Measures 6a and 6b

Taken from data compiled by Collin College Institutional Research Office

Grade Distribution, Course Completion and Course Success Rates by Course

Engineering FOS

		Grade Assigned						Grade Distribution							
	Enrollment	A	B	C	D	F	W	A	B	C	D	F	W	Completion Rate	Success Rate
CHEM 1412															
Fall 2009	106	20	34	23	7	9	13	18.87%	32.08%	21.70%	6.60%	8.49%	12.26%	87.74%	72.64%
Spring 2010	159	42	36	32	11	15	23	26.42%	22.64%	20.13%	6.92%	9.43%	14.47%	85.53%	69.18%
Summer I 2010	43	12	18	4	2	1	6	27.91%	41.86%	9.30%	4.65%	2.33%	13.95%	86.05%	79.07%
Summer II 2010	97	26	32	21	9	3	6	26.80%	32.99%	21.65%	9.28%	3.09%	6.19%	93.81%	81.44%
Fall 2010	132	21	30	30	23	16	12	15.91%	22.73%	22.73%	17.42%	12.12%	9.09%	90.91%	61.36%
Spring 2011	180	23	60	33	23	23	18	12.78%	33.33%	18.33%	12.78%	12.78%	10.00%	90.00%	64.44%
Summer I 2011	44	9	20	9	0	1	5	20.45%	45.45%	20.45%	0.00%	2.27%	11.36%	88.64%	86.36%
Summer II 2011	106	31	29	33	3	4	6	29.25%	27.36%	31.13%	2.83%	3.77%	5.66%	94.34%	87.74%
Fall 2011	135	29	38	25	15	10	18	21.48%	28.15%	18.52%	11.11%	7.41%	13.33%	86.67%	68.15%
Spring 2012	201	42	48	44	29	19	19	20.90%	23.88%	21.89%	14.43%	9.45%	9.45%	90.55%	66.67%
Summer I 2012	63	17	17	18	5	2	4	26.98%	26.98%	28.57%	7.94%	3.17%	6.35%	93.65%	82.54%
Summer II 2012	107	32	46	17	4	6	2	29.91%	42.99%	15.89%	3.74%	5.61%	1.87%	98.13%	88.79%
Fall 2012	151	42	42	34	8	13	12	27.81%	27.81%	22.52%	5.30%	8.61%	7.95%	92.05%	78.15%
Spring 2013	182	41	48	34	24	16	19	22.53%	26.37%	18.68%	13.19%	8.79%	10.44%	89.56%	67.58%
Summer I 2013	63	14	16	14	4	6	9	22.22%	25.40%	22.22%	6.35%	9.52%	14.29%	85.71%	69.84%
Summer II 2013	102	18	32	29	9	9	5	17.65%	31.37%	28.43%	8.82%	8.82%	4.90%	95.10%	77.45%
Fall 2013	153	19	45	38	8	15	28	12.42%	29.41%	24.84%	5.23%	9.80%	18.30%	81.70%	66.67%
Spring 2014	227	40	59	50	23	31	24	17.62%	25.99%	22.03%	10.13%	13.66%	10.57%	89.43%	65.64%
Summer I 2014	66	15	21	16	4	3	7	22.73%	31.82%	24.24%	6.06%	4.55%	10.61%	89.39%	78.79%
Summer II 2014	113	36	39	24	3	2	9	31.86%	34.51%	21.24%	2.65%	1.77%	7.96%	92.04%	87.61%
	2430	529	710	528	214	204	245	21.77%	29.22%	21.73%	8.81%	8.40%	10.08%	89.92%	72.72%
							GPA	2.524485							
PHYS 2425															
Fall 2009	101	31	32	15	8	6	9	30.69%	31.68%	14.85%	7.92%	5.94%	8.91%	91.09%	77.23%
Spring 2010	72	26	22	12	2	6	4	36.11%	30.56%	16.67%	2.78%	8.33%	5.56%	94.44%	83.33%
Summer I 2010	61	25	17	12	0	3	4	40.98%	27.87%	19.67%	0.00%	4.92%	6.56%	93.44%	88.52%
Summer II 2010															
Fall 2010	98	31	26	16	1	12	12	31.63%	26.53%	16.33%	1.02%	12.24%	12.24%	87.76%	74.49%
Spring 2011	89	29	31	11	2	10	6	32.58%	34.83%	12.36%	2.25%	11.24%	6.74%	93.26%	79.78%
Summer I 2011	68	29	22	12	0	2	3	42.65%	32.35%	17.65%	0.00%	2.94%	4.41%	95.59%	92.65%
Summer II 2011															
Fall 2011	95	34	28	11	2	9	11	35.79%	29.47%	11.58%	2.11%	9.47%	11.58%	88.42%	76.84%
Spring 2012	76	34	25	9	3	1	4	44.74%	32.89%	11.84%	3.95%	1.32%	5.26%	94.74%	89.47%
Summer I 2012	67	30	19	6	1	5	6	44.78%	28.36%	8.96%	1.49%	7.46%	8.96%	91.04%	82.09%
Summer II 2012															
Fall 2012	113	46	38	13	1	6	9	40.71%	33.63%	11.50%	0.88%	5.31%	7.96%	92.04%	85.84%
Spring 2013	74	30	22	6	2	7	7	40.54%	29.73%	8.11%	2.70%	9.46%	9.46%	90.54%	78.38%
Summer I 2013	67	26	28	8	0	0	5	38.81%	41.79%	11.94%	0.00%	0.00%	7.46%	92.54%	92.54%
Summer II 2013															
Fall 2013	131	48	42	11	7	9	14	36.64%	32.06%	8.40%	5.34%	6.87%	10.69%	89.31%	77.10%
Spring 2014	117	27	34	33	6	11	6	23.08%	29.06%	28.21%	5.13%	9.40%	5.13%	94.87%	80.34%
Summer I 2014	76	39	29	3	0	2	3	51.32%	38.16%	3.95%	0.00%	2.63%	3.95%	96.05%	93.42%
Summer II 2014															
	1305	485	415	178	35	89	103	37.16%	31.80%	13.64%	2.68%	6.82%	7.89%	92.11%	82.61%
							GPA	2.975042							

