

American River College

Online versus Face2Face (Onground) Achievement Gap

The following compares the performance of online and onground students in courses for which at least four online and at least four face2face (f2f) classes have been offered over the last three years. A three year horizon F14 - S17) was chosen for this analysis to maximize the number of courses for which such a comparison is possible, but also to increase the statistical reliability of the reported performance metrics when disaggregated by gender and ethnicity. Note that for purposes of this report, online is defined as a Psoft instruction-mode of 71 or 72 and face2face is defined as Psoft instruction_mode of 02.

Three grade performance metrics are provided below in order to better understand this issue. The course mastery rate reflects the percent of A or B grades, the course success rate reflects the percent of A, B, C, or P grades, and the drop rate reflects the percent of W grade notations as of the permanent roster date.

Course Mastery Rate (% A or B)

Subject	Crs#	ONLINE		F2F		ONLINE	F2F	Mastery Δ
		Total Enrls	A or B Grades	Total Enrls	A or B Grades	Mastery Rate	Mastery Rate	
ACCT	101	460	179	676	299	39%	44%	-5
ACCT	107	424	182	132	81	43%	61%	-18
ACCT	111	238	156	192	109	66%	57%	9
ACCT	301	360	186	1,867	854	52%	46%	6
ACCT	311	354	215	1,020	636	61%	62%	-2
AH	110	951	753	505	297	79%	59%	20
ANTH	300	526	195	2,561	1,356	37%	53%	-16
ANTH	310	263	227	1,882	1,026	86%	55%	32
ART	320	52	32	518	284	62%	55%	7
ARTH	300	362	199	3,630	2,329	55%	64%	-9
ARTNM	328	327	178	78	48	54%	62%	-7
ARTPH	305	217	128	269	184	59%	68%	-9
ASTR	300	197	171	681	184	87%	27%	60
BIOL	300	258	137	2,387	1,019	53%	43%	10
BUS	100	264	85	163	71	32%	44%	-11
BUS	105	202	93	213	85	46%	40%	6
BUS	110	149	84	160	71	56%	44%	12
BUS	300	1,103	474	1,421	652	43%	46%	-3
BUS	310	281	150	313	135	53%	43%	10
BUS	320	516	291	462	219	56%	47%	9
BUS	330	153	66	195	121	43%	62%	-19
BUS	340	907	535	1,156	841	59%	73%	-14
BUS	350	296	144	205	84	49%	41%	8
CISA	305	799	330	297	157	41%	53%	-12
CISA	315	1,124	545	343	224	48%	65%	-17
CISC	310	589	339	483	275	58%	57%	1
CISC	320	458	318	147	91	69%	62%	8
CISC	361	188	80	87	30	43%	34%	8
CISP	360	641	242	174	88	38%	51%	-13
CISP	370	129	39	200	80	30%	40%	-10
CISW	300	91	63	189	113	69%	60%	9
DESGN	100	48	31	392	276	65%	70%	-6
DESGN	302	69	44	80	49	64%	61%	3
ECE	300	188	79	1,261	626	42%	50%	-8
ECE	331	191	99	354	189	52%	53%	-2
ECE	415	139	63	200	118	45%	59%	-14
ECE	430	184	108	507	355	59%	70%	-11
ECON	302	1,016	432	1,893	945	43%	50%	-7
ECON	304	929	424	1,194	676	46%	57%	-11
ECON	320	159	84	139	68	53%	49%	4
ENGRD	310	254	98	939	510	39%	54%	-16

