

2010 Scaling Report.

VCAA provides VTAC with study scores (relative positions). These study scores are scaled in order to calculate scaled aggregates and Australian Tertiary Admissions Ranks (ATARs). Candidates are in the 2010 scaling population if they have obtained a VCAA study score in an English study [English, English (SL), English Language or Literature] plus at least three other VCAA study scores in 2009 and 2010, provided that at most one result is from 2009. The scaling population is therefore a subset of the entire population. The means and standard deviations below pertain to the scaling population in 2010.

The following table gives the 2010 scaled means and standard deviations as well as the ATAR subject scores (rounded to the nearest integer) corresponding to the VCAA study scores of 20, 25, 30, 35, 40, 45 and 50. The formal aggregation process uses ATAR subject scores to two decimal places, but the following information gives a good indication of how scaling adjusts scores in the various studies.

2010 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Accounting	30.39	7.2	19	24	30	36	41	46	50
Agricultural & Horticultural Studies	24.53	6.9	14	18	23	29	35	42	50
Art	27.21	7.5	16	21	26	32	38	44	50
Biology	30.28	7.2	19	25	30	36	41	46	50
Business Management	26.46	7.1	16	21	26	31	37	44	50
Chemistry	34.44	7.2	23	29	35	40	44	48	50
Classical Societies & Cultures	31.99	7.4	20	26	32	38	43	47	50
Dance	28.25	6.7	19	24	28	33	38	44	50
Design and Technology	24.15	6.9	13	18	22	28	34	41	50
Drama	28.35	7.4	18	23	28	34	39	45	50
Economics	31.96	7.0	21	27	32	37	42	47	50
English	28.38	7.5	17	22	28	34	39	45	50
English (ESL)	29.37	8.1	16	23	29	35	41	47	50
English Language	31.38	7.5	20	25	31	37	42	47	50
Environmental Science	28.55	7.4	17	22	28	33	39	45	50
Food and Technology	23.87	6.8	14	18	23	28	34	41	50
Geography	29.07	7.3	18	23	29	35	40	45	50
Health and Human Development	26.28	7.3	16	20	25	31	37	43	50
History:									
Australian History	27.76	7.9	15	21	27	33	39	45	50
Renaissance Italy	33.52	7.1	21	28	34	39	44	47	50
Revolutions	30.23	7.6	19	24	30	36	41	46	50
Industry & Enterprise Studies	23.10	7.5	10	14	19	26	33	41	50
Information Technology:									
Information Technology – Software Development	27.33	7.1	17	22	27	33	39	45	50
Information Technology – IT Applications	26.03	7.0	15	20	25	30	36	43	50
International Politics:									
International Studies	31.90	7.5	20	26	32	38	43	47	50
National Politics	32.67	7.5	21	27	33	38	43	47	50
Legal Studies	28.68	7.6	17	22	28	34	40	45	50
Literature	31.20	7.1	20	26	31	36	41	46	50
LOTE:									
Albanian	Small Study, see Notes 1 & 2 below								
Arabic	28.10	6.3	18	24	29	35	40	46	50
Armenian	No enrolments in 2010								
Auslan	33.14	6.2	26	30	34	38	42	46	50
Bosnian	27.21	5.9	15	20	25	31	37	44	50
Chinese (FL)	34.60	7.5	20	27	34	40	45	48	50
Chinese (SL)	39.55	6.3	31	37	41	45	48	51	52
Chinese (SL Advanced)	37.45	7.4	25	32	39	44	48	51	52
Classical Greek	43.95	5.8	34	39	43	47	50	53	55
Classical Hebrew	No enrolments in 2010								
Croatian	29.90	5.7	23	27	31	36	40	44	50
Dutch	Small Study, see Notes 1 & 2 below								
Filipino	31.36	5.9	23	28	32	36	40	45	50
French	40.62	6.5	31	36	41	46	49	52	54
German	39.13	7.0	28	34	40	45	49	51	53
Greek	33.07	6.8	23	28	33	38	43	47	50
Hebrew	41.47	6.5	33	38	43	47	50	53	54
Hindi	35.88	7.7	13	25	35	42	46	49	51
Hungarian	Small Study, see Notes 1 & 2 below								
Indigenous Languages of Victoria	Small Study, see Notes 1 & 2 below								
Indonesian (FL)	36.55	5.8	27	34	39	43	46	49	50
Indonesian (SL)	36.92	6.6	27	33	38	42	46	49	50
Italian	36.71	6.5	27	32	37	42	45	48	50
Japanese (FL)	30.42	6.9	17	24	30	36	42	47	50
Japanese (SL)	38.74	6.3	28	34	40	44	47	50	51
Khmer	28.84	6.5	15	21	27	33	39	45	50
Korean (FL)	34.12	7.5	23	30	36	41	45	48	50

