

Component Area	Course	Reading	Writing	Speaking	Listening	Critical Thinking	Computer Literacy
		The ability to analyze and interpret a variety of printed materials-books, articles, and documents including both general methods of analyzing printed materials and specific methods for analyzing the subject matter of individual disciplines.	the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience. In addition to correct grammar, spelling, and punctuation students need to be familiar with the writing process including how to discover a topic and how to develop and organize it, <u>and</u> how to phrase it effectively for their audience.	The ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion and audience.	analyze and interpret various forms of spoken communication.	applying both qualitative and quantitative skills analytically and creatively to subject matter in order to evaluate arguments and to construct alternative strategies. Problem solving is one application of critical thinking.	ability to use computer-based technology in communication, solving problems, and acquiring information. Includes an understanding of the limits, problems, and possibilities associated with the use of technology and the development of the tools necessary to evaluate and learn new technologies as they become available.
Communication							
	ENGL 1301	X	X	X	X	X	X
	ENGL 1302	X	X	X	X	X	X
	SPCH 1311	X	X	X	X	X	X
	SPCH 1315	X	X	X	X	X	X
	SPCH 1318	X	X	X	X	X	X
	SPCH 1321	X	X	X	X	X	X
Mathematics							
	MATH 1314	X	X	X	X	X	X
	MATH 1316	X	X	X	X	X	X
	MATH 1324	X	X	X	X	X	X
	MATH 1325	X	X	X	X	X	X
	MATH 1332	X	X	X	X	X	X
	MATH 1348	X	X	X	X	X	X
	MATH 1350	X	X	X	X	X	X
	MATH 1351	X	X	X	X	X	X
	MATH 1414	X	X	X	X	X	X
	MATH 1442	X	X	X	X	X	X
	MATH 2318	X	X	X	X	X	X
	MATH 2320	X	X	X	X	X	X
	MATH 2412	X	X	X	X	X	X
	MATH 2413	X	X	X	X	X	X
	MATH 2414	X	X	X	X	X	X
	MATH 2415	X	X	X	X	X	X
Natural Sciences							
	BIOL 1308	X	X		X	X	X
	BIOL 1322	X	X	X	X	X	X
	BIOL 1406	X	X	X	X	X	X
	BIOL 1407	X	X	X	X	X	X
	BIOL 1408	X	X			X	
	BIOL 1409	X	X			X	

Component Area	Course	Reading	Writing	Speaking	Listening	Critical Thinking	Computer Literacy
	BIOL 1411	X	X		X	X	
	BIOL 1413	X	X		X	X	
	BIOL 2106	X				X	
	BIOL 2301	X	X	X	X	X	X
	BIOL 2306	X	X			X	X
	BIOL 2389	X	X	X	X	X	
	BIOL 2401	X	X	X	X	X	X
	BIOL 2402	X	X	X	X	X	X
	BIOL 2406	X	X			X	X
	BIOL 2416	X	X	X	X	X	X
	BIOL 2420	X	X	X	X	X	X
	BIOL 2421	X	X	X	X	X	X
	CHEM 1311	X	X		X	X	X
	CHEM 1111	X	X	X	X	X	X
	CHEM 1312	X	X		X	X	X
	CHEM 1112	X	X	X	X	X	X
	CHEM 1405	X				X	
	CHEM 1407	X	X	X	X	X	X
	CHEM 2323	X	X	X	X	X	X
	CHEM 2223	X	X	X	X	X	X
	CHEM 2325	X				X	X
	CHEM 2225	X				X	X
	GEOG 1301	X	X	X	X	X	X
	GEOL 1305	X	X	X	X	X	X
	GEOL 1345	X	X	X	X	X	X
	GEOL 1401	X	X	X	X	X	X
	GEOL 1402	X	X	X	X	X	X
	GEOL 1403	X	X	X	X	X	X
	GEOL 1404	X	X	X	X	X	X
	PHYS 1401	X	X	X	X	X	X
	PHYS 1402	X	X	X	X	X	X
	PHYS 1405	X	X	X	X	X	X
	PHYS 2425	X	X	X	X	X	X
	PHYS 2426	X	X	X	X	X	X
Visual & Performing Arts							
	ARTS 1301	X	X	X	X	X	X
	ARTS 1303	X	X	X	X	X	X
	ARTS 1304	X	X	X	X	X	X
	ARTS 1316	X	X	X	X	X	X
	ARTS 2316	X	X	X	X	X	X
	ARTS 2326	X	X	X	X	X	X
	ARTS 2346	X	X	X	X	X	X
	ARTS 2348			X	X	X	X
	ARTS 2356	X	X	X	X	X	X
	DANC 2303	X	X	X	X	X	X

Component Area	Course	Reading	Writing	Speaking	Listening	Critical Thinking	Computer Literacy
	DRAM 1310	X	X	X	X	X	X
	HUMA 1311		X		X		
	MUSI 1301	X	X	X	X	X	
	MUSI 1310	X	X	X	X	X	
Humanities							
	ENGL 2307	X	X	X	X	X	X
	ENGL 2311	X	X	X	X	X	X
	ENGL 2322	X	X	X	X	X	X
	ENGL 2323	X	X	X	X	X	X
	ENGL 2327	X	X	X	X	X	X
	ENGL 2328	X	X	X	X	X	X
	ENGL 2332	X	X	X	X	X	X
	ENGL 2333	X	X	X	X	X	X
	ENGL 2341	X	X	X	X	X	X
	ENGL 2351	X	X	X	X	X	X
	ENGL 2375	X	X	X	X	X	X
	HIST 2321	X	X	X	X	X	X
	HIST 2322	X	X	X	X	X	X
	HUMA 1301	X	X	X	X	X	X
	HUMA 1302	X	X	X	X	X	X
	HUMA 1305	X	X	X	X	X	X
	HUMA 2323	X	X	X	X	X	X
	PHIL 1301	X	X	X	X	X	X
	PHIL 1304	X	X	X	X	X	X
	PHIL 2303	X	X	X	X	X	
	PHIL 2306	X	X	X	X	X	X
	SGNL 1301	X	X	X	X	X	X
	SGNL 1302	X	X	X	X	X	X
	SPAN 1411	X	X	X	X	X	X
	SPAN 1412	X	X	X	X	X	X
	SPAN 2311	X	X	X	X	X	X
	SPAN 2312	X	X	X	X	X	X
Social/Behavior Sciences							
	ANTH 2346	X	X		X	X	
	ANTH 2351	X	X		X	X	
	COMM 1307	X	X	X	X	X	X
	CRIJ 1301	X	X	X	X	X	X
	CRIJ 1307	X	X	X	X	X	X
	ECON 1301	X	X	X	X	X	X
	ECON 1303	X	X	X	X	X	X
	ECON 2301	X	X	X	X	X	X
	ECON 2302	X	X	X	X	X	X
	ECON 2311	X	X	X	X	X	X
	GEOG 1303	X	X	X	X	X	X
	GOVT 2304	X	X	X	X	X	X

Component Area	Course	Reading	Writing	Speaking	Listening	Critical Thinking	Computer Literacy
	GOVT 2305	X	X	X	X	X	X
	GOVT 2306	X	X	X	X	X	X
	GOVT 2311	X	X	X	X	X	X
	HIST 1301	X	X	X	X	X	X
	HIST 1302	X	X	X	X	X	X
	HIST 2301	X	X	X	X	X	X
	HIST 2311	X	X	X	X	X	X
	HIST 2312	X	X	X	X	X	X
	HIST 2313	X	X	X	X	X	X
	HIST 2314	X	X	X	X	X	X
	HIST 2321	X	X	X	X	X	X
	HIST 2322	X	X	X	X	X	X
	HIST 2323	X	X	X	X	X	X
	HIST 2327	X	X	X	X	X	X
	HIST 2328	X	X	X	X	X	X
	HIST 2381	X	X	X	X	X	X
	PSYC 2301	X	X	X	X	X	X
	PSYC 2306	X	X	X	X	X	X
	PSYC 2308	X	X	X	X	X	X
	PSYC 2314	X	X	X	X	X	X
	PSYC 2316	X	X	X	X	X	X
	PSYC 2319	X	X	X		X	X
	SOCI 1301	X	X		X	X	
	SOCI 1306	X	X	X	X	X	X
	SOCW 2361	X	X	X	X	X	X
Institutional Option							
	DANC 1112	X	X	X	X	X	X
	DANC 1113	X	X	X	X	X	X
	DANC 1128	X	X	X	X	X	X
	DANC 1129	X	X	X	X	X	X
	DANC 1141	X	X		X	X	
	DANC 1142	X	X		X	X	
	DANC 1145	X	X		X	X	
	DANC 1146	X	X		X	X	
	DANC 1147	X	X		X	X	
	DANC 1148	X	X		X	X	
	DANC 1149	X	X		X	X	
	DANC 1150	X	X		X	X	
	DANC 1151	X	X	X	X	X	X
	DANC 1152	X	X	X	X	X	X
	DANC 1301	X	X	X	X	X	X
	DANC 2112	X	X	X	X	X	X
	DANC 2145	X	X	X	X	X	X
	DANC 2146	X	X	X	X	X	X
	DANC 2149	X	X	X	X	X	

Component Area	Course	Reading	Writing	Speaking	Listening	Critical Thinking	Computer Literacy
	DANC 2150	X	X	X	X	X	
	DANC 2151	X	X	X	X	X	
	DANC 2152	X	X	X	X	X	X
	DANC 2246	X	X	X	X	X	X
	DANC 2303	X	X	X	X	X	X
	KINE 1101	X	X	X	X	X	
	KINE 1102	X	X	X	X	X	X
	KINE 1103	X	X	X	X	X	X
	KINE 1104	X	X	X	X	X	X
	KINE 1106	X	X	X	X	X	X
	KINE 1110	X	X	X	X	X	X
	KINE 1111	X	X	X	X	X	X
	KINE 1112	X	X	X	X	X	X
	KINE 1113	X	X	X	X	X	X
	KINE 1115	X	X	X	X	X	X
	KINE 1120	X	X	X	X	X	X
	KINE 1121	X	X	X	X	X	X
	KINE 1123	X	X	X	X	X	X
	KINE 1124	X	X	X	X	X	X
	KINE 1125	X	X	X	X	X	X
	KINE 1127	X	X	X	X	X	X
	KINE 1131	X	X	X	X	X	X
	KINE 1132	X	X	X	X	X	X
	KINE 1136	X	X	X	X	X	X
	KINE 1140	X	X	X	X	X	X
	KINE 1150	X	X	X	X	X	X
	KINE 1153	X	X	X	X	X	X
	KINE 1156	X	X	X	X	X	X
	KINE 1160	X	X	X	X	X	X
	KINE 1175	X	X	X	X	X	X
	KINE 1176	X	X	X	X	X	X
	KINE 1178	X	X	X	X	X	X
	KINE 1179	X	X	X	X	X	X
	KINE 1180	X	X	X	X	X	X
	KINE 1182	X	X	X	X	X	X
	KINE 1184	X	X	X	X	X	X
	KINE 1238	X	X	X	X	X	X
	KINE 1301	X	X	X	X	X	X
	KINE 1306	X	X	X	X	X	X
	KINE 1308	X	X	X	X	X	X
	KINE 1321	X	X	X	X	X	X
	KINE 1322	X	X	X	X	X	X
	KINE 1331	X	X	X	X	X	X
	KINE 1338	X	X	X	X	X	X
	KINE 1346	X	X	X	X	X	X

Component Area	Course	Reading	Writing	Speaking	Listening	Critical Thinking	Computer Literacy
	KINE 2101	X	X	X	X	X	X
	KINE 2103	X	X	X	X	X	X
	KINE 2106	X	X	X	X	X	X
	KINE 2110	X	X	X	X	X	X
	KINE 2115	X	X	X	X	X	X
	KINE 2120	X	X	X	X	X	X
	KINE 2123	X	X	X	X	X	X
	KINE 2136	X	X	X	X	X	X
	KINE 2147	X	X	X	X	X	X
	KINE 2148	X	X	X	X	X	X
	KINE 2149	X	X	X	X	X	X
	KINE 2150	X	X	X	X	X	X
	KINE 2154	X	X	X	X	X	X
	KINE 2156	X	X	X	X	X	X
	KINE 2176	X	X	X	X	X	X
	KINE 2178	X	X	X	X	X	X
	KINE 2179	X	X	X	X	X	X
	KINE 2180	X	X	X	X	X	X
	KINE 2182	X	X	X	X	X	X
	KINE 2184	X	X	X	X	X	X

Component Area	Course	Perspective #1	Perspective #2	Perspective #3	Perspective #4	Perspective #5	Perspective #6	Perspective #7	Perspective #8
		Establish broad and multiple perspectives on the individual in relation to the larger society and world in which he or she lives, and to understand the responsibilities of living in a culturally and ethnically diversified world;	Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of life in order to understand ways in which to be a responsible member of society;	Recognize the importance of maintaining health and wellness;	Develop a capacity to use knowledge of how technology and science affect their lives;	Develop personal values for ethical behavior;	Develop the ability to make aesthetic judgments;	Use logical reasoning in problem solving;	Integrate knowledge and understand the interrelationships of the scholarly disciplines.
I									
	ENGL 1301	X	X		X	X	X	X	X
	ENGL 1302	X	X			X	X	X	X
	SPCH 1311	X	X	X	X	X	X	X	X
	SPCH 1315	X	X	X	X	X	X	X	X
	SPCH 1318	X	X	X	X	X	X	X	X
	SPCH 1321	X	X	X	X	X	X	X	X
Mathematics									
	MATH 1314	X	X		X	X	X	X	X
	MATH 1316	X	X		X	X	X	X	X
	MATH 1324	X	X		X	X	X	X	X
	MATH 1325	X	X		X	X	X	X	X
	MATH 1332	X	X			X		X	X
	MATH 1348	X	X		X	X	X	X	X
	MATH 1350	X	X		X	X	X	X	X
	MATH 1351	X	X		X	X	X	X	X
	MATH 1414	X	X		X	X	X	X	X
	MATH 1442	X	X		X	X	X	X	X
	MATH 2318	X	X		X	X	X	X	X
	MATH 2320	X	X		X	X	X	X	X
	MATH 2412	X	X		X	X	X	X	X
	MATH 2413	X	X		X	X	X	X	X
	MATH 2414	X	X		X	X	X	X	X
	MATH 2415	X	X		X	X	X	X	X
Natural Sciences									
	BIOL 1308	X	X	X	X	X	X	X	X
	BIOL 1322	X	X	X	X	X	X	X	X
	BIOL 1406	X	X	X	X	X		X	X
	BIOL 1407	X	X	X	X	X		X	X
	BIOL 1408	X	X	X	X	X		X	X
	BIOL 1409	X	X	X	X	X		X	X
	BIOL 1411	X	X	X	X	X	X	X	X
	BIOL 1413	X	X	X	X	X	X	X	X

Component Area	Course	Perspective #1	Perspective #2	Perspective #3	Perspective #4	Perspective #5	Perspective #6	Perspective #7	Perspective #8
	BIOL 2106				X			X	
	BIOL 2301	X	X	X	X	X	X	X	X
	BIOL 2306					X		X	
	BIOL 2389	X	X	X	X	X	X	X	X
	BIOL 2401	X		X	X	X		X	X
	BIOL 2402	X		X	X	X		X	X
	BIOL 2406	X	X	X	X	X		X	
	BIOL 2416	X	X	X	X	X		X	X
	BIOL 2420	X	X	X	X	X	X	X	X
	BIOL 2421	X	X	X	X	X	X	X	X
	CHEM 1311			X	X	X		X	X
	CHEM 1111			X	X	X		X	X
	CHEM 1312			X	X	X		X	X
	CHEM 1112			X	X	X		X	X
	CHEM 1405				X			X	
	CHEM 1407	X	X	X	X	X		X	X
	CHEM 2323				X			X	
	CHEM 2223				X			X	X
	CHEM 2325				X			X	
	CHEM 2225				X			X	
	GEOG 1301	X	X	X	X	X	X	X	X
	GEOL 1305	X	X	X	X	X	X	X	X
	GEOL 1345	X	X	X	X	X	X	X	X
	GEOL 1401	X			X		X	X	X
	GEOL 1402	X	X	X	X	X	X	X	X
	GEOL 1403	X	X		X	X	X	X	X
	GEOL 1404	X	X		X			X	X
	PHYS 1401	X	X		X		X	X	X
	PHYS 1402	X	X		X		X	X	X
	PHYS 1405	X	X		X		X	X	X
	PHYS 2425	X	X		X		X	X	X
	PHYS 2426	X	X		X		X	X	X
Visual & Performing Arts									
	ARTS 1301	X	X	X	X	X	X	X	X
	ARTS 1303	X	X	X	X	X	X	X	X
	ARTS 1304	X	X	X	X	X	X	X	X
	ARTS 1316	X	X		X		X	X	X
	ARTS 2316	X	X				X	X	X
	ARTS 2326	X	X	X	X	X	X	X	X
	ARTS 2346	X	X	X	X	X	X	X	X
	ARTS 2348	X	X		X	X	X	X	X
	ARTS 2356	X	X		X	X	X	X	X
	DANC 2303	X	X	X	X	X	X	X	X
	DRAM 1310	X	X	X	X	X	X	X	X
	HUMA 1311					X	X	X	

