	11.10	333	463	4	138	80.4%
	Online	67	56	0.40	6.70	201	503	2	75	89.3%
Fall 2017	FaceToFace	116	104	0.72	11.60	348	483	4	130	89.2%
	Online	77	62	0.40	7.70	231	578	3	85	90.6%
Spring 2014	FaceToFace	122	110	0.92	12.25	367	399	5	183	66.7%
	Online	64	56	0.40	6.40	192	480	2	80	80.0%
Spring 2015	FaceToFace	134	125	0.92	13.40	402	437	5	178	75.3%
	Online	65	52	0.40	6.50	195	488	2	80	81.3%
Spring 2016	FaceToFace	161	149	1.08	16.10	483	447	6	210	76.7%
	Online	125	103	0.60	12.50	375	625	2	110	113.6%
Spring 2017	FaceToFace	176	153	1.08	17.60	528	489	6	210	83.8%
	Online	187	163	0.60	18.70	561	935	5	180	103.9%
Spring 2018	FaceToFace	173	153	1.28	17.15	514	402	7	245	70.6%
	Online	128	111	0.60	12.80	384	640	4	130	98.5%
Summer 2013	FaceToFace	17	15	0.36	1.79	54	149	2	60	28.3%
	Online	60	53	0.40	6.00	180	450	1	80	75.0%
Summer 2014	Online	129	113	0.80	12.90	387	484	3	175	73.7%
Summer 2015	Online	142	125	0.80	14.20	426	533	3	150	94.7%

**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>
Summer 2016	Online	173	161	0.80	17.30	519	649	3	170	101.8%
Summer 2017	Online	205	179	1.00	20.50	615	615	6	225	91.1%

**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 2013	Non Basic Skills	166	151	1.12	16.91	507	453	6	220	75.5%
	Total	166	151	1.12	16.91	507	453	6	220	75.5%
Fall 2014	Non Basic Skills	173	145	1.12	17.61	528	472	6	220	78.6%
	Total	173	145	1.12	17.61	528	472	6	220	78.6%
Fall 2015	Non Basic Skills	205	174	1.32	20.81	624	473	7	256	80.1%
	Total	205	174	1.32	20.81	624	473	7	256	80.1%
Fall 2016	Non Basic Skills	178	152	1.12	17.80	534	477	6	213	83.6%
	Total	178	152	1.12	17.80	534	477	6	213	83.6%
Fall 2017	Non Basic Skills	193	166	1.12	19.30	579	517	7	215	89.8%
	Total	193	166	1.12	19.30	579	517	7	215	89.8%
Spring 2014	Non Basic Skills	186	166	1.32	18.65	559	424	7	263	70.7%
	Total	186	166	1.32	18.65	559	424	7	263	70.7%
Spring 2015	Non Basic Skills	199	177	1.32	19.90	597	452	7	258	77.1%
	Total	199	177	1.32	19.90	597	452	7	258	77.1%
Spring 2016	Non Basic Skills	286	252	1.68	28.60	858	511	8	320	89.4%
	Total	286	252	1.68	28.60	858	511	8	320	89.4%
Spring 2017	Non Basic Skills	363	316	1.68	36.30	1,089	648	11	390	93.1%
	Total	363	316	1.68	36.30	1,089	648	11	390	93.1%
Spring 2018	Non Basic Skills	301	264	1.88	29.95	898	478	11	375	80.3%

**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>
Summer 2013	Total	301	264	1.88	29.95	898	478	11	375	80.3%
	Non Basic Skills	77	68	0.76	7.79	234	307	3	140	55.0%
Summer 2014	Total	77	68	0.76	7.79	234	307	3	140	55.0%
	Non Basic Skills	129	113	0.80	12.90	387	484	3	175	73.7%
Summer 2015	Total	129	113	0.80	12.90	387	484	3	175	73.7%
	Non Basic Skills	142	125	0.80	14.20	426	533	3	150	94.7%
Summer 2016	Total	142	125	0.80	14.20	426	533	3	150	94.7%
	Non Basic Skills	173	161	0.80	17.30	519	649	3	170	101.8%
Summer 2017	Total	173	161	0.80	17.30	519	649	3	170	101.8%
	Non Basic Skills	205	179	1.00	20.50	615	615	6	225	91.1%
	Total	205	179	1.00	20.50	615	615	6	225	91.1%

