

2011 Scaling Report

VCAA provides VTAC with study scores (relative positions). These study scores are scaled in order to calculate scaled aggregates and Australian Tertiary Admission Ranks (ATARs). Candidates are in the 2011 scaling population if, excluding small studies, they have obtained at least one VCAA study score in 2011, at least four in total, at least one in an English study [English, English (SL), English Language or Literature], but do not already have an ATAR. The scaling population is therefore a subset of the entire population. The means and standard deviations below pertain to the scaling population in 2011.

The following table gives the 2011 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 an indication of how scaling adjusts scores in the various studies.

2011 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Accounting	30.4	7.3	18	24	30	36	41	46	50
Agricultural & Horticultural Studies	25.2	6.9	14	18	23	28	35	42	50
Art	27.4	7.5	16	21	27	32	38	45	50
Biology	30.4	7.3	19	25	30	36	41	46	50
Business Management	26.7	7.2	16	21	26	31	37	43	50
Chemistry	34.1	7.2	22	29	34	40	44	48	50
Classical Societies & Cultures	31.6	7.6	20	26	31	37	42	47	50
Dance	28.3	7.1	18	23	28	33	39	44	50
Design & Technology	24.6	7.0	14	18	23	28	35	42	50
Drama	28.2	7.3	17	22	27	33	39	45	50
Economics	32.1	6.9	22	27	32	37	42	46	50
English	28.3	7.5	17	22	28	34	39	45	50
English (ESL)	28.7	8.1	16	22	28	34	41	46	50
English Language	31.2	7.5	20	25	31	37	42	46	50
Environmental Science	28.4	7.1	17	23	28	34	39	45	50
Food & Technology	23.9	6.9	13	18	22	28	34	41	50
Geography	29.3	7.3	19	24	29	34	40	45	50
Health & Human Development	26.3	7.2	16	20	25	31	37	43	50
History:									
Australian History	27.8	7.8	16	21	27	33	39	45	50
Renaissance Italy	32.2	7.8	19	26	32	38	43	47	50
Revolutions	30.0	7.6	18	24	30	36	41	46	50
Industry & Enterprise Studies	23.1	7.5	10	15	19	25	32	41	50
Information Technology:									
Information Technology – Software Development	28.1	7.0	17	22	27	33	38	44	50
Information Technology – IT Applications	25.7	7.1	15	20	25	30	36	43	50
International Politics:									
International Studies	32.6	7.6	20	27	33	38	43	47	50
National Politics	32.8	7.2	21	27	33	38	43	47	50
Legal Studies	28.4	7.6	17	22	28	34	40	45	50
Literature	31.1	7.2	20	26	31	36	41	46	50
LOTE:									
Albanian	Small Study, see Notes 1 & 2 below								
Arabic	30.5	6.9	20	25	31	36	41	46	50
Armenian	Small Study, see Notes 1 & 2 below								
Auslan	31.1	5.8	20	26	32	37	42	47	50
Bosnian	31.3	4.9	23	27	31	34	38	43	50
Chinese (FL)	34.2	7.5	20	27	33	39	44	48	50
Chinese (SL)	40.6	6.8	30	36	41	46	49	52	54
Chinese (SL Advanced)	38.9	6.7	28	34	39	44	47	50	52
Classical Greek	42.5	7.4	33	40	45	49	52	54	55
Classical Hebrew	Small Study, see Notes 1 & 2 below								
Croatian	34.6	5.9	25	29	34	38	42	46	50
Dutch	Small Study, see Notes 1 & 2 below								
Filipino	31.2	5.9	20	25	30	35	40	45	50
French	40.6	6.6	30	36	41	46	49	52	54
German	39.0	6.8	29	35	40	44	48	51	53
Greek	34.2	6.9	24	30	35	40	44	48	50
Hebrew	41.2	7.3	30	37	43	47	51	54	55
Hindi	34.2	7.1	23	29	34	39	44	47	50
Hungarian	Small Study, see Notes 1 & 2 below								
Indigenous Languages of Victoria	No enrolments in 2011								
Indonesian (FL)	35.5	5.5	24	29	33	37	40	45	50
Indonesian (SL)	36.9	6.5	26	32	37	42	45	48	50
Italian	36.7	6.6	26	32	37	42	46	48	50
Japanese (FL)	31.0	8.5	16	22	29	36	42	47	50
Japanese (SL)	38.5	6.4	28	34	39	43	47	50	51
Khmer	32.1	7.6	22	28	34	39	44	48	50
Korean (FL)	36.3	7.7	19	26	34	41	46	50	52
Korean (SL)	38.1	6.4	24	31	38	43	47	50	51
Latin	45.0	7.0	33	41	46	50	53	54	55
Macedonian	30.2	6.4	20	25	30	35	40	45	50
Maltese	Small Study, see Notes 1 & 2 below								
Persian	29.1	6.1	21	25	29	34	38	43	50
Polish	34.1	7.6	21	28	35	41	45	48	50