Component Area	Course	Perspective #1	Perspective #2	Perspective #3	Perspective #4	Perspective #5	Perspective #6	Perspective #7	Perspective #8
	MUSI 1301	X	X		X		X	X	X
	MUSI 1310	X	X		X	X	X	X	X
Humanities									
	ENGL 2307	X	X			X	X	X	X
	ENGL 2311	X	X		X	X	X	X	X
	ENGL 2322	X	X		X	X	X	X	X
	ENGL 2323	X	X		X	X	X	X	X
	ENGL 2327	X	X		X	X	X	X	X
	ENGL 2328	X	X		X	X	X	X	X
	ENGL 2332	X	X		X	X	X	X	X
	ENGL 2333	X	X		X	X	X	X	X
	ENGL 2341	X	X		X	X	X	X	X
	ENGL 2351	X	X		X	X	X	X	X
	ENGL 2375	X	X		X	X	X	X	X
	HIST 2321	X	X	X	X	X	X	X	X
	HIST 2322	X	X	X	X	X	X	X	X
	HUMA 1301	X	X	X	X		X	X	X
	HUMA 1302	X	X		X	X	X	X	X
	HUMA 1305	X	X				X	X	X
	HUMA 2323	X	X		X		X	X	X
	PHIL 1301	X	X	X	X	X	X	X	X
	PHIL 1304	X	X	X	X	X	X	X	X
	PHIL 2303	X	X	X	X	X	X	X	X
	PHIL 2306	X	X	X	X	X	X	X	X
	SGNL 1301	X	X	X	X	X	X	X	X
	SGNL 1302	X	X	X	X	X	X	X	X
	SPAN 1411	X	X	X	X	X	X	X	X
	SPAN 1412	X	X	X	X	X	X	X	X
	SPAN 2311	X	X	X	X	X	X	X	X
	SPAN 2312	X	X	X	X	X	X	X	X
Social/Behavior Sciences									
	ANTH 2346	X	X		X	X		X	X
	ANTH 2351	X	X		X	X		X	X
	COMM 1307	X	X	X	X	X	X	X	X
	CRIJ 1301	X	X		X	X		X	X
	CRIJ 1307	X	X		X	X		X	X
	ECON 1301	X	X		X		X	X	X
	ECON 1303	X	X	X	X	X	X	X	X
	ECON 2301	X	X		X	X	X	X	X
	ECON 2302	X	X	X	X	X	X	X	X
	ECON 2311	X	X		X	X	X	X	X
	GEOG 1303	X	X	X	X	X	X	X	X
	GOVT 2304	X				X	X	X	X
	GOVT 2305	X	X	X	X	X	X	X	X
	GOVT 2306	X	X	X	X	X	X	X	X

Component Area	Course	Perspective #1	Perspective #2	Perspective #3	Perspective #4	Perspective #5	Perspective #6	Perspective #7	Perspective #8
	GOVT 2311	X	X	X	X	X	X	X	X
	HIST 1301	X	X	X	X	X	X	X	X
	HIST 1302	X	X	X	X	X	X	X	X
	HIST 2301	X	X	X	X	X	X	X	X
	HIST 2311	X	X	X	X	X	X	X	X
	HIST 2312	X	X	X	X	X	X	X	X
	HIST 2313	X	X	X	X	X	X	X	X
	HIST 2314	X	X	X	X	X	X	X	X
	HIST 2321	X	X	X	X	X	X	X	X
	HIST 2322	X	X	X	X	X	X	X	X
	HIST 2323	X	X	X	X	X	X	X	X
	HIST 2327	X	X	X	X	X	X	X	X
	HIST 2328	X	X	X	X	X	X	X	X
	HIST 2381	X	X	X	X	X	X	X	X
	PSYC 2301	X	X	X	X	X	X	X	X
	PSYC 2306	X	X	X	X	X	X	X	X
	PSYC 2308	X	X	X	X	X	X	X	X
	PSYC 2314	X	X	X	X	X	X	X	X
	PSYC 2316	X	X	X	X	X		X	X
	PSYC 2319	X	X	X	X	X		X	X
	SOCI 1301	X	X					X	X
	SOCI 1306	X	X	X	X	X	X	X	X
	SOCW 2361	X	X	X	X	X		X	X
Institutional Option									
	DANC 1112	X	X	X	X	X	X	X	X
	DANC 1113	X	X	X	X	X	X	X	X
	DANC 1128	X	X	X	X	X	X	X	X
	DANC 1129	X	X	X	X	X	X	X	X
	DANC 1141	X		X		X	X	X	
	DANC 1142	X		X		X	X	X	
	DANC 1145	X		X		X	X	X	
	DANC 1146	X		X		X	X	X	
	DANC 1147	X		X		X	X	X	
	DANC 1148	X		X		X	X	X	
	DANC 1149	X	X	X		X	X	X	
	DANC 1150	X	X	X		X	X	X	
	DANC 1151	X	X	X	X	X	X	X	X
	DANC 1152	X	X	X	X	X	X	X	X
	DANC 1301	X	X	X	X	X	X	X	X
	DANC 2112	X	X	X	X	X	X	X	X
	DANC 2145	X	X	X	X	X	X	X	X
	DANC 2146	X	X	X	X	X	X	X	X
	DANC 2149	X	X	X		X	X	X	
	DANC 2150	X	X	X		X	X	X	
	DANC 2151	X	X	X	X	X	X	X	X

Component Area	Course	Perspective #1	Perspective #2	Perspective #3	Perspective #4	Perspective #5	Perspective #6	Perspective #7	Perspective #8
	DANC 2246	X	X	X	X	X	X	X	X
	DANC 2303	X	X	X		X	X	X	X
	KINE 1101	X	X	X	X	X	X	X	X
	KINE 1102	X	X	X	X	X	X	X	X
	KINE 1103	X	X	X	X	X	X	X	X
	KINE 1104	X	X	X	X	X	X	X	X
	KINE 1106	X	X	X	X	X	X	X	X
	KINE 1110	X	X	X	X	X	X	X	X
	KINE 1111	X	X	X	X	X	X	X	X
	KINE 1112	X	X	X	X	X	X	X	X
	KINE 1113	X	X	X	X	X	X	X	X
	KINE 1115	X	X	X	X	X	X	X	X
	KINE 1120	X	X	X	X	X	X	X	X
	KINE 1121	X	X	X	X	X	X	X	X
	KINE 1123	X	X	X	X	X	X	X	X
	KINE 1124	X	X	X	X	X	X	X	X
	KINE 1125	X	X	X	X	X	X	X	X
	KINE 1127	X	X	X	X	X	X	X	X
	KINE 1131	X	X	X	X	X	X	X	X
	KINE 1132	X	X	X	X	X	X	X	X
	KINE 1136	X	X	X	X	X	X	X	X
	KINE 1140	X	X	X	X	X	X	X	X
	KINE 1150	X	X	X	X	X	X	X	X
	KINE 1153	X	X	X	X	X	X	X	X
	KINE 1154	X	X	X	X	X	X	X	X
	KINE 1156	X	X	X	X	X	X	X	X
	KINE 1160	X	X	X	X	X	X	X	X
	KINE 1175	X	X	X	X	X	X	X	X
	KINE 1176	X	X	X	X	X	X	X	X
	KINE 1178	X	X	X	X	X	X	X	X
	KINE 1179	X	X	X	X	X	X	X	X
	KINE 1180	X	X	X	X	X	X	X	X
	KINE 1182	X	X	X	X	X	X	X	X
	KINE 1184	X	X	X	X	X	X	X	X
	KINE 1238	X	X	X	X	X	X	X	X
	KINE 1301	X	X	X	X	X	X	X	X
	KINE 1306	X	X	X	X	X	X	X	X
	KINE 1308	X	X	X	X	X	X	X	X
	KINE 1321	X	X	X	X	X	X	X	X
	KINE 1322	X	X	X	X	X	X	X	X
	KINE 1331	X	X	X	X	X	X	X	X
	KINE 1338	X	X	X	X	X	X	X	X
	KINE 1346	X	X	X	X	X	X	X	X
	KINE 2101	X	X	X	X	X	X	X	X
	KINE 2103	X	X	X	X	X	X	X	X

Component Area	Course	Perspective #1	Perspective #2	Perspective #3	Perspective #4	Perspective #5	Perspective #6	Perspective #7	Perspective #8
	KINE 2106	X	X	X	X	X	X	X	X
	KINE 2110	X	X	X	X	X	X	X	X
	KINE 2115	X	X	X	X	X	X	X	X
	KINE 2120	X	X	X	X	X	X	X	X
	KINE 2123	X	X	X	X	X	X	X	X
	KINE 2124	X	X	X	X	X	X	X	X
	KINE 2125	X	X	X	X	X	X	X	X
	KINE 2127	X	X	X	X	X	X	X	X
	KINE 2131	X	X	X	X	X	X	X	X
	KINE 2136	X	X	X	X	X	X	X	X
	KINE 2147	X	X	X	X	X	X	X	X
	KINE 2148	X	X	X	X	X	X	X	X
	KINE 2149	X	X	X	X	X	X	X	X
	KINE 2150	X	X	X	X	X	X	X	X
	KINE 2154	X	X	X	X	X	X	X	X
	KINE 2156	X	X	X	X	X	X	X	X
	KINE 2176	X	X	X	X	X	X	X	X
	KINE 2178	X	X	X	X	X	X	X	X
	KINE 2179	X	X	X	X	X	X	X	X
	KINE 2180	X	X	X	X	X	X	X	X
	KINE 2182	X	X	X	X	X	X	X	X
	KINE 2184	X	X	X	X	X	X	X	X

Component Area	Course	Communication #1	Communication #2	Communication #3	Communication #4	Communication #5	Communication #6
		To understand and demonstrate writing and speaking processes through invention, organization, drafting, revision, editing, and presentation.	To understand the importance of specifying audience and purpose and to select appropriate communication choices.	To understand and appropriately apply modes of expression, i.e., description expository, narrative, scientific, and self-expressive, in written, visual, and oral communication.	To participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding.	To understand and apply basic principles of critical thinking, problem solving and technical proficiency in the development of exposition and argument.	To develop the ability to research and write a documented paper and/or to give an oral presentation.
Communication							
	ENGL 1301	X	X	X	X	X	X
	ENGL 1302	X	X	X	X	X	X
	SPCH 1311	X	X	X	X	X	X
	SPCH 1315	X	X	X	X	X	X
	SPCH 1318	X	X	X	X	X	X
	SPCH 1321	X	X	X	X	X	X

Component Area	Course	Math #1	Math #2	Math #3	Math #4	Math #5	Math #6	Math #7
		To apply arithmetic, algebraic, geometric, higher order thinking, and statistical methods to modeling and solving real-world situations.	To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.	To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.	To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.	To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.	To recognize the limitations of mathematical and statistical models.	To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.
Math								
	MATH 1314	X	X	X	X	X	X	X
	MATH 1316	X	X	X	X	X	X	X
	MATH 1324	X	X	X	X	X	X	X
	MATH 1325	X	X	X	X	X	X	X
	MATH 1332	X	X	X	X	X	X	X
	MATH 1348	X	X	X	X	X	X	X
	MATH 1350	X	X	X	X	X	X	X
	MATH 1351	X	X	X	X	X	X	X
	MATH 1414	X	X	X	X	X	X	X
	MATH 2318	X	X	X	X	X	X	X
	MATH 2320	X	X	X	X	X	X	X
	MATH 2412	X	X	X	X	X	X	X
	MATH 2413	X	X	X	X	X	X	X
	MATH 2414	X	X	X	X	X	X	X
	MATH 2415	X	X	X	X	X	X	X

Component Area	Course	Natural Sciences #1	Natural Sciences #2	Natural Sciences #3	Natural Sciences #4	Natural Sciences #5
		To understand and apply methods and appropriate technology to the study of natural sciences.	To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.	To identify and recognize the differences among competing scientific theories.	To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.	To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.
Natural Sciences						
	BIOL 1308	X	X	X	X	X
	BIOL 1322	X	X	X	X	X
	BIOL 1406	X	X	X	X	X
	BIOL 1407	X	X	X	X	X
	BIOL 1408	X	X	X	X	X
	BIOL 1409	X	X	X	X	X
	BIOL 1411	X	X	X	X	X
	BIOL 1413	X	X	X	X	X
	BIOL 2106	X		X		
	BIOL 2301	X	X	X	X	X
	BIOL 2306		X		X	X
	BIOL 2389	X	X	X	X	X
	BIOL 2401	X	X	X	X	X
	BIOL 2402	X	X	X	X	X
	BIOL 2406	X	X	X	X	X
	BIOL 2416	X	X	X	X	X
	BIOL 2420	X	X	X	X	X
	BIOL 2421	X	X	X	X	X
	CHEM 1311	X	X	X	X	X
	CHEM 1111	X	X	X	X	
	CHEM 1312	X	X	X		X
	CHEM 1112	X	X	X	X	
	CHEM 1405	X	X	X	X	X
	CHEM 1407	X	X	X	X	X
	CHEM 2323	X	X		X	X
	CHEM 2223	X	X		X	X
	CHEM 2325	X	X		X	X
	CHEM 2225	X	X		X	X
	GEOG 1301	X	X	X	X	X
	GEOL 1305	X	X	X	X	X
	GEOL 1345	X	X	X	X	X
	GEOL 1401	X	X	X	X	X
	GEOL 1402	X	X	X	X	X
	GEOL 1403	X	X	X	X	X

Appendix A.2

		Humanities: Visual and Performing Arts	Humanities: Visual and Performing Arts	Humanities: Visual and Performing Arts	Humanities: Visual and Performing Arts	Humanities: Visual and Performing Arts	Humanities: Visual and Performing Arts	Humanities: Visual and Performing Arts
		To demonstrate awareness of the scope and variety of works in the arts and humanities.	To understand those works as expressions of individual and human values within an historical and social context.	To respond critically to works in the arts and humanities.	To engage in the creative process or interpretive performance and comprehend the physical and intellectual demands required of the author or visual or performing artist.	To articulate an informed personal reaction to works in the arts and humanities.	To develop an appreciation for the aesthetic principles that guide or govern the humanities and arts.	To demonstrate knowledge of the influence of literature, philosophy, and/or the arts on intercultural experiences.
Visual & Performing Arts								
	ARTS 1301	X	X	X	X	X	X	X
	ARTS 1303	X	X	X	X	X	X	X
	ARTS 1304	X	X	X	X	X	X	X
	ARTS 1316	X	X	X	X	X	X	X
	ARTS 2316	X	X	X	X	X	X	X
	ARTS 2326	X	X	X	X	X	X	X
	ARTS 2346	X	X	X	X	X	X	X
	ARTS 2348	X	X	X	X	X	X	X
	ARTS 2356	X	X	X	X	X	X	X
	DANC 2303	X	X	X	X	X	X	
	DRAM 1310	X	X	X	X	X	X	
	HUMA 1311	X	X		X	X	X	
	MUSI 1301	X	X	X	X	X	X	X
	MUSI 1310	X	X	X	X	X	X	X
Humanities								
	ENGL 2307	X	X	X	X	X	X	X
	ENGL 2311	X	X	X	X	X	X	X
	ENGL 2322	X	X	X	X	X	X	X
	ENGL 2323	X	X	X	X	X	X	X
	ENGL 2327	X	X	X	X	X	X	X
	ENGL 2328	X	X	X	X	X	X	X
	ENGL 2332	X	X	X	X	X	X	X
	ENGL 2333	X	X	X	X	X	X	X
	ENGL 2341	X	X	X	X	X	X	X
	ENGL 2351	X	X	X	X	X	X	X
	ENGL 2375	X	X	X	X	X	X	X
	HIST 2321	X	X	X	X	X	X	X
	HIST 2322	X	X	X	X	X	X	X

Appendix A.2

	HUMA 1301	X	X	X	X	X	X	X
	HUMA 1302	X	X	X	X	X	X	X
	HUMA 1305	X	X	X	X	X	X	X
	HUMA 2323	X	X	X	X	X	X	X
	PHIL 1301	X	X	X		X	X	X
	PHIL 1304	X	X	X	X	X	X	X
	PHIL 2303	X	X	X		X	X	X
	PHIL 2306	X	X	X	X	X	X	X
	SGNL 1301	X	X	X	X	X	X	X
	SGNL 1302	X	X	X	X	X	X	X
	SPAN 1411	X	X	X	X	X	X	X
	SPAN 1412	X	X	X	X	X	X	X
	SPAN 2311	X	X	X	X	X	X	X
	SPAN 2312	X	X	X	X	X	X	X

Appendix A.2

[illegible]

Appendix A.2

	HIST 2322	X	X	X	X	X	X	X	X	X	X
	HIST 2323	X	X	X	X	X	X	X	X	X	X
	HIST 2327	X	X	X	X	X	X	X	X	X	X
	HIST 2328	X	X	X	X	X	X	X	X	X	X
	HIST 2381	X	X	X	X	X	X	X	X	X	X
	PSYC 2301	X	X	X	X	X		X	X	X	
	PSYC 2306	X	X	X	X	X			X	X	X
	PSYC 2308	X	X	X	X	X	X		X	X	X
	PSYC 2314	X	X	X	X	X			X	X	X
	PSYC 2316	X	X	X	X	X			X	X	X
	PSYC 2319	X		X	X	X					
	SOCI 1301	X	X	X	X						
	SOCI 1306	X	X	X	X	X			X	X	X
	SOCW 2361	X	X	X	X	X			X	X	X

[illegible]

X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
	X
	X
X	X
X	X

Component Area	Course	Kinesiology # 1	Kinesiology # 2	Kinesiology # 3	Kinesiology # 4	Kinesiology # 5
		To familiarize the student with basic concepts to promote health-related skill and fitness components.	To represent and understand the relationship between physical health and nutrition.	To recognize body systems and their inter-relationship to health and disease.	To develop a sense of personal responsibility through healthy activities.	To instill a sense of competence and personal power regarding a student's own personal health.
Dance						
	DANC 1112	X	X	X	X	X
	DANC 1113	X	X	X	X	X
	DANC 1128	X	X	X	X	X
	DANC 1129	X	X	X	X	X
	DANC 1141	X	X	X	X	X
	DANC 1142	X	X	X	X	X
	DANC 1145	X	X	X	X	X
	DANC 1146	X	X	X	X	X
	DANC 1147	X	X	X	X	X
	DANC 1148	X	X	X	X	X
	DANC 1149	X	X	X	X	X
	DANC 1150	X	X	X	X	X
	DANC 1151	X	X	X	X	X
	DANC 1152	X	X	X	X	X
	DANC 1301	X	X	X	X	X
	DANC 2112	X	X	X	X	X
	DANC 2145	X	X	X	X	X
	DANC 2146	X	X	X	X	X
	DANC 2149	X	X	X	X	X
	DANC 2150	X	X	X	X	X
	DANC 2151	X	X	X	X	X
	DANC 2152	X	X	X	X	X
	DANC 2246	X	X	X	X	X
	DANC 2303	X	X	X	X	X