ENGRD	312	88	42	149	62	48%	42%	6
ENGWR	300	1,611	690	9,153	4,607	43%	50%	-8
ENGWR	301	1,461	774	3,161	1,919	53%	61%	-8
ENGWR	302	881	442	1,688	1,028	50%	61%	-11
ENGWR	306	46	0	2,434	1	0%	0%	0
FSE	300	322	64	128	37	20%	29%	-9
GERON	300	254	106	64	37	42%	58%	-16
GERON	302	381	215	57	38	56%	67%	-10
HCD	310	341	182	1,795	1,191	53%	66%	-13
HCD	330	838	435	659	377	52%	57%	-5
HEED	300	695	269	604	273	39%	45%	-6
HEED	308	318	91	48	12	29%	25%	4
HIST	310	461	193	2,878	1,104	42%	38%	4
HIST	311	328	111	1,965	535	34%	27%	7
HIST	330	408	251	2,804	1,531	62%	55%	7
HUM	300	452	212	877	397	47%	45%	2
IDES	300	106	22	183	89	21%	49%	-28
IDES	330	95	50	106	59	53%	56%	-3
LA	300	341	171	62	46	50%	74%	-24
LA	321	139	106	92	75	76%	82%	-5
MATH	100	661	215	5,959	2,492	33%	42%	-9
MATH	120	882	381	5,865	2,572	43%	44%	-1
MGMT	300	543	264	46	20	49%	43%	5
MKT	300	714	388	336	204	54%	61%	-6
MUFHL	300	1,226	736	884	506	60%	57%	3
MUFHL	308	300	154	225	140	51%	62%	-11
MUFHL	315	532	390	330	187	73%	57%	17
MUFHL	321	1,098	651	434	269	59%	62%	-3
MUFHL	330	457	335	488	237	73%	49%	25
MUP	400	35	24	22	15	69%	68%	0
MUP	401	5	5	31	29	100%	94%	6
NURSE	320	214	166	95	56	78%	59%	19
NUTRI	300	2,208	1,170	4,775	2,434	53%	51%	2
NUTRI	320	108	50	86	31	46%	36%	10
PHYS	310	561	465	996	655	83%	66%	17
POLS	301	946	442	5,439	2,325	47%	43%	4
PSYC	300	2,181	847	4,607	2,100	39%	46%	-7
PSYC	320	427	271	384	156	63%	41%	23
PSYC	330	135	83	947	501	61%	53%	9
PSYC	356	801	391	3,088	1,131	49%	37%	12
PSYC	370	979	530	1,659	1,133	54%	68%	-14
PSYC	373	449	204	330	127	45%	38%	7
PSYC	374	292	118	30	16	40%	53%	-13
RE	300	873	396	168	82	45%	49%	-3
SOC	300	563	240	2,876	1,312	43%	46%	-3
SOC	335	263	117	38	17	44%	45%	0
SPAN	401	320	167	1,260	618	52%	49%	3
SPAN	402	130	72	454	254	55%	56%	-1
SPAN	412	160	132	196	138	83%	70%	12
STAT	300	578	283	4,304	2,119	49%	49%	0
TOTAL		44,263	22,391	104,824	51,149	51%	49%	2

Course Success Rate (% A,B,C,P)

Subject	Crs#	ONLINE		F2F		ONLINE	F2F	Success Δ
		Total Enrls	Success Grades	Total Enrls	Success Grades	Success Rate	Success Rate	
ACCT	101	460	221	676	392	48%	58%	-10
ACCT	107	424	264	132	102	62%	77%	-15
ACCT	111	238	185	192	146	78%	76%	2
ACCT	301	360	219	1,867	1,222	61%	65%	-5
ACCT	311	354	258	1,020	811	73%	80%	-7
AH	110	951	779	505	372	82%	74%	8

ANTH	300
ANTH	310
ART	320
ARTH	300
ARTNM	328
ARTPH	305
ASTR	300
BIOL	300
BUS	100
BUS	105
BUS	110
BUS	300
BUS	310
BUS	320
BUS	330
BUS	340
BUS	350
CISA	305
CISA	315
CISC	310
CISC	320
CISC	361
CISP	360
CISP	370
CISW	300
DESGN	100
DESGN	302
ECE	300
ECE	331
ECE	415
ECE	430
ECON	302
ECON	304
ECON	320
ENGRD	310
ENGRD	312
ENGWR	300
ENGWR	301
ENGWR	302
ENGWR	306
FSE	300
GERON	300
GERON	302
HCD	310
HCD	330
HEED	300
HEED	308
HIST	310
HIST	311
HIST	330
HUM	300
IDES	300
IDES	330
LA	300
LA	321
MATH	100
MATH	120
MGMT	300
MKT	300
MUFHL	300
MUFHL	308
MUFHL	315
MUFHL	321