**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 2013	Non CTE	166	151	1.12	16.91	507	453	6	220	75.5%
	Total	166	151	1.12	16.91	507	453	6	220	75.5%
Fall 2014	Non CTE	173	145	1.12	17.61	528	472	6	220	78.6%
	Total	173	145	1.12	17.61	528	472	6	220	78.6%
Fall 2015	Non CTE	205	174	1.32	20.81	624	473	7	256	80.1%
	Total	205	174	1.32	20.81	624	473	7	256	80.1%
Fall 2016	Non CTE	178	152	1.12	17.80	534	477	6	213	83.6%
	Total	178	152	1.12	17.80	534	477	6	213	83.6%
Fall 2017	Non CTE	193	166	1.12	19.30	579	517	7	215	89.8%

**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>
Spring 2014	Total	193	166	1.12	19.30	579	517	7	215	89.8%
	Non CTE	186	166	1.32	18.65	559	424	7	263	70.7%
Spring 2015	Total	186	166	1.32	18.65	559	424	7	263	70.7%
	Non CTE	199	177	1.32	19.90	597	452	7	258	77.1%
Spring 2016	Total	199	177	1.32	19.90	597	452	7	258	77.1%
	Non CTE	286	252	1.68	28.60	858	511	8	320	89.4%
Spring 2017	Total	286	252	1.68	28.60	858	511	8	320	89.4%
	Non CTE	363	316	1.68	36.30	1,089	648	11	390	93.1%
Spring 2018	Total	363	316	1.68	36.30	1,089	648	11	390	93.1%
	Non CTE	301	264	1.88	29.95	898	478	11	375	80.3%
Summer 2013	Total	301	264	1.88	29.95	898	478	11	375	80.3%
	Non CTE	77	68	0.76	7.79	234	307	3	140	55.0%
Summer 2014	Total	77	68	0.76	7.79	234	307	3	140	55.0%
	Non CTE	129	113	0.80	12.90	387	484	3	175	73.7%
Summer 2015	Total	129	113	0.80	12.90	387	484	3	175	73.7%
	Non CTE	142	125	0.80	14.20	426	533	3	150	94.7%
Summer 2016	Total	142	125	0.80	14.20	426	533	3	150	94.7%
	Non CTE	173	161	0.80	17.30	519	649	3	170	101.8%
Summer 2017	Total	173	161	0.80	17.30	519	649	3	170	101.8%
	Non CTE	205	179	1.00	20.50	615	615	6	225	91.1%
	Total	205	179	1.00	20.50	615	615	6	225	91.1%

<b><u>Transfer vs Non Transfer Courses</u></b>										
		<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 2013	Yes	166	151	1.12	16.91	507	453	6	220	75.5%
	Total	166	151	1.12	16.91	507	453	6	220	75.5%
Fall 2014	Yes	173	145	1.12	17.61	528	472	6	220	78.6%
	Total	173	145	1.12	17.61	528	472	6	220	78.6%
Fall 2015	Yes	205	174	1.32	20.81	624	473	7	256	80.1%
	Total	205	174	1.32	20.81	624	473	7	256	80.1%
Fall 2016	Yes	178	152	1.12	17.80	534	477	6	213	83.6%
	Total	178	152	1.12	17.80	534	477	6	213	83.6%
Fall 2017	Yes	193	166	1.12	19.30	579	517	7	215	89.8%
	Total	193	166	1.12	19.30	579	517	7	215	89.8%
Spring 2014	Yes	186	166	1.32	18.65	559	424	7	263	70.7%
	Total	186	166	1.32	18.65	559	424	7	263	70.7%
Spring 2015	Yes	199	177	1.32	19.90	597	452	7	258	77.1%
	Total	199	177	1.32	19.90	597	452	7	258	77.1%
Spring 2016	Yes	286	252	1.68	28.60	858	511	8	320	89.4%
	Total	286	252	1.68	28.60	858	511	8	320	89.4%
Spring 2017	Yes	363	316	1.68	36.30	1,089	648	11	390	93.1%
	Total	363	316	1.68	36.30	1,089	648	11	390	93.1%
Spring 2018	Yes	301	264	1.88	29.95	898	478	11	375	80.3%
	Total	301	264	1.88	29.95	898	478	11	375	80.3%
Summer 2013	Yes	77	68	0.76	7.79	234	307	3	140	55.0%