Appendix A.2

Component Area	Course	Kinesiology # 1	Kinesiology # 2	Kinesiology # 3	Kinesiology # 4	Kinesiology # 5
		To familiarize the student with basic concepts to promote health-related skill and fitness	To represent and understand the relationship between physical health and nutrition.	To recognize body systems and their inter-relationship to health and disease.	To develop a sense of personal responsibility through healthy activities.	To instill a sense of competence and personal power regarding a student's own personal health.
Kinesiology						
	KINE 1101	X	X	X	X	X
	KINE 1102	X	X	X	X	X
	KINE 1103	X	X	X	X	X
	KINE 1104	X	X	X	X	X
	KINE 1106	X	X	X	X	X
	KINE 1110	X	X	X	X	X
	KINE 1111	X	X	X	X	X
	KINE 1112	X	X	X	X	X
	KINE 1113	X	X	X	X	X
	KINE 1115	X	X	X	X	X
	KINE 1120	X	X	X	X	X
	KINE 1121	X	X	X	X	X
	KINE 1123	X	X	X	X	X
	KINE 1124	X	X	X	X	X
	KINE 1125	X	X	X	X	X
	KINE 1127	X	X	X	X	X
	KINE 1131	X	X	X	X	X
	KINE 1132	X	X	X	X	X
	KINE 1136	X	X	X	X	X
	KINE 1140	X	X	X	X	X
	KINE 1150	X	X	X	X	X
	KINE 1153	X	X	X	X	X
	KINE 1154	X	X	X	X	X
	KINE 1156	X	X	X	X	X
	KINE 1175	X	X	X	X	X
	KINE 1176	X	X	X	X	X
	KINE 1178	X	X	X	X	X

Appendix A.2

	KINE 1179	X	X	X	X	X
	KINE 1180	X	X	X	X	X
	KINE 1182	X	X	X	X	X
	KINE 1184	X	X	X	X	X
	KINE 1238	X	X	X	X	X
	KINE 1301	X	X	X	X	X
	KINE 1306	X	X	X	X	X
	KINE 1308	X	X	X	X	X
	KINE 1321	X	X	X	X	X
	KINE 1322	X	X	X	X	X
	KINE 1331	X	X	X	X	X
	KINE 1338	X	X	X	X	X
	KINE 1346	X	X	X	X	X
	KINE 2101	X	X	X	X	X
	KINE 2103	X	X	X	X	X
	KINE 2106	X	X	X	X	X
	KINE 2110	X	X	X	X	X
	KINE 2115	X	X	X	X	X
	KINE 2120	X	X	X	X	X
	KINE 2123	X	X	X	X	X
	KINE 2124	X	X	X	X	X
	KINE 2125	X	X	X	X	X
	KINE 2127	X	X	X	X	X
	KINE 2131	X	X	X	X	X
	KINE 2136	X	X	X	X	X
	KINE 2147	X	X	X	X	X
	KINE 2148	X	X	X	X	X
	KINE 2149	X	X	X	X	X
	KINE 2150	X	X	X	X	X
	KINE 2154	X	X	X	X	X
	KINE 2156	X	X	X	X	X
	KINE 2178	X	X	X	X	X
	KINE 2179	X	X	X	X	X
	KINE 2180	X	X	X	X	X
	KINE 2182	X	X	X	X	X
	KINE 2184	X	X	X	X	X

Comparison of Palo Alto College Core Courses in 2004 to Alamo Colleges Core Courses 2009 – Appendix B

Palo Alto Core Courses 2004	Core Courses dropped from the 2004 core in the 2009 core	Alamo Colleges Core Courses 2009	Core Courses added 2009 from PAC 2004 Core
Communication		Communication	
Engl 1301		Engl 1301	
Engl 1302		Engl 1302	
Spch 1311		Spch 1311	
		Spch 1315	Spch 1315
Spch 1318		Spch 1318	
Spch 1321		Spch 1321	
Spch 2341	Spch 2341		
Mathematics		Mathematics	
Math 1314		Math 1314	
Math 1316		Math 1316	
Math 1324		Math 1324	
Math 1325		Math 1325	
Math 1332		Math 1332	
Math 1348		Math 1348	
		Math 1350	Math 1350
		Math 1351	Math 1351
		Math 1414	Math 1414
Math 1442		Math 1442	
Math 2318		Math 2318	
Math 2320		Math 2320	
Math 2412		Math 2412	
Math 2413		Math 2413	
Math 2414		Math 2414	
Math 2415		Math 2415	
Natural Sciences		Natural Sciences	
		Biol 1308	Biol 1308
		Biol 1332	Biol 1332
Biol 1406		Biol 1406	
Biol 1407		Biol 1407	
Biol 1408		Biol 1408	

Comparison of Palo Alto College Core Courses in 2004 to Alamo Colleges Core Courses 2009 – Appendix B

Palo Alto Core Courses 2004	Core Courses dropped from the 2004 core in the 2009 core	Alamo Colleges Core Courses 2009	Core Courses added 2009 from PAC 2004 Core
Biol 1409		Biol 1409	
Biol 1411		Biol 1411	
Biol 1413		Biol 1413	
Biol 2106		Biol 2106	
		Biol 2301	Biol 2301
Biol 2306		Biol 2306	
		Biol 2389	Biol 2389
Biol 2401		Biol 2401	
Biol 2402		Biol 2402	
		Biol 2404	Biol 2404
		Biol 2406	Biol 2406
		Biol 2416	Biol 2416
		Biol 2420	Biol 2420
		Biol 2421	Biol 2421
Chem 1311/1111		Chem 1311/1111	
Chem 1312/1112		Chem 1312/1112	
Chem 1405		Chem 1405	
Chem 1407		Chem 1407	
Envr 1301/1101	Envr 1301/1101		
		Geog 1301	Geog 1301
		Geol 1305	Geol 1305
		Geol 1345	Geol 1345
Geol 1401		Geol 1401	
Geol 1402		Geol 1402	
Geol 1403		Geol 1403	
Geol 1404		Geol 1404	
Geol 1445	Geol 1445		
Phys 1401		Phys 1401	
Phys 1402		Phys 1402	
Phys 1405		Phys 1405	
Phys 1407		Phys 1407	

Comparison of Palo Alto College Core Courses in 2004 to Alamo Colleges Core Courses 2009 – Appendix B

Palo Alto Core Courses 2004	Core Courses dropped from the 2004 core in the 2009 core	Alamo Colleges Core Courses 2009	Core Courses added 2009 from PAC 2004 Core
		Phys 2425	
		Phys 2426	
Humanities & Vis & Perf Arts		Humanities & Vis & Perf Arts	
Arts 1301		Arts 1301	
Arts 1303		Arts 1303	
Arts 1304		Arts 1304	
		Arts 1316	Arts 1316
		Arts 2316	Arts 2316
		Arts 2326	Arts 2326
		Arts 2346	Arts 2346
		Arts 2348	Arts 2348
		Danc 1305	Danc 1305
Danc 2303		Danc 2303	
Dram 1310		Dram 1310	
		Engl 2307	Engl 2307
Engl 2322		Engl 2322	
Engl 2323		Engl 2323	
Engl 2327		Engl 2327	
Engl 2328		Engl 2328	
Engl 2332		Engl 2332	
Engl 2333		Engl 2333	
		Engl 2341	Engl 2341
		Engl 2351	Engl 2351
Engl 2373	Engl 2373		
		Engl 2375	Engl 2375
		Fren 1411	Fren 1411
		Fren 1412	Fren 1412
		Fren 2311	Fren 2311
		Fren 2312	Fren 2312
		Germ 1411	Germ 1411
		Germ 1412	Germ 1412

Comparison of Palo Alto College Core Courses in 2004 to Alamo Colleges Core Courses 2009 – Appendix B

Palo Alto Core Courses 2004	Core Courses dropped from the 2004 core in the 2009 core	Alamo Colleges Core Courses 2009	Core Courses added 2009 from PAC 2004 Core
		Germ 2311	Germ 2311
		Germ 2312	Germ 2312
		Hist 2321	Hist 2321
		Hist 2322	Hist 2322
Huma 1301		Huma 1301	
Huma 1302		Huma 1302	
		Huma 1305	Huma 1305
		Huma 1311	Huma 1311
		Huma 2323	Huma 2323
Idst 2377	Idst 2377		
		Lati 2311	Lati 2311
		Lati 2312	Lati 2312
Musi 1306		Musi 1306	
Musi 1310		Musi 1310	
Phil 1301		Phil 1301	
Phil 1304		Phil 1304	
Phil 2303		Phil 2303	
Phil 2306		Phil 2306	
Phil 2371	Phil 2371		
		Sgnl 1301	Sgnl 1301
		Sgnl 1302	Sgnl 1302
		Span 1300	Span 1300
		Span 1310	Span 1310
		Span 1411	Span 1411
		Span 1412	Span 1412
Span 2311		Span 2311	
Span 2312		Span 2312	
		Span 2316	Span 2316
		Span 2317	Span 2317

Comparison of Palo Alto College Core Courses in 2004 to Alamo Colleges Core Courses 2009 – Appendix B

Palo Alto Core Courses 2004	Core Courses dropped from the 2004 core in the 2009 core	Alamo Colleges Core Courses 2009	Core Courses added 2009 from PAC 2004 Core
Social & Behavioral Sciences		Social & Behavioral Sciences	
Anth 2346		Anth 2346	
		Anth 2351	Anth 2351
Comm 1307		Comm 1307	
		Comm 2300	Comm 2300
Crij 1301		Crij 1301	
Crij 1307		Crij 1307	
		Econ 1301	Econ 1301
		Econ 1303	Econ 1303
Econ 2301		Econ 2301	
Econ 2302		Econ 2302	
		Econ 2311	Econ 2311
Geog 1301	Geog 1301		
Geog 1303		Geog 1303	
		Govt 2304	Govt 2304
Govt 2305		Govt 2305	
Govt 2306		Govt 2306	
		Govt 2311	Govt 2311
Hist 1301		Hist 1301	
Hist 1302		Hist 1302	
Hist 2301		Hist 2301	
Hist 2311		Hist 2311	
Hist 2312		Hist 2312	
Hist 2313		Hist 2313	
Hist 2314		Hist 2314	
Hist 2321		Hist 2321	
Hist 2322		Hist 2322	
Hist 2323		Hist 2323	
		Hist 2327	Hist 2327
		Hist 2328	Hist 2328

Comparison of Palo Alto College Core Courses in 2004 to Alamo Colleges Core Courses 2009 – Appendix B

Palo Alto Core Courses 2004	Core Courses dropped from the 2004 core in the 2009 core	Alamo Colleges Core Courses 2009	Core Courses added 2009 from PAC 2004 Core
Hist 2380	Hist 2380		
Hist 2381		Hist 2381	
Idst 1301	Idst 1301		
Idst 2370	Idst 2370		
Idst 2371	Idst 2371		
Idst 2372	Idst 2372		
Idst 2373	Idst 2373		
Psyc 2301		Psyc 2301	
Psyc 2306		Psyc 2306	
		Psyc 2307	Psyc 2307
Psyc 2308		Psyc 2308	
Psyc 2314		Psyc 2314	
Psyc 2316		Psyc 2316	
Psyc 2317	Psyc 2317		
Psyc 2319		Psyc 2319	
Psyc 2370	Psyc 2370		
Soci 1301		Soci 1301	
Soci 1306		Soci 1306	
Soci 2301	Soci 2301		
		Socw 2361	Socw 2361
Institutionally Designated Options		Institutionally Designated Options	
Biol 1322	Biol 1322		
All one hr. Phed/Kine/Danc Courses		All one hr. Kine/Danc Courses	
		Danc 1301	Danc 1301
		Danc 1305	Danc 1305
		Danc 2246	Danc 2246
		Danc 2303	Danc 2303
		Danc 2325	Danc 2325

Comparison of Palo Alto College Core Courses in 2004 to Alamo Colleges Core Courses 2009 – Appendix B

Palo Alto Core Courses 2004	Core Courses dropped from the 2004 core in the 2009 core	Alamo Colleges Core Courses 2009	Core Courses added 2009 from PAC 2004 Core
		Kine 1238	Kine 1238
		Kine 1301	Kine 1301
Kine 1304		Kine 1304	
Kine 1305		Kine 1305	
Kine 1306		Kine 1306	
		Kine 1308	Kine 1308
		Kine 1321	Kine 1321
		Kine 1322	Kine 1322
		Kine 1331	Kine 1331
		Kine 1338	Kine 1338
Kine 1346		Kine 1346	
		Kine 2356	Kine 2356
Cosc 1300	Cosc 1300		
Cosc 1301	Cosc 1301		

Appendix C

The Extent to Which the Palo Alto Core Curriculum is Consistent with the Texas Common Course Numbering System

The following table compares the course prefix and number of the Texas Common Course Numbering System (TCCNS) as delineated in the 2009 Lower Division Academic Course Guide Manual (ACGM) to the Palo Alto College core curriculum course prefix and number.

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
ENGL 1301	Composition I	ENGL 1301	Composition I
ENGL 1302	Composition II	ENGL 1302	Composition II
SPCH 1311	Introduction to Speech Communication	SPCH 1311	Introduction to Speech Communication
SPCH 1315	Public Speaking	SPCH 1315	Public Speaking
SPCH 1318	Interpersonal Communication	SPCH 1318	Interpersonal Communication
SPCH 1321	Business and Professional Communication	SPCH 1321	Business & Professional Communication
MATH 1314	College Algebra	MATH 1314	College Algebra
MATH 1316	Plane Trigonometry	MATH 1316	Plane Trigonometry
MATH 1324	Mathematics for Business and Social Sciences I	MATH 1324	Mathematics for Business & Social Sciences I
MATH 1325	Mathematics for Business and Social Sciences II (Business Calculus)	MATH 1325	Mathematics for Business & Social Sciences II (Business Calculus)
MATH 1332	Contemporary Math I (Math for Liberal Arts Majors I)	MATH 1332	Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1348	Analytic Geometry	MATH 1348	Analytic Geometry

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
MATH 1350	Fundamentals of Mathematics I for Teachers	MATH 1350	Fundamentals of Mathematics I
MATH 1351	Fundamentals of Mathematics I for Teachers II	MATH 1351	Fundamentals of Mathematics II
MATH 1414	College Algebra	MATH 1414	College Algebra
MATH 1442	Elementary Statistical Methods	MATH 1442	Elementary Statistical Methods
MATH 2318	Linear Algebra	MATH 2318	Linear Algebra
MATH 2320	Differential Equations	MATH 2320	Differential Equations
MATH 2412	Pre-calculus	MATH 2412	Pre-Calculus Math
MATH 2413	Calculus I	MATH 2413	Calculus I
MATH 2414	Calculus II	MATH 2414	Calculus II
MATH 2415	Calculus III	MATH 2415	Calculus III
BIOL 1308	Principles of Biology	BIOL 1308	Biology for Non-Science Majors I
BIOL 1322	Introduction to Nutrition	BIOL 1322	Nutrition & Diet Therapy I
BIOL 1406	Biology for Science Majors I	BIOL 1406	Biology for Science Majors I
BIOL 1407	Biology for Science Majors II	BIOL 1407	Biology for Science Majors II
BIOL 1408	Biology for Non-Science Majors I	BIOL 1408	Biology for Non-Science Majors I
BIOL 1409	Biology for Non-Science Majors II	BIOL 1409	Biology for Non-Science Majors II

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
BIOL 1411	General Botany	BIOL 1411	General Botany
BIOL 1413	General Zoology	BIOL 1413	General Zoology
BIOL 2106	Environmental Biology Laboratory	BIOL 2106	Environmental Biology
BIOL 2301	Principles of Anatomy and Physiology	BIOL 2301	Anatomy & Physiology I
BIOL 2306	Environmental Biology	BIOL 2306	Environmental Biology
BIOL 2389	Academic Cooperative for the Biological Sciences	BIOL 2389	Academic Cooperative
BIOL 2401	Human Anatomy and Physiology I	BIOL 2401	Anatomy & Physiology I
BIOL 2402	Human Anatomy and Physiology II	BIOL 2402	Anatomy & Physiology II
BIOL 2404	Human Anatomy and Physiology	BIOL 2404	Anatomy & Physiology
BIOL 2406	Environmental Biology	BIOL 2406	Environmental Biology
BIOL 2416	Genetics	BIOL 2416	Genetics
BIOL 2420	Microbiology and Pathology	BIOL 2420	Microbiology for Non-Science Majors
BIOL 2421	Microbiology	BIOL 2421	Microbiology for Science Majors
CHEM 1311	General Chemistry Lecture I	CHEM 1311	General Chemistry I
CHEM 1111	General Chemistry Laboratory I	CHEM 1111	General Chemistry I

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
CHEM 1312	General Chemistry Lecture II	CHEM 1312	General Chemistry II
CHEM 1112	General Chemistry Laboratory II	CHEM 1112	General Chemistry II
CHEM 1405	Introductory Chemistry I	CHEM 1405	Introductory Chemistry I
CHEM 1407	Introductory Chemistry II	CHEM 1407	Introductory Chemistry II
CHEM 2323	Organic Chemistry Lecture I	CHEM 2323	Organic Chemistry I
CHEM 2223	Organic Chemistry Laboratory I	CHEM 2223	Organic Chemistry Laboratory I
CHEM 2325	Organic Chemistry Lecture II	CHEM 2325	Organic Chemistry II
CHEM 2225	Organic Chemistry Laboratory II	CHEM 2225	Organic Chemistry Laboratory II
GEOG 1301	Physical Geography	GEOG 1301	Physical Geography
GEOL 1305	Environmental Geology Lecture	GEOL 1305	Environmental Geology
GEOL 1345	Oceanography	GEOL 1345	Oceanography
GEOL 1401	Earth Sciences I	GEOL 1401	Earth Sciences I
GEOL 1402	Earth Sciences II	GEOL 1402	Earth Sciences II
GEOL 1403	Physical Geology	GEOL 1403	Physical Geology
GEOL 1404	Historical Geology	GEOL 1404	Historical Geology
PHYS 1401	General Physics I	PHYS 1401	College Physics I
PHYS 1402	General Physics II	PHYS 1402	College Physics II

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
PHYS 1405	Introductory Physics I	PHYS 1405	Elementary Physics I
PHYS 1407	Introductory Physics II	PHYS 1407	Elementary Physics II
PHYS 2425	University Physics I	PHYS 2425	University Physics I
PHYS 2426	University Physics II	PHYS 2426	University Physics II
ENGL 2307	Creative Writing	ENGL 2307	Creative Writing I
ENGL 2322	British Lit I: Anglo Saxon through Neoclassical	ENGL 2322	British Literature I
ENGL 2323	British Lit II: Romanticism to the Present	ENGL 2323	British Literature II
ENGL 2327	American Lit I: Pre-colonial through the Romantic Period	ENGL 2327	American Literature I
ENGL 2328	American Lit II: Realism to the Present	ENGL 2328	American Literature II
ENGL 2332	World Lit I: Antiquity through the Renaissance	ENGL 2332	World Literature I
ENGL 2333	World Lit II: Neoclassical to the Present	ENGL 2333	World Literature II
ENGL 2341	Forms of Literature	ENGL 2341	Forms of Literature
ENGL 2351	Mexican-American Literature	ENGL 2351	Mexican-American Literature
ENGL 2375	Literature for Children and Adolescents		