526	250
263	238
52	36
362	249
327	195
217	136
197	180
258	188
264	119
202	116
149	114
1,103	587
281	186
516	349
153	98
907	664
296	179
799	398
1,124	669
589	416
458	341
188	122
641	355
129	61
91	68
48	33
69	49
188	100
191	119
139	81
184	126
1,016	592
929	571
159	101
254	147
88	54
1,611	911
1,461	942
881	512
46	23
322	106
254	126
381	243
341	213
838	467
695	383
318	152
461	267
328	173
408	316
452	283
106	32
95	56
341	208
139	112
661	315
882	528
543	304
714	452
1,226	791
300	212
532	444
1,098	716

2,561	1,768
1,882	1,288
518	355
3,630	2,688
78	57
269	198
681	372
2,387	1,472
163	95
213	114
160	108
1,421	866
313	188
462	289
195	146
1,156	997
205	101
297	187
343	260
483	343
147	101
87	50
174	115
200	118
189	126
392	301
80	59
1,261	750
354	226
200	151
507	389
1,893	1,330
1,194	907
139	89
939	690
149	96
9,153	5,954
3,161	2,404
1,688	1,278
2,434	1,577
128	60
64	44
57	44
1,795	1,420
659	437
604	398
48	27
2,878	1,774
1,965	937
2,804	2,024
877	550
183	111
106	65
62	47
92	78
5,959	3,580
5,865	3,794
46	26
336	240
884	562
225	155
330	230
434	302

48%	69%
90%	68%
69%	69%
69%	74%
60%	73%
63%	74%
91%	55%
73%	62%
45%	58%
57%	54%
77%	68%
53%	61%
66%	60%
68%	63%
64%	75%
73%	86%
60%	49%
50%	63%
60%	76%
71%	71%
74%	69%
65%	57%
55%	66%
47%	59%
75%	67%
69%	77%
71%	74%
53%	59%
62%	64%
58%	76%
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33%	47%
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64%	77%
62%	79%
56%	66%
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48%	56%
58%	62%
53%	48%
77%	72%
63%	63%
30%	61%
59%	61%
61%	76%
81%	85%
48%	60%
60%	65%
56%	57%
63%	71%
65%	64%
71%	69%
83%	70%
65%	70%

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MUFHL	330	457	384	488	346	84%	71%	13
MUP	400	35	25	22	15	71%	68%	3
MUP	401	5	5	31	29	100%	94%	6
NURSE	320	214	175	95	64	82%	67%	14
NUTRI	300	2,208	1,437	4,775	3,075	65%	64%	1
NUTRI	320	108	68	86	42	63%	49%	14
PHYS	310	561	491	996	752	88%	76%	12
POLS	301	946	620	5,439	3,448	66%	63%	2
PSYC	300	2,181	1,176	4,607	2,878	54%	62%	-9
PSYC	320	427	299	384	229	70%	60%	10
PSYC	330	135	106	947	638	79%	67%	11
PSYC	356	801	491	3,088	1,652	61%	53%	8
PSYC	370	979	648	1,659	1,255	66%	76%	-9
PSYC	373	449	246	330	178	55%	54%	1
PSYC	374	292	144	30	20	49%	67%	-17
RE	300	873	468	168	102	54%	61%	-7
SOC	300	563	320	2,876	1,740	57%	61%	-4
SOC	335	263	135	38	21	51%	55%	-4
SPAN	401	320	204	1,260	775	64%	62%	2
SPAN	402	130	95	454	337	73%	74%	-1
SPAN	412	160	141	196	167	88%	85%	3
STAT	300	578	372	4,304	2,897	64%	67%	-3
TOTAL		44,263	27,550	104,824	69,213	62%	66%	-4

Drop Rate (% W)