**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>	
Summer 2014	Total	77	68	0.76	7.79	234	307	3	140	55.0%
	Yes	129	113	0.80	12.90	387	484	3	175	73.7%
Summer 2015	Total	129	113	0.80	12.90	387	484	3	175	73.7%
	Yes	142	125	0.80	14.20	426	533	3	150	94.7%
Summer 2016	Total	142	125	0.80	14.20	426	533	3	150	94.7%
	Yes	173	161	0.80	17.30	519	649	3	170	101.8%
Summer 2017	Total	173	161	0.80	17.30	519	649	3	170	101.8%
	Yes	205	179	1.00	20.50	615	615	6	225	91.1%
	Total	205	179	1.00	20.50	615	615	6	225	91.1%



**Day vs Evening 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 2013	Day	132	124	0.92	13.51	405	441	5	180	73.3%
	Evening	34	27	0.20	3.40	102	510	1	40	85.0%
Fall 2014	Day	116	102	0.72	11.91	357	496	4	140	82.9%
	Evening	57	43	0.40	5.70	171	428	2	80	71.3%
Fall 2015	Day	127	108	0.92	13.01	390	424	5	176	72.2%
	Evening	78	66	0.40	7.80	234	585	2	80	97.5%
Fall 2016	Day	111	96	0.72	11.10	333	463	4	138	80.4%
	Evening	67	56	0.40	6.70	201	503	2	75	89.3%
Fall 2017	Day	116	104	0.72	11.60	348	483	4	130	89.2%
	Evening	77	62	0.40	7.70	231	578	3	85	90.6%
Spring 2014	Day	106	97	0.72	10.60	318	442	4	143	74.1%
	Evening	80	69	0.60	8.05	241	402	3	120	66.7%
Spring 2015	Day	134	125	0.92	13.40	402	437	5	178	75.3%
	Evening	65	52	0.40	6.50	195	488	2	80	81.3%
Spring 2016	Day	161	149	1.08	16.10	483	447	6	210	76.7%
	Evening	125	103	0.60	12.50	375	625	2	110	113.6%
Spring 2017	Day	176	153	1.08	17.60	528	489	6	210	83.8%
	Evening	187	163	0.60	18.70	561	935	5	180	103.9%
Spring 2018	Day	173	153	1.28	17.15	514	402	7	245	70.6%
	Evening	128	111	0.60	12.80	384	640	4	130	98.5%
Summer 2013	Day	17	15	0.36	1.79	54	149	2	60	28.3%
	Evening	60	53	0.40	6.00	180	450	1	80	75.0%
Summer 2014	Evening	129	113	0.80	12.90	387	484	3	175	73.7%
Summer 2015	Evening	142	125	0.80	14.20	426	533	3	150	94.7%
Summer 2016	Evening	173	161	0.80	17.30	519	649	3	170	101.8%
Summer 2017	Evening	205	179	1.00	20.50	615	615	6	225	91.1%