Measures 6a and 6b

Grade Distribution, Course Completion and Course Success Rates by Course

Engineering FOS

Taken from data compiled by Collin College Institutional Research Office

		Grade Assigned						Grade Distribution							
	Enrollment	A	B	C	D	F	W	A	B	C	D	F	W	Completion Rate	Success Rate
PHYS 2426															
Fall 2009	24	6	9	5	1	1	2	25.00%	37.50%	20.83%	4.17%	4.17%	8.33%	91.67%	83.33%
Spring 2010	72	34	25	7	1	4	1	47.22%	34.72%	9.72%	1.39%	5.56%	1.39%	98.61%	91.67%
Summer I 2010															
Summer II 2010	94	55	30	7	0	2	0	58.51%	31.91%	7.45%	0.00%	2.13%	0.00%	100.00%	97.87%
Fall 2010	26	6	9	5	2	2	2	23.08%	34.62%	19.23%	7.69%	7.69%	7.69%	92.31%	76.92%
Spring 2011	61	25	24	5	5	1	1	40.98%	39.34%	8.20%	8.20%	1.64%	1.64%	98.36%	88.52%
Summer I 2011															
Summer II 2011	99	58	23	14	0	1	3	58.59%	23.23%	14.14%	0.00%	1.01%	3.03%	96.97%	95.96%
Fall 2011	24	8	11	3	0	1	1	33.33%	45.83%	12.50%	0.00%	4.17%	4.17%	95.83%	91.67%
Spring 2012	62	30	21	4	1	4	2	48.39%	33.87%	6.45%	1.61%	6.45%	3.23%	96.77%	88.71%
Summer I 2012															
Summer II 2012	94	48	33	12	0	0	1	51.06%	35.11%	12.77%	0.00%	0.00%	1.06%	98.94%	98.94%
Fall 2012	46	12	10	11	5	6	2	26.09%	21.74%	23.91%	10.87%	13.04%	4.35%	95.65%	71.74%
Spring 2013	90	34	24	15	3	6	8	37.78%	26.67%	16.67%	3.33%	6.67%	8.89%	91.11%	81.11%
Summer I 2013															
Summer II 2013	104	53	35	9	2	2	3	50.96%	33.65%	8.65%	1.92%	1.92%	2.88%	97.12%	93.27%
Fall 2013	49	31	7	5	2	2	2	63.27%	14.29%	10.20%	4.08%	4.08%	4.08%	95.92%	87.76%
Spring 2014	71	22	29	10	1	5	4	30.99%	40.85%	14.08%	1.41%	7.04%	5.63%	94.37%	85.92%
Summer I 2014	23	8	10	5	0	0	0	34.78%	43.48%	21.74%	0.00%	0.00%	0.00%	100.00%	100.00%
Summer II 2014	104	58	37	5	1	2	1	55.77%	35.58%	4.81%	0.96%	1.92%	0.96%	99.04%	96.15%
	1043	488	337	122	24	39	33	46.79%	32.31%	11.70%	2.30%	3.74%	3.16%	96.84%	90.80%
							GPA	3.19901							
MATH 2413															
Fall 2009	214	50	45	38	32	37	12	23.36%	21.03%	17.76%	14.95%	17.29%	5.61%	94.39%	62.15%
Spring 2010	244	52	51	54	16	45	26	21.31%	20.90%	22.13%	6.56%	18.44%	10.66%	89.34%	64.34%
Summer I 2010	132	36	23	28	10	14	21	27.27%	17.42%	21.21%	7.58%	10.61%	15.91%	84.09%	65.91%
Summer II 2010	50	15	19	9	0	3	4	30.00%	38.00%	18.00%	0.00%	6.00%	8.00%	92.00%	86.00%
Fall 2010	249	49	59	46	20	49	26	19.68%	23.69%	18.47%	8.03%	19.68%	10.44%	89.56%	61.85%
Spring 2011	265	52	53	49	24	52	35	19.62%	20.00%	18.49%	9.06%	19.62%	13.21%	86.79%	58.11%
Summer I 2011	131	27	37	26	10	15	16	20.61%	28.24%	19.85%	7.63%	11.45%	12.21%	87.79%	68.70%
Summer II 2011	44	12	9	9	6	0	8	27.27%	20.45%	20.45%	13.64%	0.00%	18.18%	81.82%	68.18%
Fall 2011	254	54	50	44	28	53	25	21.26%	19.69%	17.32%	11.02%	20.87%	9.84%	90.16%	58.27%
Spring 2012	280	62	59	56	16	54	33	22.14%	21.07%	20.00%	5.71%	19.29%	11.79%	88.21%	63.21%
Summer I 2012	128	27	34	22	9	22	14	21.09%	26.56%	17.19%	7.03%	17.19%	10.94%	89.06%	64.84%
Summer II 2012	51	21	12	7	3	5	3	41.18%	23.53%	13.73%	5.88%	9.80%	5.88%	94.12%	78.43%
Fall 2012	303	57	71	37	32	70	36	18.81%	23.43%	12.21%	10.56%	23.10%	11.88%	88.12%	54.46%
Spring 2013	303	62	77	52	21	34	19	20.46%	25.41%	17.16%	6.93%	11.22%	6.27%	81.19%	63.04%
Summer I 2013	119	17	29	17	15	30	11	14.29%	24.37%	14.29%	12.61%	25.21%	9.24%	90.76%	52.94%
Summer II 2013	49	11	13	9	7	7	2	22.45%	26.53%	18.37%	14.29%	14.29%	4.08%	95.92%	67.35%
Fall 2013	375	88	80	62	34	62	49	23.47%	21.33%	16.53%	9.07%	16.53%	13.07%	86.93%	61.33%
Spring 2014	317	86	57	44	27	61	42	27.13%	17.98%	13.88%	8.52%	19.24%	13.25%	86.75%	58.99%
Summer I 2014	138	36	27	26	16	22	11	26.09%	19.57%	18.84%	11.59%	15.94%	7.97%	92.03%	64.49%
Summer II 2014	65	16	14	15	6	10	4	24.62%	21.54%	23.08%	9.23%	15.38%	6.15%	93.85%	69.23%
	3711	830	819	650	332	645	397	22.37%	22.07%	17.52%	8.95%	17.38%	10.70%	88.28%	61.95%
							GPA	2.2616							