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
FREN 1411	Elementary French I	FREN 1411	Beginning French I
FREN 1412	Elementary French II	FREN 1412	Beginning French II
FREN 2311	Intermediate French I	FREN 2311	Intermediate French I
FREN 2312	Intermediate French II	FREN 2312	Intermediate French II
GERM 1411	Elementary German I	GERM 1411	Beginning German I
GERM 1412	Elementary German II	GERM 1412	Beginning German II
GERM 2311	Intermediate German I	GERM 2311	Intermediate German I
GERM 2312	Intermediate German II	GERM 2312	Intermediate German II
HIST 2321	World Civilizations I	HIST 2321	World Civilizations I
HIST 2322	World Civilizations II	HIST 2322	World Civilizations II
HUMA 1301	Introduction to the Humanities I	HUMA 1301	Introduction to the Humanities I
HUMA 1302	Introduction to the Humanities II	HUMA 1302	Introduction to the Humanities II
HUMA 1305	Introduction to Mexican-American Studies	HUMA 1305	Introduction to Mexican-American Studies
HUMA 2323	World Cultures	HUMA 2323	World Cultures
LATI 2311	Intermediate Latin I	LATI 2311	Intermediate Latin I
LATI 2312	Intermediate Latin II	LATI 2312	Intermediate Latin II

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
PHIL 1301	Introduction to Philosophy	PHIL 1301	Introduction to Philosophy
PHIL 1304	Introduction to World Religions	PHIL 1304	Introduction to World Religions
PHIL 2303	Introduction to Logic	PHIL 2303	Introduction to Logic
PHIL 2306	Introduction to Ethics	PHIL 2306	Introduction to Ethics
SGNL 1301	American Sign Language I	SGNL 1301	Beginning American Sign Language I
SGNL 1302	American Sign Language II	SGNL 1302	Beginning American Sign Language II
SPAN1300	Beginning Conversational Spanish I	SPAN 1300	Beginning Spanish Conversation I
SPAN 1310	Beginning Conversational Spanish II	SPAN 1310	Beginning Spanish Conversation II
SPAN 1411	Elementary Spanish I	SPAN 1411	Beginning Spanish I
SPAN 1412	Elementary Spanish II	SPAN 1412	Beginning Spanish II
SPAN 2311	Intermediate Spanish I	SPAN 2311	Intermediate Spanish I
SPAN 2312	Intermediate Spanish II	SPAN 2312	Intermediate Spanish II
SPAN 2316	Career Spanish I	SPAN 2316	Career Spanish I
SPAN 2317	Career Spanish II	SPAN 2317	Career Spanish II
ARTS 1301	Art Appreciation	ARTS 1301	Art Appreciation
ARTS 1303	Art History I	ARTS 1303	Art History I
ARTS 1304	Art History II	ARTS 1304	Art History II
ARTS 1316	Drawing I	ARTS 1316	Drawing I

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
ARTS 2316	Painting I	ARTS 2316	Painting I
ARTS 2326	Sculpture I	ARTS 2326	Sculpture I
ARTS 2346	Ceramics I	ARTS 2346	Ceramics I
ARTS 2348	Digital Art I	ARTS 2348	Digital Art I
ARTS 2356	Photography I (fine arts emphasis)	ARTS 2356	Photography I
DANC 1305	World Dance	DANC 1305	World Dance I
DANC 2303	Dance Appreciation	DANC 2303	Dance Appreciation I
DRAM 1310	Introduction to Theatre – Theatre Appreciation	DRAM 1310	Introduction to Theater
HUMA 1311	Mexican-American Fine Arts Appreciation	HUMA 1311	Mexican-American Fine Arts Appreciation
MUSI 1306	Music Appreciation	MUSI 1306	Music Appreciation
MUSI 1310	American Music	MUSI 1310	American Music
HIST 1301	US History I	HIST 1301	United States History I
HIST 1302	US History II	HIST 1302	United States History II
HIST 2327	Mexican-American History I	HIST 2327	Mexican-American History I
HIST 2328	Mexican-American History II	HIST 2328	Mexican-American History II
HIST 2301	Texas History	HIST 2301	Texas History
GOVT 2305	National Government	GOVT 2305	Federal Government
GOVT 2306	State Government	GOVT 2306	Texas Government
ANTH 2346	General Anthropology	ANTH 2346	General Anthropology
ANTH 2351	Cultural Anthropology	ANTH 2351	Cultural Anthropology

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
COMM 1307	Introduction to Mass Communications	COMM 1307	Introduction to Mass Communication
COMM 2300	Media Literacy	COMM 2300	Media Literacy
CRIJ 1301	Introduction to Criminal Justice	CRIJ 1301	Introduction to Criminal Justice
CRIJ 1307	Crime in America	CRIJ 1307	Crime in America
ECON 1301	Introduction to Economics	ECON 1301	Introduction to Economics
ECON 1303	Consumer Economics	ECON 1303	Consumer Economics
ECON 2301	Principles of Macroeconomics	ECON 2301	Principles of Macroeconomics
ECON 2302	Principles of Microeconomics	ECON 2302	Principles of Microeconomics
ECON 2311	Economic Geography and Global Issues	ECON 2311	Economic Geography
GEOG 1303	World Regional Geography	GEOG 1303	World Regional Geography
GOVT 2304	Introduction to Political Science	GOVT 2304	Introduction to Political Science
GOVT 2311	Mexican-American Politics	GOVT 2311	Mexican-American Politics
HIST 2311	Western Civilization I	HIST 2311	Western Civilization I
HIST 2312	Western Civilization II	HIST 2312	Western Civilization II
HIST 2313	History of England I	HIST 2313	History of England I
HIST 2314	History of England II	HIST 2314	History of England II

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
HIST 2323	Eastern Civilizations	HIST 2323	Eastern Civilizations
HIST 2381	African-American History	HIST 2381	African-American History
PSYC 2301	General Psychology	PSYC 2301	General Psychology
PSYC 2306	Human Sexuality	PSYC 2306	Human Sexuality
PSYC 2307	Adolescent Psychology I	PSYC 2307	Adolescent Psychology I
PSYC 2308	Child Psychology	PSYC 2308	Child Psychology
PSYC 2314	Lifespan Growth and Development	PSYC 2314	Lifespan Growth & Development
PSYC 2316	Psychology of Personality	PSYC 2316	Psychology of Personality
PSYC 2319	Social Psychology	PSYC 2319	Social Psychology
SOCI 1301	Introductory Sociology	SOCI 1301	Introductory Sociology
SOCI 1306	Social Problems	SOCI 1306	Social Problems
SOCW 2361	Introduction to Social Work	SOCW 2361	Introduction to Social Work
DANC 1112	Dance Practicum I	DANC 1112	Dance Practicum I
DANC 1113	Dance Practicum II	DANC 1113	Dance Practicum II
DANC 1122	Folk I	DANC 1122	Folk I
DANC 1128	Ballroom I	DANC 1128	Ballroom I
DANC 1129	Ballroom II	DANC 1129	Ballroom II
DANC 1141	Ballet I	DANC 1141	Ballet I
DANC 1142	Ballet II	DANC 1142	Ballet II

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
DANC 1145	Modern Dance I	DANC 1145	Modern Dance I
DANC 1146	Modern Dance II	DANC 1146	Modern Dance II
DANC 1147	Jazz Dance I	DANC 1147	Jazz Dance I
DANC 1148	Jazz Dance II	DANC 1148	Jazz Dance II
DANC 1149	Ballet Folklórico I	DANC 1149	Ballet Folklórico I
DANC 1150	Ballet Folklórico II	DANC 1150	Ballet Folklórico II
DANC 1151	Dance Performance I	DANC 1151	Dance Performance I
DANC 1152	Dance Performance II	DANC 1152	Dance Performance II
DANC 1153	Spanish Ballet I (Flamenco)	DANC 1153	Spanish Ballet I
DANC 1154	Spanish Ballet II (Flamenco)	DANC 1154	Spanish Ballet II
DANC 1301	Dance Composition I	DANC 1301	Dance Composition
DANC 1305	World Dance	DANC 1305	World Dance I
DANC 2110	Tap III	DANC 2110	Tap III
DANC 2111	Tap IV	DANC 2111	Tap IV
DANC 2112	Dance Practicum III	DANC 2112	Dance Practicum III
DANC 2122	Folk III	DANC 2122	Folk III
DANC 2141	Ballet III	DANC 2141	Ballet III
DANC 2145	Modern Dance III	DANC 2145	Modern Dance III
DANC 2146	Modern Dance IV	DANC 2146	Modern Dance IV
DANC 2147	Jazz Dance III	DANC 2147	Jazz Dance III
DANC 2148	Jazz Dance IV	DANC 2148	Jazz Dance IV

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
DANC 2149	Ballet Folklorico III	DANC 2149	Ballet Folklorico III
DANC 2150	Ballet Folklorico IV	DANC 2150	Ballet Folklorico IV
DANC 2151	Dance Performance III	DANC 2151	Dance Performance III
DANC 2152	Dance Performance IV	DANC 2152	Dance Performance IV
DANC 2153	Flamenco III	DANC 2153	Spanish Ballet III
DANC 2154	Flamenco IV	DANC 2154	Spanish Ballet IV
DANC2246	Modern Dance IV	DANC 2246	Modern Dance IV
DANC 2303	Dance Appreciation	DANC 2303	Dance Appreciation I
DANC 2325	Anatomy and Kinesiology for Dancers	DANC 2325	Anatomy & Kinesiology for Dance
KINE 1101	Aerobics I		
KINE 1102	Cardio Combo I		
KINE 1103	Cardio Kickboxing I		
KINE 1104	Hi-Lo Aerobic Dance		
KINE 1106	Step Aerobics I		
KINE 1110	Basketball I		
KINE 1111	Basketball II		
KINE 1112	Flag Football I		
KINE 1113	Soccer I		
KINE 1115	Volleyball I		
KINE 1120	Badminton I		
KINE 1121	Bowling I		
KINE 1123	Fencing I		
KINE 1124	Fencing II		
KINE 1125	Golf I		

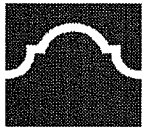
Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
KINE 1127	Tennis I		
KINE 1131	Pilates I		
KINE 1132	Self Defense		
KINE 1136	Yoga I		
KINE 1140	Camping and Backpacking I		
KINE 1150	Aquatic Conditioning I		
KINE 1153	Lifeguard Training	PHED 1153	Lifeguard Training
KINE1154	Swimming I		
KINE 1156	Water Aerobics I		
KINE 1160	Ballet I		
KINE 1161	Ballet Folklórico I		
KINE 1162	Ballroom I		
KINE 1167	Folk I		
KINE 1168	Jazz I		
KINE 1169	Modern Dance I		
KINE 1170	Spanish Ballet I (Flamenco I)		
KINE 1171	Tap I		
KINE 1175	Adaptive Physical Conditioning I		
KINE 1176	Cardio Boot Camp I		
KINE 1178	Logging I		
KINE 1179	Physical Conditioning I		
KINE 1180	Spin Bike I		

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
KINE 1182	Walking I		
KINE 1184	Weight Training I		
KINE 1238	Concepts of Fitness and Wellness	PHED 1238	Introduction to Physical Fitness & Sport
KINE 1301	Foundations of Kinesiology	PHED 1301	Introduction to Physical Fitness & Sport
KINE 1304	Personal/Community Health I	PHED 1304	Personal/Community Health I (may also be single-semester course)
KINE 1305	Personal/Community Health II	PHED 1305	Personal/Community Health II
KINE 1306	First Aid	PHED 1306	First Aid (3 SCH version)
KINE 1308	Intramurals and Officiating	PHED 1308	Sports Officiating I
KINE 1321	Coaching I	PHED 1321	Coaching/Sports/Athletics I
KINE 1322	Coaching II	PHED 1322	Coaching/Sports/Athletics II
KINE 1331	Physical Education for Elementary Education Majors	PHED 1331	Physical Education for Elementary Education Majors
KINE 1138	Concepts of Fitness and Wellness		
KINE 1346	Drug Use and Abuse	PHED 1346	Drug Use & Abuse (3 SCH version)
KINE 2101	Aerobics II		
KINE 2103	Cardio Kickboxing II		
KINE 2106	Step Aerobics II		
KINE 2110	Basketball III		
KINE 2115	Volleyball II		
KINE 2120	Badminton II		

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
KINE 2123	Fencing III		
KINE 2124	Fencing IV		
KINE 2125	Golf II		
KINE 2127	Tennis II		
KINE 2131	Pilates II		
KINE 2136	Yoga II		
KINE 2147	Skills Analysis-Individual Activity		
KINE 2148	Skills Analysis-Dual Sports		
KINE 2149	Skills Analysis-Team Sports		
KINE 2150	Aquatic Conditioning II		
KINE 2154	Swimming II		
KINE 2156	Water Aerobics II	PHED 2156	Taping and Bandaging
KINE 2160	Ballet II		
KINE 2161	Ballet Folklorico II		
KINE 2162	Ballroom II		
KINE 2167	Folk II		
KINE 2168	Jazz Dance II		
KINE 2169	Modern Dance II		
KINE 2170	Spanish Ballet II (Flamenco)		
KINE 2176	Cardio Boot Camp II		
KINE 2178	Jogging II		
KINE 2179	Physical Conditioning II		

Palo Alto Core Course	Palo Alto Core Course Title	TCCNS Prefix and Number	ACGM Title
KINE 2180	Spin Bike II		
KINE 2182	Walking II		
KINE 2184	Weight Training II		
KINE 2356	Care and Prevention of Athletic Injuries	PHED 2356	Care and Prevention of Athletic Injuries

EXEMPLARY EDUCATIONAL OBJECTIVES --Appendix D



ALAMO
COLLEGES

PALO ALTO COLLEGE

Natural Sciences Exemplary Objectives					Discipline: Biology		
The objective of the study of a natural sciences component of a core curriculum is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the basis for building and testing theories.							
Identify exemplary objectives covered in each course by inserting the learning outcomes number from the syllabus that demonstrates inclusion.							
Learning Outcomes					Course Number	Course Title	Evidence
1	2	3	4	5			
2, 4, 12	2, 12	8, 9, 11	8, 11, 12	2, 4, 4, 5, 11	BIOL 1308	Principles of Biology	Exams, problems, essays
1>16	1>16	1>16	1>16	1>16	BIOL 1322	Introduction to Nutrition	project, group project, exams, final exam
2B,5B,7B,14B,15B	1A,7A,10A,19A,21A,1B,2B,7B,11B,14B,15B	7A,11A,14A,21A,22A	10A,14A,15A,18A,19A,20A,11B,13B,14B	14A,19A,20A,7B,10B,14B,15B	BIOL 1406	Biology for Science Majors I	Exams, Quizzes, Lab Homework Assignments, Lab Practicals, Research Paper
2B,6B,7B,8B,9B,11B	3A,4A,5A,7A,9A,3B,6B,7B,8B,9B,11B	2A,4A,5A,8A,10A,11A	7A,8A,9A,10A,11A,15B	3A,4A,5A,7A,8A,9A,11A,6B,6B,8B,9B,10B,11B,14B,15B	BIOL 1407	Biology for Science Majors II	Exams, Quizzes, Lab Homework Assignments, Lab Practicals, Research Paper
3-5B	3, 8, 15A; 1, 7B	3A	16A; 2B	3, 16A; 1B	BIOL 1408	Biol- Non-sci Maj I	Lecture Exams, Quizzes, Final Exam
7-18A; 1, 2, 7, 8, 10B	4, 12, 13, 21A;7, 8,	5, 21A	1, 3, 4, 7-18, 21A; 8, 10-	3-5, 7-18, 21A; 7, 8, 10, 11B	BIOL 1409	Biol- Non-sci Maj II	Lab Practicals, Quizzes, Lab Reports
				EXEMPLARY EDUCATIONAL OBJECTIVES			
				5 - To demonstrate knowledge of the interdependence of science and technology and their			
			4 - To demonstrate knowledge of the major issues and problems facing modern science, including issues that				
		3 - To identify and recognize the differences among competing scientific theories.					
	2 - To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to						
1- To understand and apply methods and appropriate technology to the study of natural sciences							

PALO ALTO COLLEGE

Natural Sciences Exemplary Objectives					Discipline: Biology Page 2		
The objective of the study of a natural sciences component of a core curriculum is to enable the student to understand, construct, and evaluate							
Identify exemplary objectives covered in each course by inserting the learning outcomes number from the							
Learning Outcomes					Course Number	Course Title	Evidence
1	2	3	4	5			
1A, 2A, 9A, 10, 15A, 19A, 20A, 4B, 8B, 13B, 15B	3A, 4A, 19A, 1B, 5B, 7B, 10B, 12B, 14B, 19B	3A10A, 11A, 17A, 18A, 19A, 2B, 7B, 10B, 12B,	3A, 11A, 19A, 20A8B, 10B, 12B, 14B	1A, 6A, 2A, 7A, 8A, 9A, 10A, 11A, 15A, 19A	BIOL 1411	General Botany	A = Lecture Syllabus, B = Lab Syllabus, Exams, essays, quizzes, practicums
2A, 11A, 1B, 4B, 5B, 8B, 10B	2B, 3B, 7B, 11B,	1A, 2A, 7A, 11A, 8B, 9B, 10B	1A, 2A, 7A, 11A8B, 9B, 10B	2A, 3A, 5A, 7A, 12A, 5B, 8B, 9B	BIOL 1413	General Zoology	A = Lecture Syllabus, B = Lab Syllabus, Exams, essays, quizzes, practicums
3		8			BIOL 2106	Environmental Biology Lab	Lab activities, quizzes, and lab exams.
1,2,3	2	3	3	3	BIOL 2301	Principles of Anatomy and Physiology	Projects, out of class assignments
	1		14	4	BIOL 2306	Environmental Biology	Homework assignments, quizzes, & major exams.
1, 2, 3, 6, 8, 10	1, 2, 10		1, 2, 3, 4, 6, 16	1, 2, 11, 13, 14, 16, 18	BIOL 2389	Academic Cooperative for the Biological Sciences	Exam, observations, project(s)
1,2,5,6,7,8,9, 10,1113,14,1 7,19	2,3,4,5,6,7,89, 13,17,18,19,2 0	3,5,6,7,8,11,1 4,17,18,19,20	6,7,17,19	1,2,6,7,8,9,10 ,11,12,13,14, 15,17,18,19,2 0	BIOL 2401	Human Anatomy and Physiology I	Lecture and laboratory quizzes and assignments; laboratory exercises; computer assignments
3,5,6,7,11,12, 13,14,17,20,2 3,29,32,33,37 ,38,40,41,43	4,5,8,15,16,17 ,18,21,2225,2 8,34,39,44	3,9,10,12,17, 18,25,28,31,3 4,43,44	5,18,21,23,3 1,38,3940,44	2,8,9,10,11,1 2,15,16,17,18 ,21,22,25,28, 31,34,36,41,4 2,43,44	BIOL 2402	Human Anatomy and Physiology II	Lecture and laboratory quizzes and assignments; laboratory exercises; computer assignments
EXEMPLARY EDUCATIONAL OBJECTIVES							
5 - To demonstrate knowledge of the interdependence of science and technology and their influence							
4 - To demonstrate knowledge of the major issues and problems facing modern science, including issues that							
3 - To identify and recognize the differences among competing scientific theories.							
2 - To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to							
1- To understand and apply methods and appropriate technology to the study of natural sciences.							