2011 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Portuguese	32.9	5.5	21	26	31	36	41	45	50
Punjabi	31.1	7.2	20	26	31	36	41	46	50
Romanian	Small Study, see Notes 1 & 2 below								
Russian	36.0	5.4	28	33	37	41	44	47	50
Serbian	32.1	6.3	20	26	31	37	42	46	50
Sinhala	36.3	7.5	21	29	36	42	47	50	51
Spanish	33.1	6.7	22	28	33	37	42	46	50
Swedish	Small Study, see Notes 1 & 2 below								
Tamil	Small Study, see Notes 1 & 2 below								
Turkish	30.0	6.7	19	24	29	34	39	45	50
Ukrainian	Small Study, see Notes 1 & 2 below								
Vietnamese	34.3	7.0	22	28	34	39	44	48	50
Yiddish	Small Study, see Notes 1 & 2 below								
Mathematics:									
Further Mathematics	28.0	7.0	18	23	28	33	38	44	50
Mathematical Methods (CAS)	34.9	7.1	24	30	35	40	44	48	50
Specialist Mathematics	41.2	7.4	29	36	42	47	51	53	55
Media	26.3	7.3	15	20	25	31	37	43	50
Music:									
Music Performance	29.6	7.2	19	24	29	34	40	45	50
Music Investigation	30.0	7.3	18	23	29	34	40	45	50
Music Styles	31.6	7.1	21	27	32	38	43	47	50
Outdoor & Environmental Studies	24.8	6.7	15	19	24	29	35	41	50
Philosophy	30.5	7.7	18	24	30	36	41	46	50
Physical Education	27.5	7.1	17	22	27	32	38	44	50
Physics	32.3	7.3	21	27	32	38	43	47	50
Psychology	28.5	7.2	17	22	28	33	39	45	50
Religion & Society	30.8	7.0	20	25	31	36	41	46	50
Sociology	26.1	7.4	15	20	25	31	38	44	50
Studio Arts	26.1	7.2	15	20	25	31	37	43	50
Systems Engineering	24.4	6.6	15	19	23	28	34	41	50
Texts & Traditions	30.6	7.1	21	26	31	36	41	45	50
Theatre Studies	29.3	7.3	18	24	29	35	40	45	50
Visual Communication & Design	26.7	7.1	16	21	26	31	37	43	50
VCE VET:									
VCE VET Business	25.0	6.7	15	19	23	29	34	41	50
VCE VET Community Services	23.5	6.4	14	17	22	27	32	40	50
VCE VET Dance	27.0	6.0	19	23	26	30	37	43	50
VCE VET Electrotechnology	25.6	5.8	17	20	24	28	35	42	50
VCE VET Engineering Studies – Cert II	24.5	6.4	15	18	22	26	34	42	50
VCE VET Engineering Studies – Cert III	No enrolments in 2011								
VCE VET Equine Industry	27.0	6.5	17	22	26	32	37	43	50
VCE VET Financial Services	Small Study, see Note 1 below								
VCE VET Furnishing	24.2	6.0	14	18	22	27	33	40	50
VCE VET Hospitality	25.5	6.7	15	20	25	30	36	43	50
VCE VET Hospitality – Kitchen Operations	25.0	6.9	15	19	24	29	35	41	50
VCE VET Information Technology	24.9	6.3	15	19	23	28	33	40	50
VCE VET Interactive Digital Media	26.4	6.8	16	21	25	30	36	42	50
VCE VET Laboratory Skills	Small Study, see Note 1 below								
VCE VET Music	26.1	6.1	17	21	26	30	36	42	50
VCE VET Music Technical Production	26.2	6.8	16	20	25	30	35	42	50
VCE VET Sport & Recreation	24.5	6.9	15	19	23	29	34	41	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 noted. The means and standard deviations are not given in these cases, since they are not as useful.
2. For the small LOTEs, the LOTE adjustment is the maximum of zero and the average LOTE adjustment over the previous three years. The following table gives the ATAR Subject Scores for small LOTEs in 2011.

Small LOTE - 2011 ATAR Subject Scores

Small LOTE Study Score	1	2	3	4	5	6	7	8	9	10
2011 ATAR Subject Score	1	2	3.09	4.26	5.46	6.69	7.93	9.18	10.44	11.71
Small LOTE Study Score	11	12	13	14	15	16	17	18	19	20
2011 ATAR Subject Score	12.99	14.26	15.53	16.8	18.06	19.32	20.56	21.8	23.03	24.24
Small LOTE Study Score	21	22	23	24	25	26	27	28	29	30
2011 ATAR Subject Score	25.44	26.62	27.79	28.94	30.07	31.18	32.27	33.34	34.39	35.42
Small LOTE Study Score	31	32	33	34	35	36	37	38	39	40
2011 ATAR Subject Score	36.42	37.41	38.37	39.31	40.23	41.12	42	42.85	43.69	44.5
Small LOTE Study Score	41	42	43	44	45	46	47	48	49	50
2011 ATAR Subject Score	45.29	46.05	46.8	47.52	48.2	48.86	49.49	50.07	50.58	50.89

2011 Scaled Aggregate Table

Based on the 2011 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 check roughly an ATAR calculation.

ATAR	Min Scaled Aggregate for ATAR
40.00	88.7
45.00	95.0
50.00	101.4
55.00	107.2
60.00	113.5
62.00	116.0
64.00	118.7
65.00	120.1
66.00	121.3
68.00	123.9
70.00	126.6
72.00	129.2
74.00	131.9
75.00	133.4
76.00	134.9
78.00	137.9
80.00	141.1
82.00	144.3
84.00	147.7
85.00	149.5
86.00	151.4
88.00	155.1
90.00	159.2
91.00	161.5
92.00	164.0
93.00	166.5
94.00	169.3
95.00	172.3
96.00	176.1
97.00	180.4
97.50	182.9
98.00	185.4
98.50	188.7
99.00	193.0
99.25	195.6
99.50	198.6
99.60	200.0
99.70	201.9
99.80	204.5
99.90	207.7