Measures 6a and 6b

Taken from data compiled by Collin College Institutional Research Office

Grade Distribution, Course Completion and Course Success Rates by Course

Engineering FOS

		Grade Assigned						Grade Distribution							
	Enrollment	A	B	C	D	F	W	A	B	C	D	F	W	Completion Rate	Success Rate
MATH 2414															
Fall 2009	97	21	15	17	16	19	9	21.65%	15.46%	17.53%	16.49%	19.59%	9.28%	90.72%	54.64%
Spring 2010	163	34	48	31	10	22	18	20.86%	29.45%	19.02%	6.13%	13.50%	11.04%	88.96%	69.33%
Summer I 2010	76	8	12	23	12	9	12	10.53%	15.79%	30.26%	15.79%	11.84%	15.79%	84.21%	56.58%
Summer II 2010	98	29	27	15	9	9	9	29.59%	27.55%	15.31%	9.18%	9.18%	9.18%	90.82%	72.45%
Fall 2010	137	20	30	23	14	23	27	14.60%	21.90%	16.79%	10.22%	16.79%	19.71%	80.29%	53.28%
Spring 2011	176	33	37	39	18	26	23	18.75%	21.02%	22.16%	10.23%	14.77%	13.07%	86.93%	61.93%
Summer I 2011	70	8	13	25	5	8	11	11.43%	18.57%	35.71%	7.14%	11.43%	15.71%	84.29%	65.71%
Summer II 2011	87	13	18	29	6	7	14	14.94%	20.69%	33.33%	6.90%	8.05%	16.09%	83.91%	68.97%
Fall 2011	158	25	27	24	17	45	20	15.82%	17.09%	15.19%	10.76%	28.48%	12.66%	87.34%	48.10%
Spring 2012	188	35	38	52	13	28	22	18.62%	20.21%	27.66%	6.91%	14.89%	11.70%	88.30%	66.49%
Summer I 2012	75	16	29	17	6	4	3	21.33%	38.67%	22.67%	8.00%	5.33%	4.00%	96.00%	82.67%
Summer II 2012	94	19	22	17	14	11	11	20.21%	23.40%	18.09%	14.89%	11.70%	11.70%	88.30%	61.70%
Fall 2012	192	30	33	34	20	46	29	15.63%	17.19%	17.71%	10.42%	23.96%	15.10%	84.90%	50.52%
Spring 2013	211	42	43	52	21	34	19	19.91%	20.38%	24.64%	9.95%	16.11%	9.00%	91.00%	64.93%
Summer I 2013	69	7	13	22	5	13	9	10.14%	18.84%	31.88%	7.25%	18.84%	13.04%	86.96%	60.87%
Summer II 2013	95	23	21	19	10	8	14	24.21%	22.11%	20.00%	10.53%	8.42%	14.74%	85.26%	66.32%
Fall 2013	211	37	51	29	15	44	35	17.54%	24.17%	13.74%	7.11%	20.85%	16.59%	83.41%	55.45%
Spring 2014	281	50	58	53	30	64	26	17.79%	20.64%	18.86%	10.68%	22.78%	9.25%	90.75%	57.30%