2010 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Korean (SL)	38.08	6.6	27	33	39	43	47	50	51
Latin	45.00	6.8	36	42	47	50	53	54	55
Macedonian	30.49	5.9	19	24	30	35	40	45	50
Maltese	No enrolments in 2010								
Persian	29.35	6.3	20	24	28	32	37	42	50
Polish	33.67	6.9	25	30	34	39	43	47	50
Portuguese	32.71	7.4	21	27	33	39	44	48	50
Punjabi	32.87	7.4	23	29	35	41	45	48	50
Romanian	Small Study, see Notes 1 & 2 below								
Russian	33.27	6.1	25	29	33	37	40	44	50
Serbian	32.33	6.5	20	26	32	38	43	47	50
Sinhala	37.86	8.5	24	32	39	44	49	53	55
Spanish	30.83	6.5	21	26	31	36	41	46	50
Swedish	Small Study, see Notes 1 & 2 below								
Tamil	Small Study, see Notes 1 & 2 below								
Turkish	28.30	6.8	19	24	29	35	40	45	50
Ukrainian	Small Study, see Notes 1 & 2 below								
Vietnamese	34.71	6.9	23	29	35	39	44	47	50
Yiddish	No enrolments in 2010								
Mathematics:									
Further Mathematics	27.99	6.9	18	23	28	33	38	44	50
Mathematical Methods (CAS)	35.66	7.0	25	31	37	41	45	48	50
Specialist Mathematics	36.89	7.4	25	32	38	43	47	50	52
Media	26.58	7.4	15	20	26	31	37	44	50
Music:									
Music Performance: Group	27.63	6.9	17	23	28	34	39	45	50
Music Performance: Solo	30.72	6.8	21	26	31	36	40	45	50
Music Styles	31.87	6.8	21	27	32	37	41	46	50
Outdoor and Environmental Studies	24.91	6.8	15	19	24	29	35	42	50
Philosophy	30.49	7.5	18	24	30	36	42	46	50
Physical Education	27.22	7.2	17	22	27	33	38	44	50
Physics	32.58	7.2	21	27	33	38	43	47	50
Psychology	28.37	7.2	17	22	28	33	39	45	50
Religion and Society	30.12	7.0	20	25	31	36	41	46	50
Sociology	25.43	7.3	15	20	25	31	37	44	50
Studio Arts	26.06	7.1	15	20	25	31	37	43	50
Systems Engineering	24.29	6.4	14	18	23	28	33	40	50
Texts and Traditions	30.95	6.9	21	26	31	36	41	45	50
Theatre Studies	29.70	7.7	18	24	29	35	41	46	50
Visual Communication and Design	26.59	7.0	16	21	26	31	37	43	50
VCE VET:									
VCE VET Business	23.94	6.8	14	19	24	29	35	42	50
VCE VET Community Services	22.83	6.3	14	18	22	26	31	38	50
VCE VET Dance	27.09	6.6	18	23	27	32	37	43	50
VCE VET Electrotechnology	23.52	5.4	15	19	23	27	33	39	50
VCE VET Engineering Studies – Cert II	24.41	5.6	16	20	24	28	33	39	50
VCE VET Engineering Studies – Cert III	Small Study, see Notes 1 & 2 below								
VCE VET Equine Industry	26.62	6.5	17	21	26	31	36	42	50
VCE VET Financial Services	26.31	7.5	15	20	25	31	38	44	50
VCE VET Furnishing	23.03	5.8	13	17	21	26	32	40	50
VCE VET Hospitality	25.37	6.4	16	20	25	29	35	41	50
VCE VET Hospitality – Kitchen Operations	24.80	6.7	15	19	24	29	35	42	50
VCE VET Information Technology	24.77	6.1	15	19	23	28	33	40	50
VCE VET Interactive Digital Media	26.11	6.6	17	21	25	30	36	42	50
VCE VET Laboratory Skills	Small Study, see Notes 1 & 2 below								
VCE VET Music	26.05	7.1	16	20	25	30	35	42	50
VCE VET Music Technical Production	26.33	6.0	18	22	26	30	35	41	50
VCE VET Sport and Recreation	24.01	7.0	14	19	24	29	35	42	50

NOTES:

1. A number of studies were not scaled by the automatic procedure, since their eligible scaling population was less than or equal to eleven. These studies are annotated, as small study not scaled automatically. The means and standard deviation are not given in these cases, since they are not particularly informative.
2. For the small LOTEs, the LOTE adjustment is the maximum of zero and the average LOTE adjustment over 2007, 2008 and 2009. The following table gives the ENTER Subject scores for small LOTEs in 2010.

Small LOTE Study Score	1	2	3	4	5	6	7	8	9	10
2010 ATAR Subject Score	1.00	2.00	3.11	4.29	5.49	6.72	7.96	9.21	10.47	11.73
Small LOTE Study Score	11	12	13	14	15	16	17	18	19	20
2010 ATAR Subject Score	13.00	14.27	15.54	16.81	18.06	19.32	20.56	21.79	23.01	24.22
Small LOTE Study Score	21	22	23	24	25	26	27	28	29	30
2010 ATAR Subject Score	25.41	26.59	27.76	28.90	30.03	31.14	32.23	33.30	34.35	35.39
Small LOTE Study Score	31	32	33	34	35	36	37	38	39	40
2010 ATAR Subject Score	36.40	37.39	38.36	39.31	40.24	41.15	42.04	42.90	43.75	44.57
Small LOTE Study Score	41	42	43	44	45	46	47	48	49	50
2010 ATAR Subject Score	45.37	46.14	46.90	47.62	48.31	48.98	49.60	50.17	50.66	50.87

2010 Scaled Aggregate Table

Based on the 2010 scaling and aggregation process, the following table gives an indication of the minimum scaled aggregate required to achieve at least a particular ATAR. The table can be used to roughly check an ATAR calculation.

ATAR	Minimum Scaled Aggregate for ATAR
40.00	90.3
45.00	96.9
50.00	103.3
55.00	109.4
60.00	115.5
62.00	118.0
64.00	120.7
65.00	122.0
66.00	123.3
68.00	125.8
70.00	128.5
72.00	131.2
74.00	134.0
75.00	135.4
76.00	136.8
78.00	139.6
80.00	142.7
82.00	146.1
84.00	149.6
85.00	151.3
86.00	153.2
88.00	156.9
90.00	161.0
91.00	163.2
92.00	165.5
93.00	167.9
94.00	170.4
95.00	173.2
96.00	176.4
97.00	180.2
97.50	182.5
98.00	185.0
98.50	188.2
99.00	192.0
99.25	193.9
99.50	197.1
99.60	198.4
99.70	199.7
99.80	202.6
99.90	206.1