Natural Sciences Exemplary Objectives					Discipline: Biology Page 3		
The objective of the study of a natural sciences component of a core curriculum is to enable the student to understand, construct, and evaluate							
Identify exemplary objectives covered in each course by inserting the learning outcomes number from the							
Learning Outcomes					Course Number	Course Title	Evidence
1	2	3	4	5			
3,5,6,7,11,12,13,14,17,20,23,29,32,33,37,38,40,41,43	4,5,8,15,16,17,18,21,22,25,28,34,39,44	3,9,10,12,17,18,25,28,31,34,43,44	5,18,21,23,31,38,39,40,44	2,8,9,10,11,12,15,16,17,18,21,22,25,28,31,34,36,41,42,43,44	BIOL 2402	Human Anatomy and Physiology II	Lecture and laboratory quizzes and assignments; laboratory exercises; computer assignments
3	1	8	14	4	BIOL 2406	Environmental Biology	Homework assignments, quizzes, & major exams. Lab activities, quizzes, and lab
6A,17A,5B,23B,24B,28B,35B,37B,38B,39B,42B,50B	1A,5A,6A,16A,17A,19A,22A,2B,3B,5B,7B,8B,9B,32B,33B,35B,36B,45B,46B	1A,4A,8A,11A,13A,16A,19A,20A,21A,22A,40B	2A,4A,7A,9A,17A,18A,19A,22A,8B,32B,40B,42B,49B	1A,2A,12A,16A,17A,18A,19A,21A,8B,40B,42B,50B	BIOL 2416	Genetics	Exams, Quizzes, Lab Homework Assignments, Lab Practicals, Research Paper
1-15A, 1B-12B	1A, 4A, 5A, 9A, 11A, 13A, 3B, 5B, 7B, 8B, 9B, 10B	1A, 3A - 6A, 8A, 12A, 14A	4A, 6A, 8A, 12A, 13A, 15A	13A, 6A, 7A, 9A, 11A, 13A, 2B-12B	BIOL 2420	Microbiology and Pathology	Exams, Quizzes, Out of Class Assignments, Lab Practicals, Case Studies, and Unknown Project
1,2,5,7,8,9,11,12,14,15A; 2,3,4,5,6,7,8,9,10,12 B	1,2,5,6,7,8,9,11,12,13,15A; 3,4, 5,6,7,8,9,10,12B	2,5,10,11,12,13,15A; 3,6,9,12B	1,4,5,10,11,12,13,14,15A; 1,7,8,9,10,12B	1,2,5,6,7,8,9,10,11,13,15A; 2,3,4,5,6,7,8,9,10,12B	BIOL 2421	Microbiology	Exams, Quizzes, Research Project/Oral presentation, Lab Practicals, Lab Assignments, Unknown Project
EXEMPLARY EDUCATIONAL OBJECTIVES							
5 - To demonstrate knowledge of the interdependence of science and technology and their							
4 - To demonstrate knowledge of the major issues and problems facing modern science, including issues							
3 - To identify and recognize the differences among competing scientific theories.							
2 - To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to							
1- To understand and apply methods and appropriate technology to the study of natural sciences.							



ALAMO
COLLEGES

PALO ALTO COLLEGE

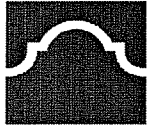
Natural Sciences - Biology Intellectual Competencies						Page 1		
List of all courses required and identify intellectual competencies in the core by inserting the learning outcome(s) number that demonstrates coverage of each								
Learning Outcomes						Course Number	Course Title	Evidence
1	2	3	4	5	6			
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	4, 5, 7, 8, 10, 12		1, 7, 8	1, 2, 3, 4, 5, 7, 8, 10, 11, 12	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	BIOL 1308	Principles of Biology	Exams, quizzes, essays
1>16	1>16	1>16	1>16	1>16	1>16	BIOL 1322	Intro- Nutrtn	individual project,
1-24A,1-23B	2A,10A,19A,20A,1-23B	1A,5A,14A,15A,19A,1-	1-24A,1-23B	5A,10A,11A,14A,17A,18A,19A,21A,22A,1B,2B,4B,6B,11B,13B,14B,16B,17B,20B	1A,2A,6A,8A,9A,14A,15A,20A,1-23B	BIOL 1406	Biol- Sci Maj I	Exams, Quizzes, Lab Homework Assignments,
1-11A,1-15B	1A,3A,4A,6A,7A,8A,11A,1-15B	4A,5A,6A,9A,10A,11A,1-15B	1-11A,1-15B	3A,4A,5A,7A9A,10A,11A,3B,5B,6B,7B,8B,9B,10B,11B,12B,13B,14B,15B	3A,4A,5A,7A8A,9A,10A,11A,1-15B	BIOL 1407	Biol- Sci Maj II	Lab Homework Assignments, Lab Practicals, Research Paper
4A; 9B	13A;4,5, 12B	N/A	N/A	14, 15A; 4, 8B	N/A	BIOL 1408	Biol- Non-sci Maj I	Lecture Exams, Quizzes, Final
5, 21A;12B	9, 10A; 1, 7, 12 B	N/A	N/A	12A; 7, 8, 12 B	N/A	BIOL 1409	Biol- Non-sci Maj II	Lab Practicals, Quizzes, Lab Reports
						COMPETENCY REFERENCES		
						6 - Computer Literacy - The ability to use computer based technology in		
						5 - Critical Thinking - Apply both qualitative and quantitative skills analytically and creatively to subject matter in order to		
						4 - Listening - analyze and interpret various forms of spoken communication.		
						3 - Speaking - ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience.		
						2 - Writing - the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience.		
						1 - Reading - the ability to analyze and interpret a variety of printed materials - books, documents, and articles.		



ALAMO
COLLEGES

PALO ALTO COLLEGE

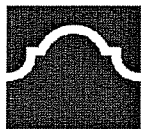
Natural Sciences - Biology Intellectual Competencies						Page 2		
List of all courses required and identify intellectual competencies in the core by inserting the learning outcome(s) number that demonstrates coverage of								
Learning Outcomes						Course Number	Course Title	Evidence
1	2	3	4	5	6			
1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A, 13A, 14A, 15A, 16A, 17A, 18A, 19A, 20A, 3B, 7B, 11B, 12B, 13B, 14B, 16B	1A, 2A, 3A, 4A, 8A, 10A, 11A, 15A, 16A, 18A, 19A, 20A, 1B, 2B, 5B, 14B, 16B		1B, 2B, 3B, 4B, 5B, 6B, 7B, 8B, 9B, 11B, 12B, 14B, 15B, 17B	2A, 3A, 4A, 5A, 8A, 9A, 10A, 11A, 15A, 16A, 18A, 19A, 20A, 1B, 2B, 5B, 6B, 8B, 9B, 11B, 12B, 14B, 15B, 17B		BIOL 1411	General Botany	A = Lecture Syllabus, B = Lab Syllabus, Exams, essays, quizzes, practicums
1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A, 13A	1A, 2A, 3A, 4A, 5A, 7A, 8A, 10A		2B, 3B, 4B, 6B, 9B	1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A, 13A, 1B, 2B, 3B, 4B, 5B, 6B, 7B, 8B, 9B, 10B		BIOL 1413	General Zoology	A = Lecture Syllabus, B = Lab Syllabus, Exams, essays, quizzes, practicums
2, 3, 5, 6, 7,				3	3	BIOL 2106	Environmental Biology	Lab assignments and quizzes.
1,2,3	1,3	1,3	1,2,3	2,3	1,2,3	BIOL 2301	Principles of A & P	Exams, Quizzes, Projects, Out of Class Assignments
1, 4, 5, 6, 7, 8, 9, 10	1, 4, 5, 6, 7, 8, 9, 10			1, 4, 5, 7, 10, 14		BIOL 2306	Environmental Biology	Homework assignments, quizzes, & major exams.
1, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8	9, 12, 14, 15, 16, 17, 20, 21	9, 11, 13, 14, 15, 16, 17	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 13, 14, 16, 17, 18, 20	9, 11, 12, 13, 14, 15, 17, 18	BIOL 2389	Academic Cooperative for the Biological	Exam, observations, project(s)
1,2,3-20	1,2,3-20	1,2,3-20	1,2,3-20	2,3,4,5,6,7,8,11,14,17,18,19,20	0,12,13,15,16,18,19,20	BIOL 2401	Human Anatomy and	Lecture and laboratory quizzes and assignments; laboratory exercises; computer assignments
				6 - Computer Literacy - The ability to use computer based technology				
				5 - Critical Thinking - Apply both qualitative and quantitative skills analytically and				
		4 - Listening - analyze and interpret various forms of spoken communication.						
		3 - Speaking - ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose,						
	2 - Writing - the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience.							
1 - Reading - the ability to analyze and interpret a variety of printed materials - books, documents, and articles.								



ALAMO
COLLEGES

PALO ALTO COLLEGE

Natural Sciences - Biology Intellectual Competencies						Page 3		
List of all courses required and identify intellectual competencies in the core by inserting the learning outcome(s) number that demonstrates coverage								
Learning Outcomes						Course Number	Course Title	Evidence
1	2	3	4	5	6			
1,2,3 - 44	1,2,3 - 44	1,2,3 - 44	1, 2, 3 - 44	10,1924,25,36	1,3,4,5,7,11,14,15,21,22,23,25,26,27,31,34,37,40,41,43,44	BIOL 2402	Human Anatomy and Physiology II	Research paper, lecture and laboratory assignments, classroom discussion, computer assignments and correspondence
1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 4, 5, 6, 7, 8, 9, 10	.		1, 3, 4, 5, 7, 10, 14		3 BIOL 2406	Environmental Biology	Lab assignments and quizzes.
1-22A,1-50B	1A,4A,5A,6A,10A,12A,15A,16A,19A,22A,1-50B	2A,4A,5A,9A,12A,14A,16A,17A,19A,1-50B	1-22A,1-50B	2A,4A,5A,10A,11A,14A,17A,18A,19A,21A,22A,2B,3B,5B,7B,8B,10B,27B,32B,33B,42B,44B,45B,49B	2A,6A,10A,12A,15A,17A,19A,1B,5B,10B,25B,37B,50B	BIOL 2416	Genetics	Exams, Quizzes, Lab Homework Assignments, Lab Practicals, Research Paper
1A-15A, 1B-12B	1A, 2A, 6A, 14A, 15B	14A, 7B, 9B	1A-15A, 1B-12B	3A, 4A, 6A, 10A, 11A, 14A, 15A, 7A, 2B, 7B, 9B, 10B,	1A-15A, 1B-12B	BIOL 2420	Microbiology and Pathology	Exams, Quizzes, Out of Class Assignments, Lab Practicals, Case Studies, and Unknown Project
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15A; 1,2,4,5,8,11,12B	2,3,4,5,6,7,8,9,11,12,13,14,15A; 1,7,8,9,10,12 B	2,3,4,5,6,7,8,9,11,12,13,14A; 3,14A; 1,4,11B	1,3,4,5,7,8,9,10,11,12,13,14A; 1,2,4,11,12B	1,4,5,8,11,12,15A; 2,3,5,6,8,9,10B	1,5,6,13,15A; 3,7,8,12B	BIOL 2421	Microbiology	A = Lecture Syllabus, B = Lab Syllabus. Exams, Quizzes, Research project/Oral presentation, Lab Reports, Unknown project
				6 - Computer Literacy - The ability to use computer based technology in				
			5 - Critical Thinking - Apply both qualitative and quantitative skills analytically and creatively to subject					
		4 - Listening - analyze and interpret various forms of spoken communication.						
	3 - Speaking - ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion,							
	2 - Writing - the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience.							
1 - Reading - the ability to analyze and interpret a variety of printed materials - books, documents, and articles.								



ALAMO
COLLEGES

PALO ALTO COLLEGE

Natural Sciences - Biology Perspectives										
List of all courses required and identify perspectives in the core by inserting the learning outcome(s) number that demonstrates coverage of each perspective in course.										
Learning Outcomes								Course Number	Course Title	Evidence
1	2	3	4	5	6	7	8			
1, 8, 9	4, 5, 8, 9	3, 4, 5, 6, 8, 9, 10, 11, 12	1, 2, 3, 4, 5, 9, 11, 12	8, 11	1, 8, 9, 11	2, 12	2, 4, 8, 9, 11, 12	BIOL 1308	Principles of Biology	Exams, quizzes, essays
1>16	1>16	1>16	1>16	1>16	N/A	1>16	1>16	BIOL 1322	Introduction to Nutrition	Recitation, individual project, group project, exams, final exam problem
1A,2A,21A	1A,2A,19A,21A	10A,14A,15A,20A,11B,14B	14A,19A,15B	1A,19A,1B	NA	5A,19A,20A,14B,15B	3A,4A,5A,6A,11A,21A,2B,6B	BIOL 1406	Biology for Science Majors I	Exams, Quizzes, Lab Homework Assignments, Lab Practicals, Research Paper
8A,10A,11A,15B	9a,11A	6A,7A,8A,7-14B	4A,5A,7A,8A,6B,7B,8B,9B,10B,11B,12B,13B,14B	9A,11A,14B	NA	3A,5A,7A,9A,6B,7B,9B	4A,5A,7A,10B	BIOL 1407	Biology for Science Majors II	Exams, Quizzes, Lab Homework Assignments, Lab Practicals, Research Paper
4, 5, 7, 10-13A;10-12B	2, 16A	12, 13A; 9-12B	16A; 13B	16A	N/A	3A; 4, 5, 8B	2, 14A	BIOL 1408	Biology for Non-science Majors I	Lecture Exams, Quizzes, Final Exam
1, 3-5, 7-21A;1, 10-12B	5, 7-19, 21A;10-12B	5, 7-18A;3-11B	5, 7-18, 21A; 5, 10, 12B	18, 21A;10-12B	N/A	7B	12, 13, 19, 21A; 12B	BIOL 1409	Biology for Non-science Majors II	Lab Practicals, Quizzes, Lab Reports

Perspectives of the Core Curriculum-- Appendix D

3A, 4A, 11A, 18A, 19A, 20A	3A, 4A, 18A, 20A, 1B, 2B, 7B, 12B14B , 19B	2A, 4A, 10A18A , 20A, 1B, 3B, 5B, 6B, 14B	1A, 2A, 16A, 2B, 3B, 5B, 6B	4A, 16A, 18A, 19A, 20A, 2B, 10B, 14B	1A, 3A, 5A, 6A, 12A, 14A, 4B, 9B, 11B, 13B, 16B,	4A, 17A, 19A, 2B, 8B, 12B	2A, 8A, 10A, 11A, 15A, 16A, 17A, 20A, 5B, 6B, 12B, 14B, 16B, 18B	BIOL 1411	General Botany	Exams, quizzes, essays, practicums
1A, 2A, 8B, 9B, 10B	1A, 2A, 11A, 5B, 8B, 9B, 10B	3A, 4A, 5A, 6A, 8A, 12A, 13A, 2B, 3B, 4B, 9B	2A, 3A, 4A, 5A, 1B, 3B, 10B	1A, 2A, 5B, 10B	4A, 9A, 12A, 13A, 1B, 2B, 6B, 7B, 9B	2A, 6A, 4B, 10B	3A, 5A, 6A, 7A, 8A, 12A, 13A, 2B, 3B, 4B, 9B	BIOL 1413	General Zoology	Exams, essays, quizzes, practicums
			4, 5,			3		BIOL 2106	Environmental Biology Lab	Lab activities, quizzes, and lab exams.
3	1,2,3	3	1,2,3	3	3	2,3	1,2,3	BIOL 2301	Principles of Anatomy and Physiology	Exams, Quizzes, Projects, Out of Class Assignments
				14		1, 4, 5, 7		BIOL 2306	Environmental Biology	Homework assignments, quizzes, & major exams.
2, 3, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16, 17	2, 3, 6, 7, 11, 13, 14, 15, 16, 17	2, 3, 4, 8, 21,	1, 2, 11, 12, 13, 14, 16, 18, 20	9, 12, 15, 16, 17, 18, 19, 20, 21	1, 2, 3, 4, 5, 6, 8, 16	1, 2, 4, 8, 10, 16, 17, 18	7, 8, 10, 15, 16, 18	BIOL 2389	Academic Cooperative for the Biological Sciences	Exam, observations, project(s)

Perspectives of the Core Curriculum-- Appendix D

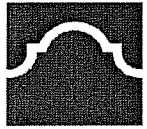
1,2,6,8,10, 11,19,20	NA	1,2,8,9, 10,11,1 2,13,17 ,19,20	2,3,4,5,6, 11,12,13, 17,18,19, 20	1,,6,8,9 ,1213,1 9,20	NA	2,3,4,5, 6,7,10, 11,12,1 4,16,17 ,18,19, 20	2,3,4,5, 6,7,8,1 1,12,14 ,16,16, 17,18,1 9,20	BIOL 2401	Human Anatomy and Physiology I	
								COMPETENCY REFERENCES		
								8 - Integrate knowledge and understand the interrelationships of the scholarly		
								7 - Use logical reasoning in problem solving;		
								6 - Develop the ability to make aesthetic judgments;		
								5 - Develop personal values for ethical behavior;		
								4 - Develop a capacity to use knowledge of how technology and science affect their lives;		
								3 - Recognize the importance of maintaining health and wellness;		
								2 - Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of life in order to understand ways in		
								1 - Establish broad and multiple perspectives on the individual in relationship to the larger society and world in which he or she lives, and to understand		