Subject	Crs#	ONLINE		F2F		ONLINE	F2F	Drop Δ
		Total Enrls	W Grades	Total Enrls	W Grades	Drop Rate	Drop Rate	
ACCT	101	460	175	676	142	38%	21%	17
ACCT	107	424	116	132	16	27%	12%	15
ACCT	111	238	39	192	29	16%	15%	1
ACCT	301	360	117	1,867	369	33%	20%	13
ACCT	311	354	58	1,020	109	16%	11%	6
AH	110	951	91	505	68	10%	13%	-4
ANTH	300	526	189	2,561	356	36%	14%	22
ANTH	310	263	14	1,882	312	5%	17%	-11
ART	320	52	8	518	75	15%	14%	1
ARTH	300	362	64	3,630	358	18%	10%	8
ARTNM	328	327	71	78	12	22%	15%	6
ARTPH	305	217	50	269	47	23%	17%	6
ASTR	300	197	7	681	113	4%	17%	-13
BIOL	300	258	33	2,387	397	13%	17%	-4
BUS	100	264	87	163	33	33%	20%	13
BUS	105	202	52	213	65	26%	31%	-5
BUS	110	149	28	160	46	19%	29%	-10
BUS	300	1,103	321	1,421	249	29%	18%	12
BUS	310	281	82	313	72	29%	23%	6
BUS	320	516	79	462	90	15%	19%	-4
BUS	330	153	47	195	16	31%	8%	23
BUS	340	907	113	1,156	80	12%	7%	6
BUS	350	296	62	205	64	21%	31%	-10
CISA	305	799	268	297	68	34%	23%	11
CISA	315	1,124	298	343	54	27%	16%	11
CISC	310	589	114	483	65	19%	13%	6
CISC	320	458	87	147	15	19%	10%	9
CISC	361	188	48	87	13	26%	15%	11
CISP	360	641	167	174	31	26%	18%	8
CISP	370	129	36	200	56	28%	28%	0
CISW	300	91	12	189	37	13%	20%	-6
DESGN	100	48	10	392	57	21%	15%	6
DESGN	302	69	14	80	9	20%	11%	9
ECE	300	188	44	1,261	246	23%	20%	4

ECE	331	191	31	354	76	16%	21%	-5
ECE	415	139	37	200	29	27%	15%	12
ECE	430	184	27	507	55	15%	11%	4
ECON	302	1,016	229	1,893	284	23%	15%	8
ECON	304	929	181	1,194	135	19%	11%	8
ECON	320	159	30	139	24	19%	17%	2
ENGRD	310	254	70	939	158	28%	17%	11
ENGRD	312	88	24	149	36	27%	24%	3
ENGWR	300	1,611	403	9,153	1,763	25%	19%	6
ENGWR	301	1,461	341	3,161	456	23%	14%	9
ENGWR	302	881	259	1,688	270	29%	16%	13
ENGWR	306	46	9	2,434	176	20%	7%	12
FSE	300	322	99	128	22	31%	17%	14
GERON	300	254	85	64	10	33%	16%	18
GERON	302	381	85	57	9	22%	16%	7
HCD	310	341	62	1,795	167	18%	9%	9
HCD	330	838	171	659	95	20%	14%	6
HEED	300	695	206	604	91	30%	15%	15
HEED	308	318	112	48	7	35%	15%	21
HIST	310	461	102	2,878	517	22%	18%	4
HIST	311	328	80	1,965	585	24%	30%	-5
HIST	330	408	51	2,804	433	13%	15%	-3
HUM	300	452	111	877	161	25%	18%	6
IDES	300	106	43	183	38	41%	21%	20
IDES	330	95	29	106	18	31%	17%	14
LA	300	341	88	62	14	26%	23%	3
LA	321	139	22	92	6	16%	7%	9
MATH	100	661	188	5,959	1,148	28%	19%	9
MATH	120	882	165	5,865	926	19%	16%	3
MGMT	300	543	162	46	10	30%	22%	8
MKT	300	714	143	336	61	20%	18%	2
MUFHL	300	1,226	214	884	100	17%	11%	6
MUFHL	308	300	43	225	37	14%	16%	-2
MUFHL	315	532	39	330	24	7%	7%	0
MUFHL	321	1,098	114	434	78	10%	18%	-8
MUFHL	330	457	42	488	68	9%	14%	-5
MUP	400	35	6	22	4	17%	18%	-1
MUP	401	5	0	31	2	0%	6%	-6
NURSE	320	214	21	95	24	10%	25%	-15
NUTRI	300	2,208	422	4,775	915	19%	19%	0
NUTRI	320	108	27	86	29	25%	34%	-9
PHYS	310	561	47	996	130	8%	13%	-5
POLS	301	946	183	5,439	847	19%	16%	4
PSYC	300	2,181	659	4,607	870	30%	19%	11
PSYC	320	427	94	384	75	22%	20%	2
PSYC	330	135	21	947	179	16%	19%	-3
PSYC	356	801	139	3,088	733	17%	24%	-6
PSYC	370	979	198	1,659	238	20%	14%	6
PSYC	373	449	130	330	65	29%	20%	9
PSYC	374	292	81	30	6	28%	20%	8
RE	300	873	216	168	40	25%	24%	1
SOC	300	563	114	2,876	531	20%	18%	2
SOC	335	263	78	38	10	30%	26%	3
SPAN	401	320	85	1,260	326	27%	26%	1
SPAN	402	130	22	454	78	17%	17%	0
SPAN	412	160	15	196	14	9%	7%	2
STAT	300	578	142	4,304	734	25%	17%	8
TOTAL		44,263	9,798	104,824	17,706	22%	17%	5

