

Enrollment Analysis – Phase I

Overall Enrollment Trends – Miramar College

Between Fall 2010 and Fall 2014, Miramar College’s overall enrollment remained relatively stable but increased 2% between Spring 2011 and Spring 2015. Enrollment in basic skills English and Math courses accounted for 8% of Miramar’s total enrollment over 2010/11 to 2014/15. Except for Math 046 which saw increases from 2010/11 to 2014/15, the other basic skills courses all witnessed decreases over the same period of time. On the other side, transfer level courses demonstrated mix enrollment trends.

Top Enrolled Subjects – Miramar College

Between 2010/11 and 2014/15, Math, English, Chemistry, Biology, History, Psychology, Fire Protection Technology, Administration of Justice, Business, Aviation Maint. Technology, Child Development, and Health Education comprised Miramar College’s top enrolled subjects with an average enrollment over 600 per term. Among these top enrolled subjects, Math and Chemistry had increases in both fall and spring enrollment during the five years; and most of the other top-enrolled subjects also experienced increases in enrollment in fall terms. Nevertheless, between Spring 2011 and Spring 2014, enrollments in more than half of the top-enrolled subjects demonstrated a decreasing trends but leveled off in Spring 2015. Table 1 and 2 summarize the top-enrolled subjects and their varied trends in enrollments over the five-year period of 2010/11 to 2014/15.

Table 1. Miramar College Top-Enrolled Subjects with 3,000 or more enrollments (Fall 2010 to Fall 2014)

Subject	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	5-Term Total	
						Enrollment	% of Total
Math	2,607	2,860	2,807	2,815	2,952	14,041	13%
English	1,534	1,425	1,405	1,407	1,325	7,096	-14%
Chemistry	1,083	1,175	1,218	1,397	1,420	6,293	31%
Biology	970	964	1,058	1,009	1,005	5,006	4%
History	905	890	952	929	791	4,467	-13%
Psychology	832	820	729	781	955	4,117	15%
Fire Protection	936	776	682	749	786	3,929	-16%

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Technology							
Administration of Justice	716	858	815	732	678	3,799	-5%
Business	589	764	771	820	837	3,781	42%
Aviation	703	656	707	747	802	3,615	14%
Maintenance Technology							
Child Development	786	574	590	616	854	3,420	9%
Health Education	678	656	672	676	642	3,324	-5%

Table 2. Miramar College Top-Enrolled Subjects with 3,000 or more enrollments (Spring 2011 to Spring 2015)

Subject	Spring 2011	Spring 2012	Spring 2013	Spring 2014	Spring 2015	5-Term Total	
						Enrollment	% of Total
MATH	2,667	2,811	2,865	2,693	2,976	14,012	12%
English	1,541	1,470	1,419	1,346	1,403	7,179	-9%
Chemistry	1,237	1,283	1,271	1,301	1,606	6,698	30%
Biology	1,076	1,108	1,035	992	1,104	5,315	3%
Business	752	866	898	855	763	4,134	1%
Aviation							
Maintenance Technology	790	697	796	763	895	3,941	13%
Fire Protection Technology	777	758	738	777	795	3,845	2%
History	788	791	706	695	843	3,823	7%
Child Development	807	725	710	689	881	3,812	9%
Administration of Justice	801	821	760	725	679	3,786	-15%
Psychology	776	704	721	714	788	3,703	2%
Health Education	684	754	763	592	394	3,187	-42%
Communications	683	659	602	529	665	3,138	-3%
Art-Fine Art	607	701	553	616	616	3,093	1%

Trends for Subjects and Courses within the Top 50% of Enrollment – Miramar College

There were approximately 44 courses accounted for 50% of Miramar College's overall enrollment during the five-year period of 2010/11 to 2014/15. In general, these courses included basic skills math and English courses as well as core general education courses. Among these top-enrolled

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courses, roughly 10 courses accounted for top 20% of the overall enrollment with Health Education 101, Psychology 101, Math 096, Math 046, Math 119, English 101, Communication Studies 103, and Biology 107 ranked highly in both fall terms and spring terms. There were also roughly 34 courses accounted for another top 30% of the overall enrollment during the five-year period of 2010/11 to 2014/15, which included mainly basic skill English courses and core general education courses at the transfer level. Tables 3 and 4 summarize the top-enrolled courses that accounted respectively for top 20% and top 21% to 50% of the overall enrollment at Miramar College between 2010/11 and 2014/15.