Summer I 2014	83	8	23	29	5	11	7	9.64%	27.71%	34.94%	6.02%	13.25%	8.43%	91.57%	72.29%
Summer II 2014	115	25	32	32	9	8	9	21.74%	27.83%	27.83%	7.83%	6.96%	7.83%	92.17%	77.39%
	2676	483	590	582	255	439	327	18.05%	22.05%	21.75%	9.53%	16.41%	12.22%	87.78%	61.85%
							GPA	2.180077							
Math 2415															
Fall 2009	54	7	11	11	5	16	4	12.96%	20.37%	20.37%	9.26%	29.63%	7.41%	92.59%	53.70%
Spring 2010	69	25	20	8	5	8	3	36.23%	28.99%	11.59%	7.25%	11.59%	4.35%	95.65%	76.81%
Summer I 2010	39	13	12	6	1	3	4	33.33%	30.77%	15.38%	2.56%	7.69%	10.26%	89.74%	79.49%
Summer II 2010															
Fall 2010	67	11	13	14	8	11	10	16.42%	19.40%	20.90%	11.94%	16.42%	14.93%	85.07%	56.72%
Spring 2011	68	15	17	17	8	8	3	22.06%	25.00%	25.00%	11.76%	11.76%	4.41%	95.59%	72.06%
Summer I 2011	47	20	15	7	2	1	2	42.55%	31.91%	14.89%	4.26%	2.13%	4.26%	95.74%	89.36%
Summer II 2011															
Fall 2011	74	15	9	13	9	18	10	20.27%	12.16%	17.57%	12.16%	24.32%	13.51%	86.49%	50.00%
Spring 2012	84	22	24	16	3	11	8	26.19%	28.57%	19.05%	3.57%	13.10%	9.52%	90.48%	73.81%
Summer I 2012	47	10	9	12	9	4	3	21.28%	19.15%	25.53%	19.15%	8.51%	6.38%	93.62%	65.96%
Summer II 2012															
Fall 2012	73	12	13	15	8	18	7	16.44%	17.81%	20.55%	10.96%	24.66%	9.59%	90.41%	54.79%
Spring 2013	85	20	12	21	4	16	12	23.53%	14.12%	24.71%	4.71%	18.82%	14.12%	85.88%	62.35%
Summer I 2013	38	8	8	12	1	8	1	21.05%	21.05%	31.58%	2.63%	21.05%	2.63%	97.37%	73.68%
Summer II 2013	22	5	10	4	1	1	1	22.73%	45.45%	18.18%	4.55%	4.55%	4.55%	95.45%	86.36%
Fall 2013	76	16	13	16	7	15	9	21.05%	17.11%	21.05%	9.21%	19.74%	11.84%	88.16%	59.21%
Spring 2014	103	25	17	22	6	21	12	24.27%	16.50%	21.36%	5.83%	20.39%	11.65%	88.35%	62.14%
Summer I 2014	42	9	13	11	2	3	4	21.43%	30.95%	26.19%	4.76%	7.14%	9.52%	90.48%	78.57%
Summer II 2014	23	8	10	1	1	1	2	34.78%	43.48%	4.35%	4.35%	4.35%	8.70%	91.30%	82.61%
	1011	241	226	206	80	163	95	23.84%	22.35%	20.38%	7.91%	16.12%	9.40%	90.60%	66.57%
							GPA	2.329694							