ALAMO
COLLEGES

PALO ALTO COLLEGE

Natural Sciences - Biology Perspectives						Page 2				
List of all courses required and identify perspectives in the core by inserting the learning outcome(s) number that										
Learning Outcomes								Course Number	Course Title	Evidence
1	2	3	4	5	6	7	8			
5,18,22,31,43,44	NA	1,5,8,9,10,11,12,18,19,24,28,31,36,37,39,40,41	3,6,7,15,20,22,25,28,33,34,37	21,22,25,28,34,35,37,38,44	NA	1,5,8,9,10,15,16,17,18,19,22,24,25,28,31,34,35,36,37,40,41,42,43,44	2,3,8,9,10,11,12,15,16,17,18,19,21,22,24,25,28,,30,31,34,35,36,39,40,41	BIOL 2402	Human Anatomy and Physiology II	Lecture and laboratory quizzes and assignments; laboratory exercises (through use of computers and laboratory equipment); computer assignments
1, 13, 14	1, 14	11	4, 8, 10	14		1, 3, 4, 5, 7, 10, 14		BIOL 2406	Environmental Biology	quizzes, & major exams. Lab activities, quizzes, and lab exams.
2A,19A,22A	2A,19A	9A,11A,17A,18A,19A,32B,42B,50B	1A,2A,19A,32B,50B	2A,19A,22A,50B	NA	4A,14A,19A,21A,22A,2B,3B,5B,7B,10B,27B,32B,44B,45B,46B,49B,50B	2A,5A,22A,6B,7B,8B,9B,10B,35B,37B,50B	BIOL 2416	Genetics	Exams, Quizzes, Lab Homework Assignments, Lab Practicals, Research Paper
						8 - Integrate knowledge and understand the interrelationships of the scholarly				
						7 - Use logical reasoning in problem solving;				
						6 - Develop the ability to make aesthetic judgments;				
						5 - Develop personal values for ethical behavior;				
						4 - Develop a capacity to use knowledge of how technology and science affect their lives;				
						3 - Recognize the importance of maintaining health and wellness;				
						2 - Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of life in order to understand ways in				
1 - Establish broad and multiple perspectives on the individual in relationship to the larger society and world in which he or she lives, and to understand the										



ALAMO
COLLEGES

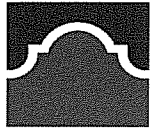
PALO ALTO COLLEGE

Natural Sciences - Biology Perspectives						Page 3				
List of all courses required and identify perspectives in the core by inserting the learning outcome(s) number that										
Learning Outcomes								Course Number	Course Title	Evidence
1	2	3	4	5	6	7	8			
5,18,22,31,43,44	NA	1,5,8,9,10,11,12,18,19,24,28,31,36,37,39,40,41	3,6,7,15,20,22,25,28,33,34,37	21,22,25,28,34,35,37,38,44	NA	1,5,8,9,10,15,16,17,18,19,22,24,25,28,31,34,35,36,37,40,41,42,43,44	2,3,8,9,10,11,12,15,16,17,18,19,21,22,24,25,28,,30,31,34,35,36,39,40,41	BIOL 2402	Human Anatomy and Physiology II	Lecture and laboratory quizzes and assignments; laboratory exercises (through use of computers and laboratory equipment); computer assignments
1, 13, 14	1, 14	11	4, 8, 10	14		1, 3, 4, 5, 7, 10, 14		BIOL 2406	Environmental Biology	Homework assignments, quizzes, & major exams. Lab activities, quizzes, and lab exams.
2A,19A,22A	2A,19A	9A,11A,17A,18A,19A,32B,42B,50B	1A,2A,19A,32B,50B	2A,19A,22A,50B	NA	4A,14A,19A,21A,22A,2B,3B,5B,7B,10B,27B,32B,44B,45B,46B,49B,50B	2A,5A,22A,6B,7B,8B,9B,10B,35B,37B,50B	BIOL 2416	Genetics	Exams, Quizzes, Lab Homework Assignments, Lab Practicals, Research Paper
1A, 1B, 9A, 11A, 13A, 14A, 15A, 2B, 10B,	1A, 9A, 11A, 13A, 14A, 15A, 8B, 10B, 12B	3A, 4A, 9A, 10A, 11A, 12A, 13A, 14A, 15A, 6B, 8B, 9B, 10B, 12B	5A, 9A, 11A, 13A, 13A, 15A, 7B, 8B,	15A, 2B	9B	8A, 9A, 11A, 13A, 14A, 15A, 9A	1A, 7A, 8A, 9A, 11A, 12A, 13A, 15A, 7A, 9A	BIOL 2420	Microbiology and Pathology	Exams, Quizzes, Out of Class Assignments, Lab Practicals, Case Studies, and Unknown Project
1,2,7,10,11,13,15A	1,2,5,10,11,12,13,15A; 2B	1,2,6,8,11,12,13,14,15A; 2,5,6,7,9,11B	1,2,4,5,11,12,13,14,15A; 1,2,5,7,9,11,12B	1,2,10,13,15A; 2,3,4,5B	2,7,12,15A; 1,4B	1,2,4,8,9,11,13,15A; 5,6,7,9,10,12B	1,2,3,5,6,9,10,11,15A; 1,2,11,12B	BIOL 2421	Microbiology	Exams, Quizzes, Research Project/Oral presentation, Lab practicals, Lab Reports, Unknown Project
						8 - Integrate knowledge and understand the interrelationships of the				
						7 - Use logical reasoning in problem solving;				
				6 - Develop the ability to make aesthetic judgments;						
			5 - Develop personal values for ethical behavior;							
		4 - Develop a capacity to use knowledge of how technology and science affect their lives;								
		3 - Recognize the importance of maintaining health and wellness;								
	2 - Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of life in order to understand ways in									
1 - Establish broad and multiple perspectives on the individual in relationship to the larger society and world in which he or she lives, and to understand										

Perspectives in the Core Curriculum -- Appendix E.1



Discipline: Mathematics - Perspectives									
Rating Score: None (0 outcomes) Incidental (1 outcome) Moderate (2 outcomes) Extensive (3+ outcomes)									
Learning Outcomes								Course Number	Course Title
1	2	3	4	5	6	7	8		
1	1	0	3	3	3	3	2	MATH 1314	College Algebra
2	2	0	2	3	3	3	3	MATH 1316	Trigonometry
1	1	0	2	3	3	3	3	MATH 1324	Finite Mathematics
2	2	0	3	2	3	3	2	MATH 1325	Elements of Calculus With Applications
3	2	0	3	2	3	3	3	MATH 1332	College Mathematics for Liberal Arts
2	3	0	3	3	3	3	3	MATH 1348	Analytic Geometry
3	3	0	3	3	3	3	3	MATH 1350	Fundamentals of Mathematics I for Teachers
3	3	0	3	3	3	3	3	MATH 1351	Fundamentals of Mathematics II for Teachers
3	1	0	1	3	3	3	3	MATH 1414	College Algebra
								COMPETENCY REFERENCES	
							8 - Integrate knowledge and understand the interrelationships of the scholarly disciplines.		
						7 - Use logical reasoning in problem solving;			
					6 - Develop the ability to make aesthetic judgments;				
				5 - Develop personal values for ethical behavior;					
			4 - Develop a capacity to use knowledge of how technology and science affect their lives;						
		3 - Recognize the importance of maintaining health and wellness;							
	2 - Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of life in order to understand ways in which to be a responsible member of society;								
1 - Establish broad and multiple perspectives on the individual in relationship to the larger society and world in which he or she lives, and to understand the responsibilities of living in a culturally and ethnically diversified world;									

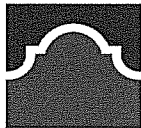


**A L A M O
C O L L E G E S**

PALO ALTO COLLEGE

Discipline: Mathematics -									
Rating Scale: None (0 outcomes) Incidental (1 outcome) Moderate (2 outcomes) Extensive (3+ outcomes)									
Learning Outcomes								Course Number	Course Title
1	2	3	4	5	6	7	8		
3	3	0	3	3	3	3	3	MATH 1442	Elementary Statistical Methods
3	3	0	3	3	3	3	3	MATH 2318	Linear Algebra
3	3	0	3	3	3	3	3	MATH 2320	Differential Equations
3	3	0	3	3	3	3	3	MATH 2412	PreCalculus
3	3	0	2	3	3	3	3	MATH 2413	Calculus I
3	3	0	3	3	3	3	3	MATH 2414	Calculus II
3	3	0	3	3	3	3	3	MATH 2415	Calculus III
								COMPETENCY REFERENCES	
								8 - Integrate knowledge and understand the	
								7 - Use logical reasoning in problem solving;	
								6 - Develop the ability to make aesthetic judgments;	
								5 - Develop personal values for ethical behavior;	
								4 - Develop a capacity to use knowledge of how technology and science affect their	
								3 - Recognize the importance of maintaining health and wellness;	
								2 - Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of	
								1 - Establish broad and multiple perspectives on the individual in relationship to the larger society and world in	

Intellectual Competencies in the Core Curriculum -- Appendix E.1



ALAMO
COLLEGES

PALO ALTO COLLEGE

Mathematics - Intellectual Competencies							
Rating Score: None (0 outcomes) Incidental (1 outcome) Moderate (2 outcomes) Extensive (3+ outcomes)							
Learning Outcomes						Course Number	Course Title
1	2	3	4	5	6		
3	3	3	3	3	3	MATH 1314	College Algebra
3	3	3	3	3	2	MATH 1316	Trigonometry
3	3	3	3	3	1	MATH 1324	Finite Mathematics
3	3	3	3	3	3	MATH 1325	Elements of Calculus With Applications
3	3	3	3	3	3	MATH 1332	College Mathematics for Liberal Arts
3	3	3	3	3	3	MATH 1348	Analytic Geometry
3	3	3	3	3	3	MATH 1350	Fundamentals of Mathematics I for Teachers
3	3	3	3	3	3	MATH 1351	Fundamentals of Mathematics II for Teachers
3	3	3	3	3	3	MATH 1414	College Algebra
3	3	3	3	3	3	MATH 1442	Elementary Statistical Methods
						COMPETENCY REFERENCES	
					6 - Computer Literacy - The ability to use computer based technology in communication, solving problems, and acquiring information.		
				5 - Critical Thinking - Apply both qualitative and quantitative skills analytically and creatively to subject matter in order to evaluate arguments and to construct alternative strategies.			
			4 - Listening - analyze and interpret various forms of spoken communication.				
		3 - Speaking - ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience.					
	2 - Writing - the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience.						
1 - Reading - the ability to analyze and interpret a variety of printed materials - books, documents, and articles.							



PALO ALTO COLLEGE

Mathematics - Intellectual							
Rating Score: None (0 outcomes) Incidental (1 outcome) Moderate (2 outcomes) Extensive (3+ outcomes)							
Learning Outcomes						Course Number	Course Title
1	2	3	4	5	6		
3	3	3	3	3	3	MATH 2318	Linear Algebra
3	3	3	3	3	3	MATH 2320	Differential Equations
3	3	3	3	3	3	MATH 2412	PreCalculus
3	3	3	3	3	1	MATH 2413	Calculus I
3	3	3	3	3	1	MATH 2414	Calculus II
3	3	3	3	3	3	MATH 2415	Calculus III
COMPETENCY REFERENCES							
						6 - Computer Literacy - The ability to use computer based technology in	
						5 - Critical Thinking - Apply both qualitative and quantitative skills analytically and	
						4 - Listening - analyze and interpret various forms of spoken communication.	
						3 - Speaking - ability to communicate orally in clear, coherent, and persuasive language	
						2 - Writing - the ability to produce clear, correct and coherent prose adapted to purpose, occasion and	
						1 - Reading - the ability to analyze and interpret a variety of printed materials - books, documents, and articles.	

CORE CURRICULUM SIX INTELLECTUAL COMPETENCIES and EIGHT CORE PERSPECTIVES – Appendix E.2

90 Common Core Component Courses 2004 – 2010

Rating Scale: (0) None – (1) Incidental – (2) Moderate – (3) Extensive

Six Intellectual Competencies

COMPETENCY REFERENCES	
1- READING	Reading material at the college level means having the ability to analyze and interpret a variety of printed materials such as books, articles, & documents.
2- WRITING	Writing at the college level means having the ability to produce clear, correct, & coherent prose adapted to purpose, occasion, & audience. In addition to knowing correct grammar, spelling & punctuation, students should also become familiar with the writing process, including, how to discover a topic, how to develop & organize it, & how to phrase it effectively for their audience. These abilities are acquired through practice & reflection.
3- SPEAKING	Effective speaking is the ability to communicate orally in clear, coherent, & persuasive language appropriate to purpose, occasion, & audience.
4- LISTENING	Analyze & interpret various forms of spoken communication, possess proficiency.
5- CRITICAL THINKING	Ability to apply both qualitative & quantitative skills analytically & creatively to subject matter to evaluate arguments & construct alternative strategies.
6- COMPUTER LITERACY	Understand our technological society, use computer based technology in communication, solving problems, acquiring information.

2004 Results

Totals (n=90)	Reading	Writing	Speaking	Listening	Critical Thinking	Computer Literacy
0			3% (3)			6% (5)
1	2% (2)	9% (8)	13% (12)			19% (17)
2	28% (25)	37% (33)	59% (53)	17% (15)	14% (13)	44% (40)
3	70% (63)	54% (49)	24% (22)	83% (75)	86% (77)	31% (28)

CORE CURRICULUM SIX INTELLECTUAL COMPETENCIES and EIGHT CORE PERSPECTIVES – Appendix E.2

90 Common Core Component Courses 2004 – 2010

2010 Results

Totals (n=90)	Reading	Writing	Speaking	Listening	Critical Thinking	Computer Literacy
0		2%(2)	12%(11)	7%(6)		12%(11)
1	2%(2)	8%(7)	8%(7)	1%(1)	3%(3)	17%(15)
2	4%(4)	9%(8)	3%(3)	1%(1)	1%(1)	8%(7)
3	93%(84)	81%(73)	77%(69)	91%(82)	96%(86)	63%(57)

Eight Core Perspectives

1- Establishes broad & multiple perspectives on the individual in relationship to the larger society & world in which he/she lives, & to understand the responsibilities of living in a culturally & ethnically diversified world.
2- Stimulates a capacity to discuss and reflect upon individual, political, economic, & social aspects of life.
3- Recognizes the importance of maintaining health & wellness.
4- Develops a capacity to use knowledge of how technology & science affect their lives.
5- Develops personal values for ethical behavior.
6- Develops the ability to make aesthetic judgments.
7- Uses logical reasoning in problem solving.
8- Integrates knowledge & understand the interrelationships of the scholarly disciplines.

CORE CURRICULUM SIX INTELLECTUAL COMPETENCIES and EIGHT CORE PERSPECTIVES – Appendix E.2

90 Common Core Component Courses 2004 – 2010

2004 Results

Totals (n=90)	1	2	3	4	5	6	7	8
0	6% (5)	4% (4)	30% (27)	2% (2)	10% (9)	11% (10)		2% (2)
1	23% (21)	28% (25)	17% (15)	19% (17)	39% (35)	38% (34)	1% (1)	14% (13)
2	19% (17)	17% (15)	39% (35)	49% (44)	32% (29)	30% (27)	27% (24)	31% (28)
3	52% (47)	51% (46)	14% (13)	30% (27)	19% (17)	21% (19)	72% (65)	52% (47)

2010 Results

Totals (n=90)	1	2	3	4	5	6	7	8
0	8%(7)	11%(10)	43%(39)	3%(3)	11%(10)	23%(21)		3%(3)
1	4%(4)	7%(6)	9%(8)	7%(6)	3%(3)	9%(8)	8%(7)	1%(1)
2	6%(5)	10%(9)	14%(13)	26%(23)	11%(10)	13%(12)	10%(9)	4%(4)
3	82%(74)	72%(65)	33%(30)	64%(58)	74%(67)	54%(49)	82%(74)	91%(82)

**CORE CURRICULUM SIX INTELLECTUAL COMPETENCIES and EIGHT CORE
PERSPECTIVES – Appendix E.2**

90 Common Core Component Courses 2004 – 2010

COURSE NUMBER	COURSE TITLE
COMMUNICATIONS	
ENGL 1301	Freshman Composition I
ENGL 1302	Freshman composition II
SPCH 1311	Fundamentals of Speech
SPCH 1318	Interpersonal Communication
SPCH 1321	Business & Professional Speech
MATHEMATICS	
MATH 1314	College Algebra
MATH 1316	Plane Trigonometry
MATH 1324	Finite Math
MATH 1325	Calculus for Business
MATH 1332	Math for Liberal Arts
MATH 1348	Analytical Geometry
MATH 1442	Elements of Statistics
MATH 2318	Linear Algebra
MATH 2320	Differential Equations
MATH 2412	Pre-Calculus
MATH 2413	Calculus I
MATH 2414	Calculus II
MATH 2415	Calculus III
NATURAL SCIENCES	
BIOL 1406	General Biology I for Science Majors
BIOL 1407	General Biology II for Science Majors
BIOL 1408	General Biology I for Non-Science Majors
BIOL 1409	General Biology II for Non-Science Majors
BIOL 1411	General Botany
BIOL 1413	General Zoology
BIOL 2106	Environmental Biology Lab
BIOL 2306	Environmental Biology
BIOL 2401	Human Anatomy & Physiology I