From Fall 2010 to Fall 2014, there was a high demand for all of the basic skills Math and English courses (Math 046 and 038; and English 042, 043, 048, and 049). Consistently, demand for some of the transfer level Math and English courses (Math 096, 119, 116, 104; and English 101, 205) was also high. Besides, some transfer level Chemistry courses (Chemistry 152, 152L, 100, and 100L) also continuously showed high demand. Enrollment trends for the same high demand courses remained similar during the spring terms between 2011 and 2015 with the addition of two courses: Math 141 and Chemistry 200.

Table 3. Top-Enrolled subjects and course numbers accounted for 20% and 21%-50% of the overall enrollment at Miramar College (Fall 2010 to Fall 2014)

Subject	Course Number	
	(Courses accounted for top 20% of overall enrollment)	(Course accounted for top 21%-50% of overall enrollment)
Health Education	101	
Psychology	101	
Math	046 096 038 119	116 104
English	101	043 049 042 205 048
Communications	103	
Biology	107	230
Sociology	101	
Economics		120 121
Accounting		116A 116B
History		109 110 100
Business		119 100 140

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Administration		
Nutrition		150
Political Science		102
Emergency Medical Technician		105A
Personal Growth		120
Chemistry		152 152L 100 100L
Music		109 100
Art-Fine Art		100
Geology		100
Spanish		101
Humanities		101
Anthropology		102
Astronomy		101

Table 4. Top-Enrolled subjects and course numbers accounted for 20% and 21%-50% of the overall enrollment at Miramar College (Spring 2011 to Spring 2015)

Subject	Course Number	
	(Courses accounted for top <u>20%</u> of overall enrollment)	(Course accounted for top <u>21%-50%</u> of overall enrollment)
Health Education	101	
Math	096 046 119	038 104 116 141
Communications	103	
Psychology	101	
English	101 049	205 048 042
Nutrition	150	
Biology	107	230
Economics		120 121
Sociology		101

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Business		119	140
Political Science		102	
History		110	109
Chemistry		152L	152 200L 100
Accounting		116B	
Art-Fine Art		100	
Spanish		101	
Astronomy		101	
Geology		100	
Personal Growth		120	
Child Development		101	
Music		109	
Humanities		101	
Anthropology		102	

A closer look at the courses that accounted for the top 20% of the total enrollment revealed slightly varying enrollment trends over the five-year period as shown in Table 5 and 6. Core general education courses such as Health Education 101, Psychology 101, English 101, Communications 103, Biology 107, and Math 046, 096, and 119 remained in top 20% in both fall and spring terms between 2010/11 and 2014/15. During the same fall and spring terms, Psychology 101, Math 096, 046, and 119 witnessed increases in enrollment whereas Health Education 101 and English 101 saw decreases in enrollment.

Table 5. Top-Enrolled Courses accounted for 20% of the overall enrollment at Miramar College (Fall 2010 to Fall 2014)

Course	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	5-Term Total	
						Enrollment	% Change
Health Education 101	678	656	672	676	642	3,324	-5%
Psychology 101	512	577	531	604	701	2,925	37%
Math 096	501	541	541	543	515	2,641	3%
Math 046	452	496	502	429	488	2,367	8%
English 101	494	459	436	447	440	2,276	-11%

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Communications 103	452	445	422	442	443	2,204	-2%
Math 119	397	340	343	432	445	1,957	12%
Math 038	340	398	387	365	299	1,789	-12%
Biology 107	341	357	334	346	330	1,708	-3%
Sociology 101	307	333	286	313	417	1,656	36%

Table 6. Top-Enrolled Courses accounted for 20% of the overall enrollment at Miramar College (Spring 2011 to Spring 2015)