Measures 6a and 6b

Grade Distribution, Course Completion and Course Success Rates by Course

Engineering FOS

Taken from data compiled by Collin College Institutional Research Office

		Grade Assigned						Grade Distribution						Completion	Success
	Enrollment	A	B	C	D	F	W	A	B	C	D	F	W	Rate	Rate
MATH 2320															
Fall 2009	32	5	5	8	5	6	3	15.63%	15.63%	25.00%	15.63%	18.75%	9.38%	90.63%	56.25%
Spring 2010	31	3	4	10	2	8	4	9.68%	12.90%	32.26%	6.45%	25.81%	12.90%	87.10%	54.84%
Summer I 2010	29	0	7	9	1	3	9	0.00%	24.14%	31.03%	3.45%	10.34%	31.03%	68.97%	55.17%
Summer II 2010															
Fall 2010	31	10	10	3	2	5	1	32.26%	32.26%	9.68%	6.45%	16.13%	3.23%	96.77%	74.19%
Spring 2011	33	5	3	9	3	5	8	15.15%	9.09%	27.27%	9.09%	15.15%	24.24%	75.76%	51.52%
Summer I 2011	36	8	8	6	3	8	3	22.22%	22.22%	16.67%	8.33%	22.22%	8.33%	91.67%	61.11%
Summer II 2011															
Fall 2011	33	2	8	9	7	6	1	6.06%	24.24%	27.27%	21.21%	18.18%	3.03%	96.97%	57.58%
Spring 2012	55	10	13	19	6	5	2	18.18%	23.64%	34.55%	10.91%	9.09%	3.64%	96.36%	76.36%
Summer I 2012	34	5	7	10	3	6	3	14.71%	20.59%	29.41%	8.82%	17.65%	8.82%	91.18%	64.71%
Summer II 2012															
Fall 2012	58	11	8	10	5	16	8	18.97%	13.79%	17.24%	8.62%	27.59%	13.79%	86.21%	50.00%
Spring 2013	63	8	12	12	9	12	10	12.70%	19.05%	19.05%	14.29%	19.05%	15.87%	84.13%	50.79%
Summer I 2013	38	11	14	7	3	3	0	28.95%	36.84%	18.42%	7.89%	7.89%	0.00%	100.00%	84.21%
Summer II 2013															
Fall 2013	49	22	17	4	2	2	2	44.90%	34.69%	8.16%	4.08%	4.08%	4.08%	95.92%	87.76%
Spring 2014	54	9	7	10	6	13	9	16.67%	12.96%	18.52%	11.11%	24.07%	16.67%	83.33%	48.15%
Summer I 2014	34	9	8	9	0	4	4	26.47%	23.53%	26.47%	0.00%	11.76%	11.76%	88.24%	76.47%
Summer II 2014															
	610	118	131	135	57	102	67	19.34%	21.48%	22.13%	9.34%	16.72%	10.98%	89.02%	62.95%
							GPA	2.195212							
ENGR 2301															
Fall 2009	22	10	3	2	2	4	1	45.45%	13.64%	9.09%	9.09%	18.18%	4.55%	95.45%	68.18%
Spring 2010															
Summer I 2010															
Summer II 2010															
Fall 2010	25	9	6	3	1	2	4	36.00%	24.00%	12.00%	4.00%	8.00%	16.00%	84.00%	72.00%
Spring 2011	25	8	9	1	3	2	2	32.00%	36.00%	4.00%	12.00%	8.00%	8.00%	92.00%	72.00%
Summer I 2011															
Summer II 2011															
Fall 2011	23	7	9	3	1	3	0	30.43%	39.13%	13.04%	4.35%	13.04%	0.00%	100.00%	82.61%
Spring 2012	23	6	6	4	1	2	4	26.09%	26.09%	17.39%	4.35%	8.70%	17.39%	82.61%	69.57%
