

2012 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 2012 scaling population if, excluding small studies, they have obtained at least one VCAA study score in 2012, 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 2012.

The following table gives the 2012 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.

2012 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Accounting	30.5	7.2	19	24	30	35	41	46	50
Agricultural & Horticultural Studies	24.5	6.6	15	19	23	28	34	41	50
Art	27.3	7.7	15	20	26	32	39	45	50
Biology	30.4	7.2	19	25	30	36	41	46	50
Business Management	26.6	7.1	16	21	26	31	37	43	50
Chemistry	34.1	7.2	22	29	34	40	44	48	50
Classical Societies & Cultures	30.8	7.8	19	25	31	36	42	47	50
Dance	28.9	6.6	19	23	28	33	38	43	50
Design & Technology	24.4	7.0	13	18	23	28	34	42	50
Drama	28.4	7.4	17	23	28	33	39	45	50
Economics	32.0	7.2	21	27	32	37	42	47	50
English	28.2	7.5	17	22	28	33	39	45	50
English (ESL)	29.0	8.0	17	22	29	35	41	46	50
English Language	31.5	7.4	20	26	31	37	42	47	50
Environmental Science	28.9	7.4	17	22	28	33	39	45	50
Food & Technology	24.0	7.0	14	18	23	28	34	41	50
Geography	29.0	7.2	18	23	29	34	40	45	50
Health & Human Development	26.3	7.2	16	20	25	31	37	43	50
History:									
Australian History	27.7	8.0	15	21	27	33	40	45	50
Renaissance Italy	32.6	7.6	20	27	33	38	43	47	50
Revolutions	29.9	7.6	18	24	30	35	41	46	50
Industry & Enterprise Studies	24.0	7.6	10	14	20	26	34	43	50
Information Technology:									
Software Development	28.0	6.9	18	22	27	32	38	44	50
IT Applications	25.7	7.0	15	20	25	30	36	43	50
Politics:									
Australian Politics	32.9	7.3	21	27	33	38	43	47	50
Global Politics	32.6	7.3	21	27	33	38	43	47	50
Legal Studies	28.5	7.5	17	22	28	34	40	45	50
Literature	31.1	7.2	20	26	31	36	41	46	50
VCE Languages:									
Albanian	Small Study, see Notes 1 & 2 below								
Arabic	29.2	6.7	19	24	28	33	38	44	50
Armenian	Small Study, see Notes 1 & 2 below								
Auslan	32.4	6.3	23	29	34	38	43	47	50
Bosnian	31.0	7.9	20	25	30	35	40	45	50
Chinese (FL)	34.9	7.5	20	27	34	40	45	48	50
Chinese (SL)	40.4	6.7	30	36	42	46	49	52	54
Chinese (SL Advanced)	38.2	7.5	25	32	38	44	48	52	53
Classical Greek	45.0	5.9	34	41	45	49	52	54	55
Classical Hebrew	No candidates for scaling in 2012								
Croatian	33.9	5.2	26	30	34	38	42	45	50
Dutch	Small Study, see Notes 1 & 2 below								
Filipino	32.0	5.7	23	28	32	36	40	45	50
French	40.7	6.3	31	37	41	46	49	51	53
German	38.9	6.5	28	34	39	44	47	50	52
Greek	34.8	7.3	23	30	35	40	45	48	50
Hebrew	43.4	7.1	30	38	45	49	52	54	55
Hindi	34.1	8.5	20	27	34	40	45	49	51
Hungarian	Small Study, see Notes 1 & 2 below								
Indigenous Languages of Victoria	No candidates for scaling in 2012								
Indonesian (FL)	32.8	7.1	21	27	33	38	43	47	50
Indonesian (SL)	36.5	6.8	25	32	37	42	46	49	50
Italian	37.0	6.7	27	33	38	42	46	48	50
Japanese (FL)	28.7	7.0	16	21	26	31	37	43	50