**Productivity by Courses by Semester**

				Census Headcount	End of Term Headcount	FTEF	FTES	WSCH	Load	Sections	Max Enroll	Fill Rate
<b>Fall 2013</b>	GEOL	100	Introduction To Geology	27	27	0.20	2.70	81	405	1	40	68%
			Introduction to Geology	22	19	0.20	2.20	66	330	1	40	55%
		101	Geology Laboratory	14	14	0.16	1.40	42	263	1	30	47%
	OCEN	100	Oceanography	72	61	0.40	7.20	216	540	2	80	90%
			101	Oceanography Lab	31	30	0.16	3.41	102	639	1	30
		Total		166	151	1.12	16.91	507	453	6	220	75%
<b>Fall 2014</b>	ENVS	115	Environmental Science	22	14	0.20	2.20	66	330	1	40	55%
	GEOL	100	Introduction To Geology	29	26	0.20	2.90	87	435	1	40	73%
			101	Geology Laboratory	14	9	0.16	1.40	42	263	1	30
	OCEN	100	Oceanography	77	65	0.40	7.70	231	578	2	80	96%
			101	Oceanography Lab	31	31	0.16	3.41	102	639	1	30
		Total		173	145	1.12	17.61	528	472	6	220	79%
<b>Fall 2015</b>	ENVS	115	Environmental Science	38	33	0.40	3.80	114	285	2	78	49%
	GEOL	100	Introduction to Geology	28	19	0.20	2.80	84	420	1	38	74%
			101	Geology Laboratory	16	14	0.16	1.60	48	300	1	30
	OCEN	100	Oceanography	92	79	0.40	9.20	276	690	2	80	115%
			101	Oceanography Lab	31	29	0.16	3.41	102	639	1	30
		Total		205	174	1.32	20.81	624	473	7	256	80%
<b>Fall 2016</b>	ENVS	115	Environmental Science	25	20	0.20	2.50	75	375	1	40	63%

**Productivity by Courses by Semester**

			Census Headcount	End of Term Headcount	FTEF	FTES	WSCH	Load	Sections	Max Enroll	Fill Rate	
	GEOL	100	Introduction to Geology	27	20	0.20	2.70	81	405	1	38	71%
		101	Geology Laboratory	14	12	0.16	1.40	42	263	1	30	47%
	OCEN	100	Oceanography	85	76	0.40	8.50	255	638	2	75	113%
		101	Oceanography Lab	27	24	0.16	2.70	81	506	1	30	90%
	Total			178	152	1.12	17.80	534	477	6	213	84%
<b>Fall 2017</b>	ENVS	115	Environmental Science	31	26	0.20	3.10	93	465	1	40	78%
	GEOL	100	Introduction to Geology	29	27	0.20	2.90	87	435	1	30	97%
		101	Geology Laboratory	16	14	0.16	1.60	48	300	1	30	53%
	OCEN	100	Oceanography	88	73	0.40	8.80	264	660	3	130	68%
		101	Oceanography Lab	29	26	0.16	2.90	87	544	1	30	97%
	Total			193	166	1.12	19.30	579	517	7	260	74%
<b>Spring 2014</b>	ENVS	115	Environmental Science	18	15	0.20	1.80	54	270	1	40	45%
	GEOL	100	Introduction to Geology	42	39	0.40	4.25	127	318	2	80	53%
		101	Geology Laboratory	10	8	0.16	1.00	30	188	1	30	33%
	OCEN	100	Oceanography	83	73	0.40	8.30	249	623	2	83	100%
		101	Oceanography Lab	33	31	0.16	3.30	99	619	1	30	110%
	Total			186	166	1.32	18.65	559	424	7	263	71%
<b>Spring 2015</b>	ENVS	115	Environmental Science	35	26	0.40	3.50	105	263	2	75	47%
	GEOL	100	Introduction to Geology	26	24	0.20	2.60	78	390	1	40	65%