Summer I 2012															
Summer II 2012															
Fall 2012	23	7	7	4	3	0	2	30.43%	30.43%	17.39%	13.04%	0.00%	8.70%	91.30%	78.26%
Spring 2013	22	6	6	4	0	2	4	27.27%	27.27%	18.18%	0.00%	9.09%	18.18%	81.82%	72.73%
Summer I 2013															
Summer II 2013															
Fall 2013	24	11	8	0	4	0	1	45.83%	33.33%	0.00%	16.67%	0.00%	4.17%	95.83%	79.17%
Spring 2014	23	6	5	7	5	0	0	26.09%	21.74%	30.43%	21.74%	0.00%	0.00%	100.00%	78.26%
Summer I 2014															
Summer II 2014															
	210	70	59	28	20	15	18	33.33%	28.10%	13.33%	9.52%	7.14%	8.57%	91.43%	74.76%
							GPA	2.776042							

Measures 6a and 6b

Taken from data compiled by Collin College Institutional Research Office

Grade Distribution, Course Completion and Course Success Rates by Course

Engineering FOS

		Grade Assigned						Grade Distribution							
	Enrollment	A	B	C	D	F	W	A	B	C	D	F	W	Completion Rate	Success Rate
ENGR 2302															
Fall 2009															
Spring 2010	17	8	6	1	0	1	1	47.06%	35.29%	5.88%	0.00%	5.88%	5.88%	94.12%	88.24%
Summer I 2010															
Summer II 2010															
Fall 2010															
Spring 2011	10	6	4	0	0	0	0	60.00%	40.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Summer I 2011															
Summer II 2011															
Fall 2011															
Spring 2012	23	7	12	2	1	0	1	30.43%	52.17%	8.70%	4.35%	0.00%	4.35%	95.65%	91.30%
Summer I 2012															
Summer II 2012															
Fall 2012															
Spring 2013	22	11	5	2	3	0	1	50.00%	22.73%	9.09%	13.64%	0.00%	4.55%	95.45%	81.82%
Summer I 2013															
Summer II 2013															
Fall 2013															
Spring 2014	14	13	0	0	0	0	1	92.86%	0.00%	0.00%	0.00%	0.00%	7.14%	92.86%	92.86%
Summer I 2014															
Summer II 2014															
	86	45	27	5	4	1	4	52.33%	31.40%	5.81%	4.65%	1.16%	4.65%	95.35%	89.53%
							GPA	3.353659							

Course Completion Rate is generated by dividing the number of enrollments on the last class day (All enrollments - W) by enrollments on course census day.

Course Success Rate is generated by dividing the sum of A, B, and C grades by number of enrollments on course census dates in those courses.

In some instances grades were awarded other than A-F and W (I, IP, P, N. Z, etc.). In those instances, the grades are not reflected in the distribution and may result in a slight undercount in