2012 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Japanese (SL)	38.4	6.7	28	34	39	44	47	50	52
Khmer	32.4	6.2	21	26	31	36	41	46	50
Korean (FL)	35.6	6.7	20	27	33	39	44	48	50
Korean (SL)	39.2	6.8	28	34	39	44	47	51	53
Latin	45.0	6.4	35	42	46	50	52	54	55
Macedonian	31.1	6.4	21	25	30	35	40	45	50
Maltese	No candidates for scaling in 2012								
Persian	30.8	7.4	19	25	30	35	41	46	50
Polish	37.4	7.2	24	30	36	41	46	49	52
Portuguese	35.6	8.3	22	29	35	41	46	50	52
Punjabi	32.1	7.4	20	26	33	39	44	48	50
Romanian	Small Study, see Notes 1 & 2 below								
Russian	36.7	6.7	27	31	36	40	43	47	50
Serbian	28.8	4.9	23	26	30	33	37	42	50
Sinhala	36.6	7.5	23	31	37	42	47	50	52
Spanish	34.5	7.2	23	29	35	40	44	48	50
Swedish	Small Study, see Notes 1 & 2 below								
Tamil	Small Study, see Notes 1 & 2 below								
Turkish	29.9	6.3	20	25	29	34	39	44	50
Ukrainian	Small Study, see Notes 1 & 2 below								
Vietnamese	34.4	7.1	23	29	34	39	44	47	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)	35.1	7.1	24	30	36	41	45	48	50
Specialist Mathematics	41.3	7.4	30	37	42	47	51	53	55
Media	26.4	7.3	15	20	25	31	37	44	50
Music:									
Music Performance	30.0	7.2	19	25	30	35	41	46	50
Music Investigation	30.9	6.9	21	26	30	35	40	45	50
Music Styles	31.4	7.8	17	24	30	37	43	47	50
Outdoor & Environmental Studies	24.8	6.7	15	19	24	29	35	42	50
Philosophy	29.8	7.6	17	23	29	35	41	46	50
Physical Education	27.4	7.2	17	22	27	32	38	44	50
Physics	32.3	7.2	21	26	32	38	43	47	50
Psychology	28.5	7.2	17	22	28	33	39	45	50
Religion & Society	30.2	7.0	19	25	30	35	40	45	50
Sociology	26.6	7.7	14	19	25	31	37	44	50
Studio Arts	26.1	7.3	15	20	25	31	37	43	50
Systems Engineering	24.8	6.4	15	19	24	29	35	41	50
Texts & Traditions	30.7	7.2	19	24	30	35	41	46	50
Theatre Studies	29.4	7.3	18	23	29	34	40	45	50
Visual Communication & Design	26.6	7.2	16	21	26	31	37	44	50
VCE VET:									
VCE VET Business	24.4	6.8	15	19	23	28	34	40	50
VCE VET Community Services	23.9	6.5	13	17	22	27	33	40	50
VCE VET Dance	25.6	6.9	16	21	25	30	36	42	50
VCE VET Integrated Technologies	25.2	6.5	14	18	23	28	33	40	50
VCE VET Engineering Studies – Cert II	24.4	5.8	17	20	23	27	31	41	50
VCE VET Equine Industry	27.6	6.7	17	21	26	31	37	43	50
VCE VET Financial Services	Small Study, see Note 1 below								
VCE VET Furniture Making	23.1	6.1	14	18	22	26	32	38	50
VCE VET Hospitality	26.4	6.7	16	20	25	30	35	42	50
VCE VET Hospitality – Kitchen Operations	25.1	6.6	15	19	24	29	35	41	50
VCE VET Information Technology	23.5	6.0	15	18	23	27	33	40	50
VCE VET Interactive Digital Media	25.8	6.8	16	20	25	30	36	42	50
VCE VET Laboratory Skills	Small Study, see Note 1 below								
VCE VET Music	25.6	6.6	16	20	25	30	35	42	50
VCE VET Technical Production	26.8	6.7	17	21	26	31	37	43	50
VCE VET Sport & Recreation	24.4	6.8	14	18	23	28	34	41	50

NOTES:

1. Small Studies were not scaled by the automatic procedure, since their eligible scaling population was less than or equal to ten. The means and standard deviations are not given in these cases, since they are not as useful.
2. For small VCE Languages, the Language adjustment is the maximum of zero and the average Language adjustment over the previous three years. The following table gives the ATAR Subject Scores for small VCE Languages in 2012.

Small VCE Languages - 2012 ATAR Subject Scores

Small VCE Language Study Score	1	2	3	4	5	6	7	8	9	10
2012 ATAR Subject Score	1.0	2.0	3.1	4.3	5.5	6.7	7.9	9.2	10.4	11.7
Small VCE Language Study Score	11	12	13	14	15	16	17	18	19	20
2012 ATAR Subject Score	13.0	14.3	15.5	16.8	18.1	19.3	20.6	21.8	23.0	24.2
Small VCE Language Study Score	21	22	23	24	25	26	27	28	29	30
2012 ATAR Subject Score	25.4	26.6	27.8	28.9	30.1	31.2	32.3	33.3	34.4	35.4
Small VCE Language Study Score	31	32	33	34	35	36	37	38	39	40
2012 ATAR Subject Score	36.4	37.4	38.4	39.3	40.2	41.1	42.0	42.9	43.7	44.5
Small VCE Language Study Score	41	42	43	44	45	46	47	48	49	50
2012 ATAR Subject Score	45.3	46.0	46.8	47.5	48.2	48.8	49.5	50.0	50.6	50.9

2012 Scaled Aggregate Table

Based on the 2012 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	88.8
45.00	94.6
50.00	101.8
55.00	108.2
60.00	114.1
62.00	116.6
64.00	119.1
65.00	120.5
66.00	121.7
68.00	124.2
70.00	126.7
72.00	129.3
74.00	132.2
75.00	133.5
76.00	134.9
78.00	137.7
80.00	140.7
82.00	143.8
84.00	147.2
85.00	149.1
86.00	151.0
88.00	154.8
90.00	158.9
91.00	161.0
92.00	163.6
93.00	166.0
94.00	168.6
95.00	171.9
96.00	175.5
97.00	179.6
97.50	182.0
98.00	184.8
98.50	187.9
99.00	192.0
99.25	194.5
99.50	197.5
99.60	198.8
99.70	200.6
99.80	203.6
99.90	207.2