Course	Spring 2011	Spring 2012	Spring 2013	Spring 2014	Spring 2015	5-Term Total	
						Enrollment	% Change
Health Education 101	684	754	763	592	394	3,187	-42%
Math 096	459	468	514	511	527	2,479	15%
Communications 103	525	509	512	429	438	2,413	-17%
Psychology 101	459	448	454	467	538	2,366	17%
English 101	453	427	408	405	439	2,132	-3%
Math 046	431	456	392	382	451	2,112	5%
Math 119	405	416	422	404	458	2,105	13%
English 049	390	408	407	338	367	1,910	-6%
Nutrition 150	303	394	433	356	378	1,864	25%
Biology 107	341	353	337	344	390	1,765	14%

Courses with the Greatest Increases in Enrollment

Among the courses accounted for the top 50% overall enrollment, several saw substantial increases (25% or more) in enrollment from 2010/11 to 2014/15. These courses included a wide variety of subjects and were all at the transfer level. Chemistry 152L and 152 demonstrated the most consistent and fast growth. Table 7 and 8 summarize the courses with the greatest increases in enrollment for the five-year from 2010/11 to 2014/15.

Table 7. Miramar College Courses with Greatest Increases in Enrollment (Fall 2010 to Fall 2014)*

Course	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	% Change
Economics 121	104	180	189	195	218	110%
Chemistry 152L	125	141	149	194	243	94%
Chemistry 152	126	146	162	192	240	90%
Anthropology 102	114	97	109	185	207	82%
Math 104	192	277	282	284	330	72%

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Business 100	195	195	207	244	270	38%
Psychology 101	512	577	531	604	701	37%
Sociology 101	307	333	286	313	417	36%
Biology 230	119	122	143	149	149	25%

* Among courses accounted for 50% of the total enrollment with 25% or more increases

Table 8. Miramar College Courses with Greatest Increases in Enrollment (Spring 2011 to Spring 2015) *

Course	Spring 2011	Spring 2012	Spring 2013	Spring 2014	Spring 2015	% Change
Anthropologie 102	64	68	115	206	211	230%
Chemistry 200L	72	73	95	100	193	168%
Chemistry 152	139	150	154	234	279	101%
Chemistry 152L	142	146	144	240	269	89%
Child Development 101	124	113	143	148	195	57%
Math 141	107	131	116	129	153	43%
History 109	174	190	187	173	241	39%
Astronomy 101	149	277	186	97	202	36%
Accounting 116A	207	254	239	281	273	32%
Math 104	253	252	284	251	319	26%
Nutrition 150	303	394	433	356	378	25%
Geology 100	127	290	150	132	159	25%

*Among courses accounted for 50% of the total enrollment with 25% or more increases

Courses with the Greatest Decreases in Enrollment

In contrast, among the courses accounted for the top 50% overall enrollment, there're also several saw substantial decreases (25% or more) in enrollment from 2010/11 to 2014/15. These courses also spanned a wide variety of subjects and were all at the transfer level except for two basic skills English courses (English 049 and 042). Table 9 and 10 summarize the courses with the greatest decreases in enrollment for the five-year from 2010/11 to 2014/15.

Table 9. Miramar College Courses with Greatest Decreases in Enrollment (Fall 2010 to Fall 2014)*

Course	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	% Change
Art-Fine Art 100	284	139	135	133	100	-65%
Nutrition 150	292	316	193	208	140	-52%
Music 100	162	133	147	140	102	-37%

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History 109	272	285	327	206	191	-30%
Humanities 101	188	177	123	119	132	-30%
Geology 100	182	172	96	192	133	-27%
Chemistry 100L	147	173	146	179	112	-24%
Chemistry 100	161	174	147	175	123	-24%
Political Science 102	250	236	212	231	192	-23%
English 049	375	320	329	331	296	-21%
Spanish 101	182	151	139	152	145	-20%
Music 109	183	188	137	145	146	-20%

*Among courses accounted for 50% of the total enrollment with 20% or more decreases

Table 10. Miramar College Courses with Greatest Decreases in Enrollment (Spring 2011 to Spring 2015) *

Course	Spring 2011	Spring 2012	Spring 2013	Spring 2014	Spring 2015	% Change
Chemistry 100	164	168	174	118	91	-45%
Health 101	684	754	763	592	394	-42%
History 110	294	272	273	225	200	-32%
English 042	166	171	173	173	116	-30%
Humanities 101	167	137	127	134	122	-27%

*Among courses accounted for 50% of the total enrollment with 20% or more decreases