**CORE CURRICULUM SIX INTELLECTUAL COMPETENCIES and EIGHT CORE
PERSPECTIVES – Appendix E.2**

90 Common Core Component Courses 2004 – 2010

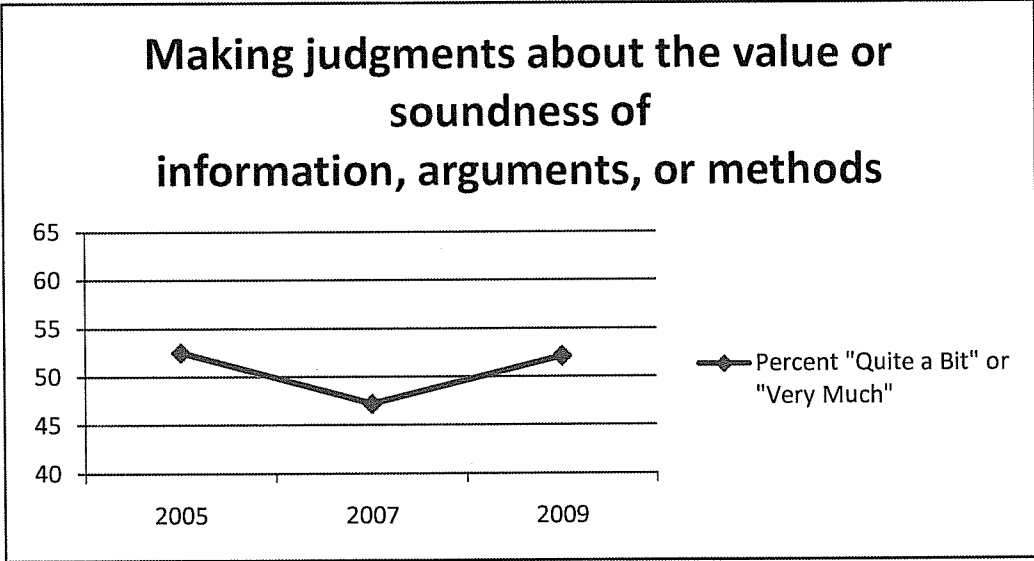
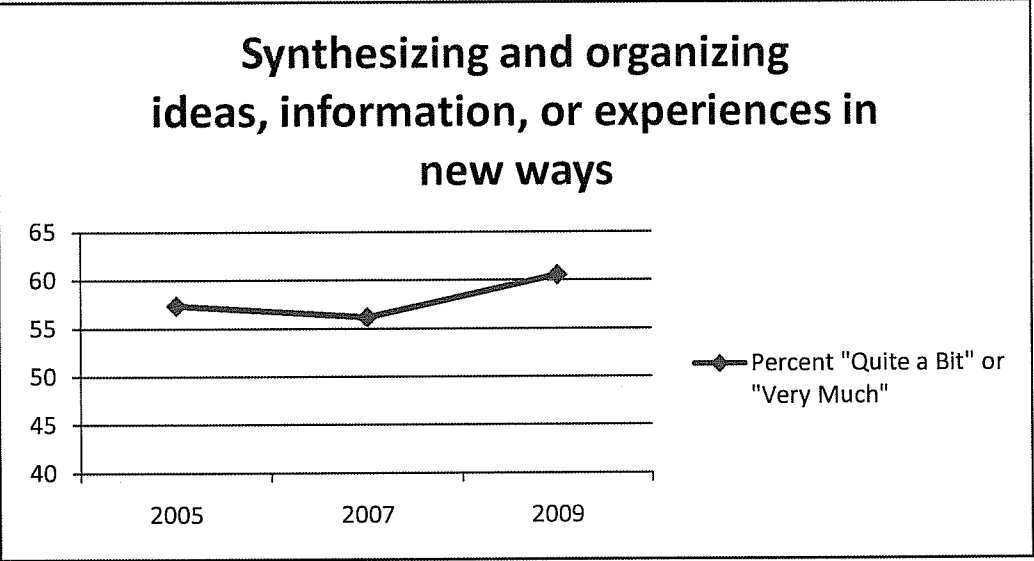
BIOL 2402	Human Anatomy & Physiology II
CHEM 1311/1111	General Chemistry I
CHEM 1312/1112	General Chemistry II
CHEM 1405	Introductory Chemistry I
CHEM 1407	Introductory Chemistry II
GEOL 1401	Earth Sciences I
GEOL 1402	Earth Sciences II
GEOL 1403	Physical Geology
GEOL 1404	Historical Geology
PHYS 1401	General Physics I
PHYS 1402	General Physics II
PHYS 1405	Introductory Physics I
HUMANITIES & VISUAL & PERFORMING ARTS	
ARTS 1301	Art Appreciation
ARTS 1303	Art History Survey I
ARTS 1304	Art History Survey II
DANC 2303	Dance Appreciation
DRAM 1310	Theatre Appreciation
ENGL 2322	British Literature through 18 th Century
ENGL 2323	British Literature in the 19 th & 20 th Century
ENGL 2327	Early Modern Literature
ENGL 2328	Modern American Literature
ENGL 2332	World Literature-Antiquity – Renaissance
ENGL 2333	World Literature-Modern World Literature
HUMA 1301	Introduction to Humanities
HUMA 1302	World Culture & Global Issues
MUSI 1306	Music Appreciation
MUSI 1310	American Music
PHIL 1301	Introduction to Philosophy
PHIL 1304	Modern World Religions
PHIL 2303	Logic
PHIL 2306	Ethics

CORE CURRICULUM SIX INTELLECTUAL COMPETENCIES and EIGHT CORE PERSPECTIVES – Appendix E.2

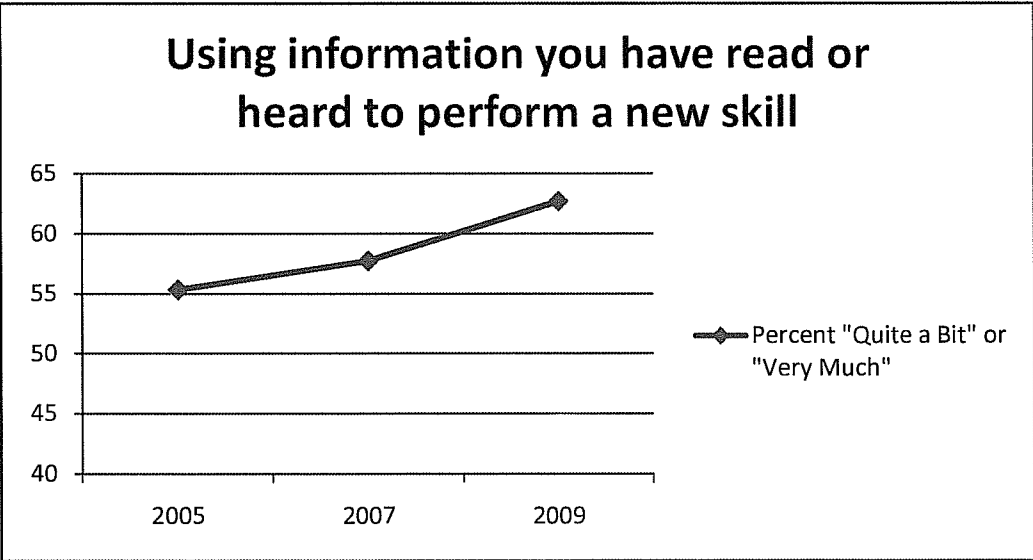
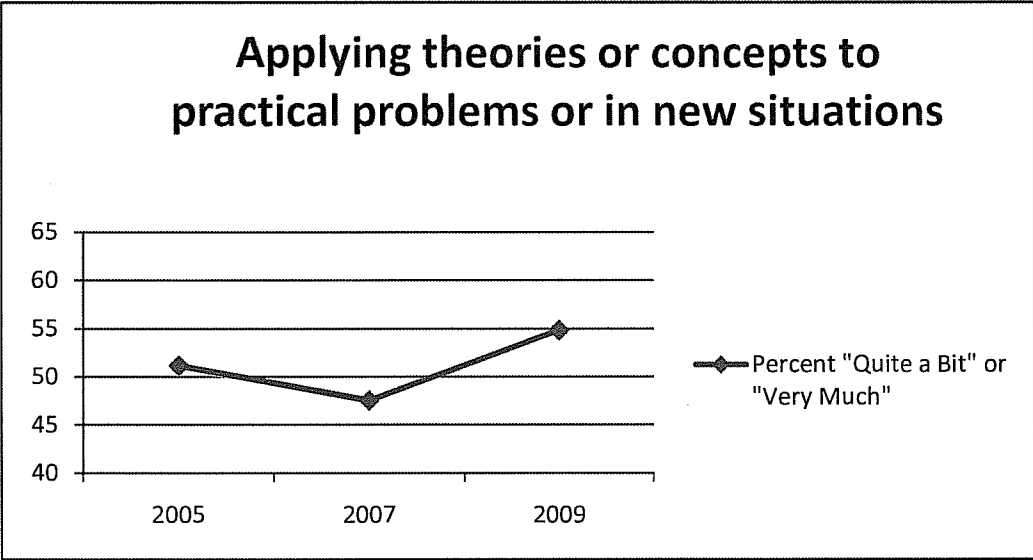
90 Common Core Component Courses 2004 – 2010

SPAN 2311	Intermediate Spanish I
SPAN 2312	Intermediate Spanish II
SOCIAL & BEHAVIORAL SCIENCES	
ANTH 2346	Introduction to Anthropology
COMM 1307	Introduction to Mass Communications
CRIJ 1301	Introduction to Criminal Justice
CRIJ 1307	Crime in America
ECON 2301	Principles of Macroeconomics
ECON 2302	Principles of Microeconomics
GEOG 1303	World Geography
GOVT 2305	American Government I: National
GOVT 2306	American Government II: State
HIST 1301	History of the United States I
HIST 1302	History of the United States II
HIST 2301	Texas History
HIST 2311	Western Civilization to the 17 th Century
HIST 2312	Western Civilization since the 17 th Century
HIST 2313	History of England I
HIST 2314	History of England II
HIST 2321	World Civilization to the 15 th Century
HIST 2322	World Civilization since the 15 th Century
HIST 2323	Eastern Civilization
HIST 2381	African American History
PSYC 2301	Introduction to Psychology
PSYC 2306	Human Sexuality
PSYC 2308	Developmental Psychology: Conception – Childhood
PSYC 2314	Developmental Psychology: Life Span
PSYC 2316	Psychology of Personality
PSYC 2319	Social Psychology
SOCI 1301	Introduction to Sociology
SOCI 1306	Contemporary Social Problems

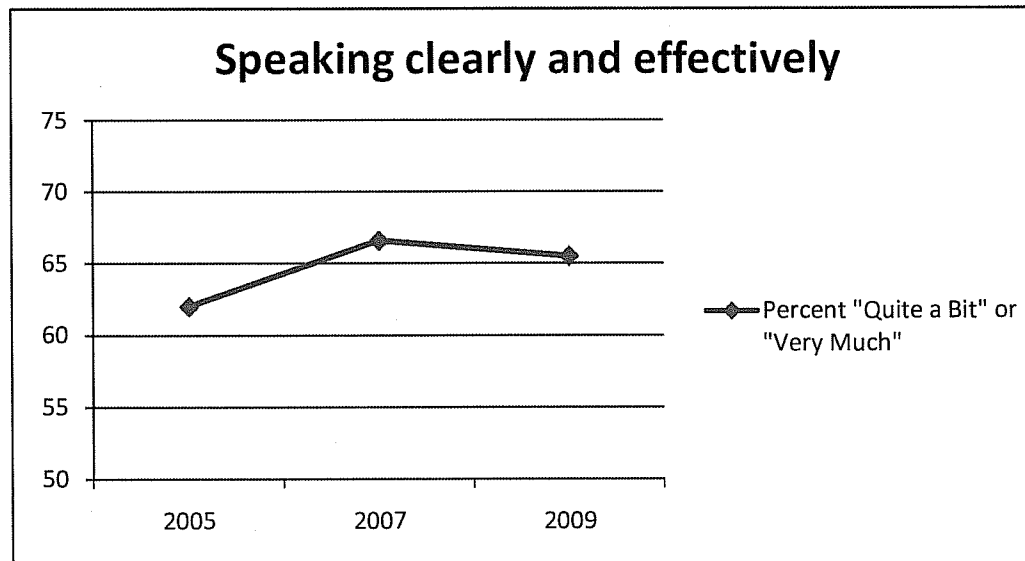
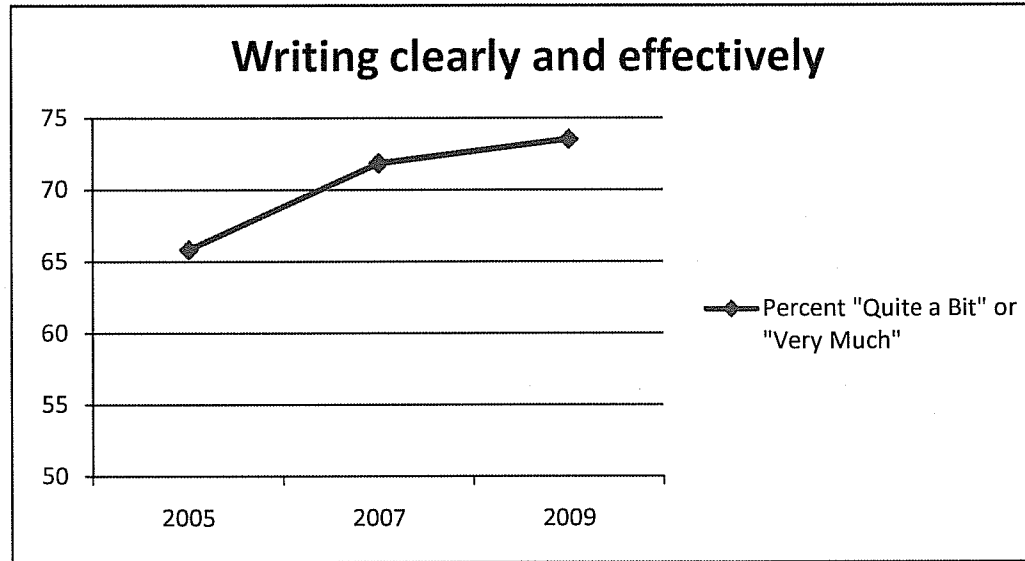
Palo Alto College's CCSSE Results Related to Core Student Learning Outcome Assessment



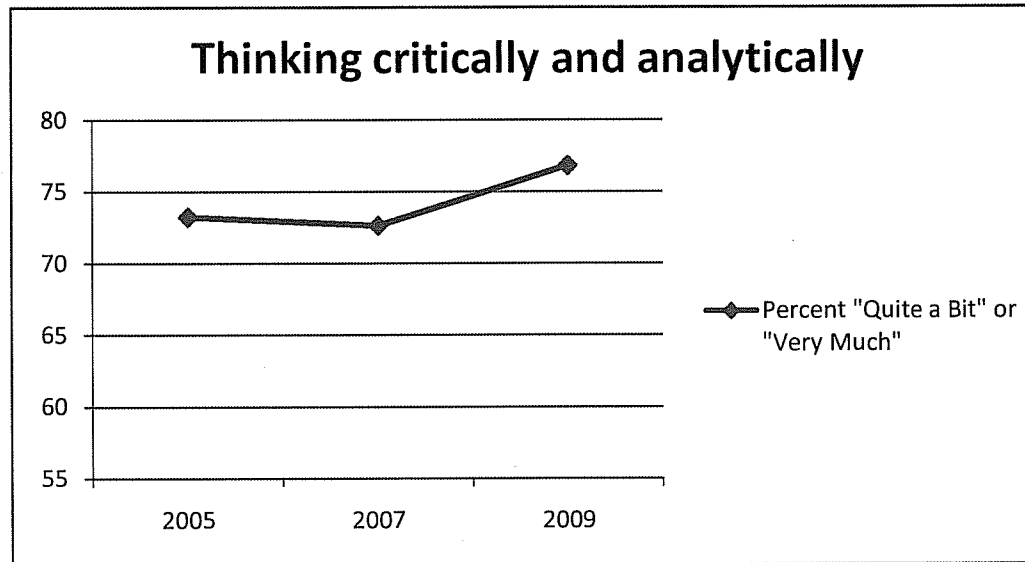
Palo Alto College's CCSSE Results Related to Core Student Learning Outcome Assessment



Palo Alto College's CCSSE Results Related to Core Student Learning Outcome Assessment



Palo Alto College's CCSSE Results Related to Core Student Learning Outcome Assessment



Appendix F.1

**PALO ALTO COLLEGE
CCSSE RESULTS FOR 2005, 2007, 2009
SELECTED FREQUENCY DISTRIBUTIONS**

		Frequency Distributions (weighted data*)						
		2005		2007		2009		
		Count	Col %	Count	Col %	Count	Col %	
5b.	Analyzing the basic elements of an idea, experience, or theory							
		Quite a bit	208	37.0	272	43.1	184	40.0
		Very much	122	21.8	121	19.2	119	25.8
				58.8		62.3		65.9
		Total	561	100.0	632	100.0	460	100.0
5c.	Synthesizing and organizing ideas, information, or experiences in new ways							
		Quite a bit	224	39.8	239	38.1	181	39.5
		Very much	98	17.5	113	18.0	96	21.0
				57.3		56.1		60.5
		Total	563	100.0	626	100.0	457	100.0
5d.	Making judgments about the value or soundness of information, arguments, or methods							
		Quite a bit	203	35.8	193	30.6	164	35.6
		Very much	95	16.7	105	16.6	76	16.5
				52.5		47.2		52.1
		Total	567	100.0	631	100.0	462	100.0
5e.	Applying theories or concepts to practical problems or in new situations							
		Quite a bit	200	35.4	193	30.6	167	36.3
		Very much	89	15.7	106	16.9	85	18.5
				51.1		47.5		54.8
		Total	566	100.0	628	100.0	460	100.0

Appendix F.1

5f.	Using information you have read or heard to perform a new skill								
		Quite a bit	201	35.5	236	37.4	176	37.9	
		Very much	112	19.8	128	20.3	114	24.7	
				55.3		57.7		62.7	
		Total	566	100.0	632	100.0	463	100.0	
12c.	Writing clearly and effectively								
		Quite a bit	239	42.2	278	44.5	201	44.1	
		Very much	133	23.6	170	27.3	135	29.5	
				65.8		71.8		73.5	
		Total	566	100.0	625	100.0	457	100.0	
12d.	Speaking clearly and effectively								
		Quite a bit	218	38.6	259	41.5	167	36.5	
		Very much	132	23.4	156	25.0	133	29.1	
				62.0		66.6		65.5	
		Total	564	100.0	623	100.0	457	100.0	
12e.	Thinking critically and analytically								
		Quite a bit	273	48.4	256	40.8	194	42.3	
		Very much	140	24.8	199	31.8	158	34.5	
				73.2		72.6		76.8	
		Total	563	100.0	626	100.0	459	100.0	

*Data was weighted according to the full-time/part-time population data from IPEDS

Appendix F.2

Program Review Reports and Recommendations Impacting Core Courses at Palo Alto College

Physics 03 Program Review

- Student Survey results voiced students' displeasure with the lack of essential lab equipment and supplies resulting in a recommendation to develop a plan to purchase the needed lab equipment and supplies.
- The Physics program highlights:
 - its creation of a competency based syllabus for both lecture and laboratory sections
 - the computer-based physics experiments used in courses
 - the addition of physics tutors to increase student retention

Communication 03 Program Review

- In response to the recommendations from the last program review, the Communications program strengthened core course curriculum by collaborating with Communications departments at four-year institutions (with an emphasis on Technical Writing)
- Developed a public relations concentration
- Recommendations from the last program review motivated the addition of COMM 2305 (Editing, Layouts, and Headlines) and COMM 2324 (Practicum in Electronic Media)
- Recommendations from this program review include:
 - maintaining a web site with course syllabi and relevant links for current and potential student use
 - tracking graduates of Palo Alto College's Communication program for feedback on their university experience and professional work experience.