**Productivity by Courses by Semester**

			Census Headcount	End of Term Headcount	FTEF	FTES	WSCH	Load	Sections	Max Enroll	Fill Rate	
	OCEN	100	Oceanography	92	84	0.40	9.20	276	690	2	83	111%
		101	Oceanography Lab	46	43	0.32	4.60	138	431	2	60	77%
	Total			199	177	1.32	19.90	597	452	7	258	77%
<b>Spring 2016</b>	ENVS	115	Environmental Science	52	37	0.40	5.20	156	390	2	75	69%
	GEOL	100	Introduction to Geology	40	36	0.20	4.00	120	600	1	40	100%
		101	Geology Laboratory	22	20	0.16	2.20	66	413	1	30	73%
	OCEN	100	Oceanography	137	126	0.60	13.70	411	685	2	115	119%
		101	Oceanography Lab	35	33	0.32	3.50	105	328	2	60	58%
	Total			286	252	1.68	28.60	858	511	8	320	89%
<b>Spring 2017</b>	ENVS	115	Environmental Science	67	50	0.40	6.70	201	503	2	75	89%
	GEOL	100	Introduction to Geology	27	23	0.20	2.70	81	405	1	40	68%
			Survey of Geology	47	46	0.00	4.70	141	#INF	1	50	94%
		101	Geology Laboratory	16	15	0.16	1.60	48	300	1	30	53%
	OCEN	100	Oceanography	156	139	0.60	15.60	468	780	4	180	87%
		101	Oceanography Lab	50	43	0.32	5.00	150	469	2	60	83%
Total			363	316	1.68	36.30	1,089	648	11	435	83%	
<b>Spring 2018</b>	ENVS	115	Environmental Science	73	60	0.60	7.15	214	357	3	110	66%
	GEOL	100	Introduction to Geology	28	24	0.20	2.80	84	420	1	40	70%
		101	Geology Laboratory	10	9	0.16	1.00	30	188	1	30	33%
	OCEN	100	Oceanography	150	136	0.60	15.00	450	750	4	180	83%

**Productivity by Courses by Semester**

				Census Headcount	End of Term Headcount	FTEF	FTES	WSCH	Load	Sections	Max Enroll	Fill Rate
	101	Oceanography Lab		40	35	0.32	4.00	120	375	2	60	67%
	Total			301	264	1.88	29.95	898	478	11	420	72%
<b>Summer 2013</b>	GEOL	100	Survey of Geology	11	9	0.20	1.16	35	173	1	30	37%
		101	Geology Laboratory	6	6	0.16	0.63	19	118	1	30	20%
	OCEN	100	Oceanography	60	53	0.40	6.00	180	450	1	80	75%
	Total			77	68	0.76	7.79	234	307	3	140	55%
<b>Summer 2014</b>	METE	100	Elementary Meteorology	23	20	0.20	2.30	69	345	1	45	51%
	OCEN	100	Oceanography	106	93	0.60	10.60	318	530	2	130	82%
	Total			129	113	0.80	12.90	387	484	3	175	74%
<b>Summer 2015</b>	METE	100	Meteorology -Weather & Climate	36	32	0.20	3.60	108	540	1	45	80%
	OCEN	100	Oceanography	106	93	0.60	10.60	318	530	2	105	101%
	Total			142	125	0.80	14.20	426	533	3	150	95%
<b>Summer 2016</b>	METE	100	Meteorology -Weather & Climate	41	38	0.20	4.10	123	615	1	45	91%
	OCEN	100	Oceanography	132	123	0.60	13.20	396	660	2	125	106%
	Total			173	161	0.80	17.30	519	649	3	170	102%
<b>Summer 2017</b>	ENVS	115	Environmental Science	33	25	0.20	3.30	99	495	1	45	73%
	METE	100	Meteorology -Weather & Climate	27	22	0.20	2.70	81	405	1	45	60%
	OCEN	100	Oceanography	145	132	0.60	14.50	435	725	4	180	81%
	Total			205	179	1.00	20.50	615	615	6	270	76%