Course Mastery Rate (% A or B)

Group	ONLINE		F2F		ONLINE	F2F	Mastery Δ
	Total Enrls	A or B Grades	Total Enrls	A or B Grades	Mastery Rate	Mastery Rate	
Female	28,809	14,657	55,754	28,481	51%	51%	0
Male	14,500	7,260	46,824	21,408	50%	46%	4
Unkn	954	474	4,141	994	50%	24%	26
AfrAmr	4,626	1,472	10,780	3,531	32%	33%	-1
Asian	4,093	2,331	10,089	5,616	57%	56%	1
Filipino	863	446	2,523	1,382	52%	55%	-3
Hisp/Latino	8,395	3,791	25,562	10,975	45%	43%	2
Multi-Race	2,825	1,225	7,679	3,393	43%	44%	-1
NatAmr	275	112	693	292	41%	42%	-1
Oth N-Wht	332	159	500	316	48%	63%	-15
PacIsl	430	184	1,024	437	43%	43%	0
Unkn	604	319	1,164	655	53%	56%	-3
White	21,820	12,352	44,810	24,551	57%	55%	2

Course Success Rate (% A,B,C,P)

Group	ONLINE		F2F		ONLINE	F2F	Success Δ
	Total Enrls	Success Grades	Total Enrls	Success Grades	Success Rate	Success Rate	
Female	28,809	17,955	55,754	37,699	62%	68%	-5
Male	14,500	9,001	46,824	28,832	62%	62%	1
Unkn	954	594	4,141	2,557	62%	62%	1
AfrAmr	4,626	2,093	10,780	5,579	45%	52%	-7
Asian	4,093	2,776	10,089	7,335	68%	73%	-5
Filipino	863	545	2,523	1,862	63%	74%	-11
Hisp/Latino	8,395	4,866	25,562	15,720	58%	61%	-4
Multi-Race	2,825	1,543	7,679	4,728	55%	62%	-7
NatAmr	275	152	693	421	55%	61%	-5
Oth N-Wht	332	215	500	362	65%	72%	-8
PacIsl	430	251	1,024	595	58%	58%	0
Unkn	604	390	1,164	832	65%	71%	-7
White	21,820	14,719	44,810	31,779	67%	71%	-3

Drop Rate (% W)

Group	ONLINE		F2F		ONLINE	F2F	Drop Δ
	Total Enrls	W Grades	Total Enrls	W Grades	Drop Rate	Drop Rate	
Female	28,809	6,384	55,754	9,316	22%	17%	-5
Male	14,500	3,198	46,824	7,981	22%	17%	-5
Unkn	954	216	4,141	409	23%	10%	-13
AfrAmr	4,626	1,400	10,780	2,597	30%	24%	-6
Asian	4,093	813	10,089	1,400	20%	14%	-6
Filipino	863	197	2,523	318	23%	13%	-10
Hisp/Latino	8,395	1,993	25,562	4,577	24%	18%	-6
Multi-Race	2,825	743	7,679	1,495	26%	19%	-7
NatAmr	275	69	693	138	25%	20%	-5
Oth N-Wht	332	80	500	78	24%	16%	-8
PacIsl	430	112	1,024	214	26%	21%	-5
Unkn	604	125	1,164	188	21%	16%	-5
White	21,820	4,266	44,810	6,701	20%	15%	-5