Speech 03 Program Review

- The Speech Department goals were updated and noted as achieved:
 - identifying majors and assisting them more effectively
 - providing appropriate and sufficient speech classes to meet the needs of non-native speakers by August 2001 and reports that these goals have been achieved. The department offers a Public Speaking course and an Intermediate Conversation course for non-native speakers; these students are also encouraged to take Interpersonal Communication
- The review also reports on an additional goal that 70% of all Speech students would successfully use technology to research and/or present their speeches. The review states, "The precise numbers have not been ascertained, but it is apparent that a large and increasing number of students in speech courses are using technology to research and present their speeches."

English 03 Program Review

- A variety of delivery modalities (face-to-face, internet, enhanced) have been instituted in literature and composition courses to meet the learning needs of students
- A study was implemented to examine and increase the success rates of students from Engl 1301 to Engl 1302. The study shows that the success rates had been raised 4 percentage points in four years
- A department goal of teachers and students in at least two English courses a semester will experience interdepartmental and/or intradepartmental course collaboration as a way of enhancing curricular content and enriching classroom interactions is stated as a departmental goal

Appendix F.2

- The English department implemented a computer enhanced Engl 1301 and utilized an instructor developed composition text to offer students instructional resources more suited to individual learning styles
- The impact on student success of the enhanced tutoring services (on-line, telephone, fax , face-to-face) available through the Student Learning Center is highlighted
- This review lists the following curricular improvements since the last program review:
 - added new multicultural courses,
 - incorporated service learning activities,
 - experimented with computerized and web-enhanced courses,
 - collaborated with IDST to orchestrate world literature/world civilization learning communities.
 - offered special topics sections of Engl 1302 which have focused on The Odyssey or on Native American literature,
 - offered special topics sections of Engl 2333 which have focused on colonial/post-colonial literature or contemporary South African literature.

Philosophy 03 Program Review

- The philosophy curriculum, as embodied in courses syllabi through this period, reflects exemplary focus on developing the art of critical thinking, self-reflection, and consideration of the moral self in an ethical society
- The creation of a philosophy web site and its contents:
 - course-and-instructor information,
 - extensive resources/web links to philosophical topics,
 - descriptions of the relevance of philosophy to various professional careers, and advisement information.
- The philosophy curriculum has been enhanced by a number of faculty driven initiatives:
 - the addition of on-line courses,
 - instructional innovations,
 - participation in inter-collegiate academic competitions, and using outstanding guest speakers in courses
- Philosophy uses entrance and exit exams and that these exams show that the courses of study in philosophy increase students understanding of philosophy by 50%.
- The syllabus check sheet used by the philosophy department for all courses.

Fine Arts 03 Program Review

- The Art Unit has forged relationships with community arts organizations such as: Blue Star Art Space, The Guadalupe Cultural Arts Center, Joven, The City of San Antonio Cultural Arts Department and Say Si.
- These collaborations provide unique opportunities for Palo Alto College students to further develop their abilities by extending the classroom into the community.
- The Art Unit has expanded its curriculum to meet a demand for digital art and that the Unit is growing into new technologies in the studio areas and adopting more technological approaches in our lecture courses.
- The Art Unit has had some success in surveying students in art classes to get information pertinent to the program.

Appendix F.2

- Extensive community involvement is demonstrated by both students and faculty through activities such as exhibitions, competitions and special projects
- Full-time faculty teach in every area and rotate teaching assignments to allow for evaluation of materials and to encourage exchange of ideas among faculty.
- Faculty take advantage of local museums and exhibitions which become extensions of the classroom and provide students with unique opportunities to study artworks first hand.
- The Art Unit has met goals specified in the last review related to students participation in one co-curricular activity (all art classes now require participation in a co-curricular activity) and goals related to adding lab space and additional course offerings in Graphic Design.

Economics 03 Program Review

- The alternative delivery formats have afforded the department an opportunity to enrich courses with various media, which in turn have increased the success of students taking economics courses.

College Level Math 04 Program Review

- Efforts of faculty to increase student success rates including alternative pathways in mathematics as well as multiple delivery methods.
- Initiatives to increase standardization of the curriculum and assessment through common diagnostic and final exams and through a standard syllabus which is reviewed each semester by the course director in the math department.
- The Math department is initiating a diagnostic exam, which is to be taken during the first two weeks of College Algebra and is also attempting a limited trial of supplemental instruction in College Algebra.
- Among other success strategies the review reports is:
 - the development of Math for Liberal Arts,
 - the initiation of early Drop Alert procedures,
 - further/stronger incentives to use the Math Learning Center,
 - the organization of review sessions for the College Algebra final
- The math department is scanning for technology options including the possible purchase of software systems which are now standard for application in higher level mathematics courses.

Criminal Justice 04 Program Review

- The Criminal Justice program curriculum incorporates many coordinated service learning activities which provide valuable industry contacts and hands-on training.
- The faculty members connect the local criminal justice community with the students through visits by a host of criminal justice professionals and tours of numerous criminal justice related institutions in the areas.
- Transfer agreements were created with TAMU at Kingsville, San Antonio System Center, and with Texas State University
- Police Systems and Criminal Investigations courses have been taught by actively employed police officers.

Appendix F.2

Psychology 05 Program Review

This review highlights two collaborations:

- The University of Texas Health Science Center through its Girtalk2 Program entered into a partnership with Palo Alto College's psychology department to recruit female psychology students that could mentor disadvantaged minority high school students. Several Palo Alto College Students that were enrolled in psychology courses were selected for this valuable experience.
- Psychology students volunteered at the local psychiatric hospital, San Antonio State Hospital, as part of a service learning opportunity. The countless hours of volunteer service provided by Palo Alto College's psychology students led to San Antonio State Hospital's Volunteer Service Award granted to Palo Alto College's Behavioral Science Department. Recently the psychology program was informed that staff at the San Antonio State Hospital had nominated the psychology program's volunteer efforts for statewide recognition.

History 05 Program Review

- The development of an outstanding "Small Town Project" which has received local and national attention where students learn how history impacted the development of their own families and post interesting genealogies on the internet.

Geology 05 Program Review

- The geology program will soon have a laboratory/classroom solely dedicated to geology for the first time.
- The follow –up action plan in the review has these components:
 - Technology resources should be made available to the classroom/laboratory where geology courses are taught.
 - Eventually the laboratory be equipped with computers for use in lab exercises and to access the internet
 - Additional lab equipment models, and specimens be purchased to upgrade the geology labs especially for the more recently offered courses.
 - An effort be made to continue to offer and promote Geology 1445, Oceanography, in the fall semester and Geology 1402, Earth Science II in the Spring semester.
 - Core-curriculum changes should be monitored to see if a non-laboratory geology course should be offered.

Foreign Lang 05 Program Review

- There is a need to expand alternative delivery methods of courses and to consider classes for native speakers of Spanish.
- The language lab upgrade and software purchases to allow state of the art language instruction has rejuvenated the program.

Chemistry 06-07 Program Review

- The Chemistry program received an NSF funded grant to have a regional NMR Spectroscopy Lab. This lab is used by chemistry faculty throughout the Alamo District as well as small 4 year colleges in the San Antonio area. This center provides access to equipment and learning opportunities that would normally not be available to community college students (used by organic chemistry students).

Appendix F.2

- Chemistry faculty professional development initiatives: NSF grants, education innovations training(Tarleton State), and Process Oriented Guided Inquiry Learning (Texas Lutheran)

Biology 06-07 Program Review

- Existing Biology courses were updated and three new courses were added—a 2 semester General Biology for Science Majors and an Environmental Biology Lab course. It also reports that laptop computers are being used in all A & P courses.
- Instructional aides for lab activities for Biology 2401 and 2402 were developed.
- It states that Biol 1408 and Biol 1409 will include components that focus on the needs of teacher education majors—revised lab exercises to incorporated the TEKS state standards that elementary students must master and teachers must teach and Biol 2401 and 2402 use computer technology to support laboratory instruction. Lab exercises and worksheets, internet resources were expanded and a virtual laboratory component was added for these two courses according to the review.

Kinesiology 06-07 Program Review

This review documents that Kinesiology added 28 new courses.

Communications (COMM)07-08 Program Review

- The Communications Unit updates and maintains the Mac Lab so that it remains a state-of-the-art digital laboratory.
- The Communications Unit publishes “The Pulse” in both its printed and online versions – a student produced newsletter published twice each semester.
- The Communications Unit contributed to the International Program by participating in Study Abroad for communications majors in 2004, 2006, 2007 (two trips to Spain and one trip to Mexico).

Economics 07-08 Program Review

- The Economic department expanded offerings by 3 courses since the last program review: ECON 1301, ECON 1303, ECON 2311.
- The Economics department participated in Study Abroad (China) with ECON 2311 – Economic Geography
- Economics developed an AA in International Relations

Appendix F.3

Unit Plans Impacting Core Courses at Palo Alto College

Unit Plans 2010/2011

- Creation of a new AA Health degree by Kinesiology
- Math 1414 (a College Algebra course for STEM Majors) is created and offered
- Collaboration among Drama, Fine Arts, Dance, Music, Humanities, and Student Activities to provide cultural activities for Palo Alto College and Southside Communities
- Speech will broaden course offerings by adding the new core Speech course – SPCH 1315
- Music will develop the Palo Alto Music Library by providing recordings of historical importance in divers genres, listening stations and musical scores for student research
- The economics department will purchase updated versions of the telecourse economics video program to enhance student learning
- The geography department will purchase updated geography DVDs and updated geography wall map sets
- The communications department will increase student access to state-of-the-art technology

Palo Alto College Strategies for High Risk Courses

(reported for Spring 2009 Courses)

Disciplines listed below have had at least two meetings either with the Dean, Vice President of Academic Affairs and/or the President to discuss and contemplate strategies for courses listed below the 70% success rate.

ARTS 1301 (Art Appreciation, 61.2%)

- Look for new curricular best practices & other delivery methods. Explore online resources to support a more interactive classroom experience.
- Incorporate more Blackboard Vista in face-to-face classes.
- Make better use of Early Alert program.
- Provide better training of adjuncts.

BCIS 1305 (Business Computer Applications, 62.8%) and COSC 1301 (Introduction to Computer and Information Systems, 55.4%)

- Evaluate student computer skills at first class meeting as an early gauge of probable success.
- Create an assignment due before census date in order to identify no-show students in online classes.
- Make use of the Early Alert Report.
- Refer struggling students for tutoring.
- Use cooperative learning techniques to bolster retention.
- Offer 30% of department course offerings in FLEX format.

BIOL 1322 (Nutrition, 64.4%)

- Develop a nutrition course for non-majors.
- Develop a pre-requisite course for the BIOL 1322.

BIOL 1408 (General Biology for Non-science Majors, 56.4%)

- Encourage use of resources external to course, e.g. Science Learning Lab, SmartThinking tutoring, textbook websites, etc.
- Increase number of assignments given in order to help students keep up with the material and to reduce the impact of any one assignment.
- Provide students with an opportunity to correct items missed on lecture exams for additional credit.
- Increase instructor efforts in pro-active intervention when students are not doing well.
- Institute peer study groups
- Develop students' sense of ownership of the class by allowing students to have some choice on areas of study.
- Decrease the number of online sections.

Appendix F.4

- Make use of professional development opportunities to create a better design for online classes.

BIOL 2306 (Environmental Biology, 56.7%) and BIOL 2401 (Anatomy & Physiology I, 33%)

- Identify core concepts and standardize the course content.
- Assign the same instructor to lecture and lab in order to have a more seamless interface.
- Change assessment structure: Reduce the weight of the final exam, increase the weight of projects, and allow for some (5 pts) extra credit on exams. Conduct a minimum of 10 quizzes and drop one quiz grade; allow collaborative work on some quizzes. Increase opportunities for collaborative work in labs and require a practice practical before each practical exam. Increase the percentage of critical thinking questions on each exam.
- Remove online A&P I and create a hybrid A&P I.
- Introduce an SI component.
- Integrate Science Learning Lab requirements into each course in order to increase students' awareness and use of that tutoring resource.
- Provide professional development in the area of teaching practices for biology faculty (less lecture and more collaborative work, greater student engagement, greater exercise of critical thinking skills).
- Make more efficient, more consistent use of the Early Alert process.

CHEM 1311 (General Chemistry I, 46.3%)

- There is a MATH 1314 pre-requisite for this course. Work with faculty to confirm that all enrolled students have met this requirement.
- Consider developing a learning community with MATH 1314 and CHEM 1311 as an alternative to the MATH 1314 pre-requisite.

ECON 2302 (Principals of Microeconomics, 61.4%)

- The college-level basic skill requirements in place for fall 2010 may remedy the low success rate in this course (fall 2009 PGR was 69.5%).
- Professional development for faculty designing online courses may raise the uneven online PGRs to a common level.

ENGL 0301 (Basic English II, 43.8%)

- Developmental English faculty have re-written the curriculum and changed the format of delivery for the entire developmental English sequence in order to model that at NVC. Full implementation is expected for fall 2010, and a subsequent increase in PGR is expected.

Appendix F.4

ENGL 1301 (Freshman Composition I, 55.3%)

- Arrive at common curriculum and achieve more standardization of course requirements. Current SACS re-accreditation efforts are helping to revisit and develop new SLO's in this area.
- Chair evaluation by section and instructor—pinpoint whether problems lie with particular faculty members.

GOVT 2305 and GOVT 2306 (National Government, 68.7%, and State Government, 68.4%)

- PGRs for these government courses for fall 2009 are reported at 75.% and 76.5%, respectively.

HIST 1301 (History of the United States Part I, 55.6%)

- New skill level requirements in place for fall 2010 may increase PGRs for these courses

HUMA 1301 (Introduction to the Humanities, 63.9%)

- Review of individual faculty success rates, paired with professional development opportunities may raise success rates for this course.

MATH 0301, 0302, and 0303 (Developmental Mathematics Sequence, 47% 37.8%, and 47.8%, respectively)

- Cohorts created by pairing Flex I and Flex II MATH 0300 and 0301 classes have brought initial success rates for MATH 0300 and 0301 to 75% and 60%, respectively. Paired Flex sectioning for MATH 0302 and 0303 will be introduced in fall 2010, and flex sections for non-paired developmental math classes will be increased as well.

MATH 1314 (College Algebra, 49.1%)

- In fall 2009 the Pre-calculus track for College Algebra (MATH 1414) was introduced at PAC, and all MATH 1314 classes changed to the nonSTEM curriculum. The average PGR reported for MATH 1314 for fall 2009 was 58.4%, almost 10 percentage points higher. Math faculty will continue to refine the nonSTEM curriculum and additional faculty experience with the curriculum will help to further increase student success rates.

MUSI 1306 (Music Appreciation, 67.1%)

- Look for new best practices & other delivery methods. Explore online resources to support a more interactive classroom experience.

READ 0301 (Reading II, 54.1%)

- Adjustments made to the curriculum as a result of cross-college alignment may contribute toward increased success for this course.
- Faculty have committed to train adjuncts to utilize the same approach as the full-time faculty in administering the Nelson/Denny the first week of class to potentially move students to a higher section where warranted.

Appendix F.4

SDEV 0170 (Strategies for Succeeding in College, 62.3%)

- PGR for SDEV 0170 for Fall 2009 is reported at 72.8%

SOCI 1301 (Introduction to Sociology, 65.1%)

- Allow students to use note cards in class to encourage better test preparation.
- Codify specific learning outcomes and align these with assessments.
- Build in completion incentives: dropping lowest test grades, etc.
- Provide students better access to course materials online (PALS, Blackboard, etc.)
- Professional development for SOCI faculty in order to support more innovative classroom delivery.

SPAN 1411 (Elementary Spanish I, 58.7%)

- PGR for Fall 2009 for this course is reported to be 75.5%

SPEECH 1311 and 1321 (Fundamentals of Speech, 56.5%, and Business and Professional Speech, 68.4%)

- Utilize Early Alert more effectively.
- Modernize classroom methodology (e.g. more collaborative work, introduce interactive software).
- Incorporate Blackboard Vista to enhance traditional classroom.
- Try one face-to-face section in the 14-week format.

IN GENERAL:

- Research methods for ensuring that the student enrolled in an online course is the person actually taking it. (Eleanor Skelley)
- Revisit withdrawal process for online students (require conversation w/instructor, etc.).
- Close registration for online classes earlier than for face-to-face classes (on theory that last-minute registrants are often the first to drop, or the most likely to do poorly).
- Possibly require a higher minimum GPA for internet students.

Appendix F.4

Disciplines where we have not yet had at two meetings yet:

ACCT 2301 and 2302 (Principals of Accounting I and II, 57.8% and 58.8%)

- Suggestions: ACCT 22301 has skill levels set at one level below college level for math, and two levels below for reading and English. Are these appropriate? Also, ACCT 2302 is the prerequisite for ACCT 2301, which makes the low success rate in 2302 puzzling. Is there a lack of alignment between the two? It may be that a review of the curriculum for both courses is due. Also it used to be, I believe, that ACNT1301 was recommended as a pre-reg for the weaker students going into ACCT 2301. This might be revisited. Or, although this requires more funding, increase tutoring resources for the lab portion?

KINE 1196 (Weight Training I, 62.6%)

Suggestions: Revisit curriculum and adjunct training.