

2009 Scaling Report.

VCAA provides VTAC with study scores (relative positions). These study scores are scaled in order to calculate scaled aggregates and Equivalent National Tertiary Entrance Ranks (ENTERs). Candidates are in the 2009 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 2008 and 2009, provided that at most one result is from 2008. The scaling population is therefore a subset of the entire population. The means and standard deviations below pertain to the scaling population in 2009.

The following table gives the 2009 scaled means and standard deviations as well as the ENTER 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 ENTER subject scores to two decimal places, but the following information gives a good indication of how scaling adjusts scores in the various studies.

2009 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Accounting	30.19	7.2	18	24	30	35	41	46	50
Agricultural & Horticultural Studies	25.43	6.5	15	19	24	29	35	42	50
Art	27.38	7.3	16	21	27	32	38	44	50
Biology	30.30	7.1	19	25	30	36	41	46	50
Business Management	26.52	7.1	16	21	26	31	37	44	50
Chemistry	34.41	7.2	22	29	35	40	44	48	50
Classical Societies & Cultures	31.65	7.4	20	26	32	37	42	47	50
Dance	28.22	6.6	19	23	28	33	38	44	50
Design and Technology	24.22	6.8	13	18	23	28	34	41	50
Drama	28.45	7.5	17	23	28	34	39	45	50
Economics	31.85	6.9	21	27	32	37	42	46	50
English	28.42	7.4	17	22	28	34	39	45	50
English (ESL)	29.14	8.3	16	22	29	35	41	47	50
English Language	31.31	7.5	20	26	31	37	42	47	50
Environmental Science	28.88	6.8	17	23	28	34	40	45	50
Food and Technology	23.76	6.8	14	18	22	28	34	41	50
Geography	29.26	7.2	18	24	29	34	40	45	50
Health and Human Development	26.39	7.2	16	20	26	31	37	44	50
History:									
Australian History	27.91	7.8	16	22	27	33	39	45	50
Renaissance Italy	33.63	7.0	22	28	33	39	43	47	50
Revolutions	30.25	7.6	19	24	30	36	42	46	50
Industry & Enterprise Studies	23.15	7.2	11	15	20	26	33	41	50
Information Technology:									
Information Technology – Software Development	27.10	6.7	17	22	27	32	38	44	50
Information Technology – IT Applications	25.79	7.0	15	20	25	30	36	43	50
International Politics:									
International Studies	31.92	7.4	20	26	32	38	43	47	50
National Politics	33.15	7.0	22	28	33	38	43	47	50
Legal Studies	28.64	7.5	17	23	28	34	40	45	50
Literature	31.12	7.1	20	26	31	36	41	46	50
LOTE:									
Albanian	Small Study, see Notes 1 & 2 below								
Arabic	28.13	6.8	18	23	27	32	37	43	50
Armenian	No enrolments in 2009								
Auslan	34.12	6.0	23	28	32	37	41	46	50
Bosnian	28.01	5.5	20	24	29	34	39	44	50
Chinese (FL)	34.22	7.6	20	27	34	40	45	48	50
Chinese (SL)	39.52	6.4	31	37	42	46	49	51	52
Chinese (SL Advanced)	38.57	7.3	27	34	40	45	49	52	53
Classical Greek	42.29	6.3	31	38	43	48	51	54	55
Classical Hebrew	Small Study, see Notes 1 & 2 below								
Croatian	31.05	6.4	19	24	30	36	41	46	50
Dutch	Small Study, see Notes 1 & 2 below								
Filipino	29.04	6.5	20	25	30	35	40	45	50
French	40.68	6.6	30	36	42	46	49	52	54
German	38.97	6.7	28	34	40	44	48	51	52
Greek	32.74	6.9	22	28	33	38	42	47	50
Hebrew	42.49	6.7	32	39	45	49	52	54	55
Hindi	34.34	7.6	20	30	38	44	48	49	50
Hungarian	Small Study, see Notes 1 & 2 below								
Indigenous Languages of Victoria	Small Study, see Notes 1 & 2 below								
Indonesian (FL)	37.58	7.2	22	29	36	41	46	50	52
Indonesian (SL)	37.69	6.7	27	33	38	43	47	49	51
Italian	36.68	6.8	26	32	38	42	46	49	50
Japanese (FL)	27.46	8.3	15	21	27	34	41	46	50
Japanese (SL)	38.53	6.7	28	34	39	44	47	50	52
Khmer	Small Study, see Notes 1 & 2 below								
Korean (FL)	36.48	7.5	22	29	35	41	46	50	51
Korean (SL)	36.38	6.2	24	32	39	44	47	49	50
Latin	45.00	6.1	35	41	46	50	52	54	55
Macedonian	30.35	7.1	20	25	30	35	40	45	50
Maltese	No enrolments in 2009								
Persian	30.22	6.3	20	25	30	35	40	44	50

2009 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Polish	35.19	8.0	19	28	36	43	48	50	51
Portuguese				Small Study, see Notes 1 & 2 below					
Punjabi	35.09	7.1	23	29	35	40	44	48	50
Romanian	31.14	6.0	23	26	30	34	38	42	50
Russian	35.00	7.5	25	31	36	40	44	48	50
Serbian	31.17	6.6	20	25	30	36	41	46	50
Sinhala	37.89	8.6	23	30	37	43	48	52	55
Spanish	32.06	6.9	22	27	32	37	42	46	50
Swedish				Small Study, see Notes 1 & 2 below					
Tamil				Small Study, see Notes 1 & 2 below					
Turkish	28.41	6.1	19	24	29	34	39	45	50
Ukrainian				Small Study, see Notes 1 & 2 below					
Vietnamese	34.42	6.6	24	29	34	39	43	47	50
Yiddish				Small Study, see Notes 1 & 2 below					
Mathematics:									
Further Mathematics	27.81	6.9	18	23	28	33	38	44	50
Mathematical Methods	35.52	7.0	25	31	36	41	45	48	50
Mathematical Methods (CAS)	35.16	7.0	25	31	36	41	45	48	50
Specialist Mathematics	37.35	7.4	26	32	38	43	47	50	52
Media	26.31	7.1	15	20	25	31	37	43	50
Music:									
Music Performance: Group	27.68	7.0	17	22	28	33	39	45	50
Music Performance: Solo	31.52	6.4	22	27	32	36	41	46	50
Music Styles	32.13	6.6	22	27	33	37	42	46	50
Outdoor and Environmental Studies	24.61	6.8	14	19	24	29	35	42	50
Philosophy	29.99	7.6	18	24	30	35	41	46	50
Physical Education	27.22	7.2	17	21	27	32	38	44	50
Physics	32.64	7.2	21	27	33	38	43	47	50
Psychology	28.44	7.1	17	22	28	34	39	45	50
Religion and Society	30.43	6.8	21	26	30	35	40	45	50
Sociology	24.52	7.5	14	19	25	32	38	45	50
Studio Arts	26.04	7.2	15	20	25	31	37	43	50
Systems Engineering	24.23	6.2	15	18	23	27	33	40	50
Texts and Traditions	31.18	6.7	21	26	32	37	42	46	50
Theatre Studies	29.69	7.1	19	24	29	35	40	45	50
Visual Communication and Design	26.42	7.0	16	21	26	31	37	43	50
VCE VET:									
VCE VET Business (Office Admin.)	23.82	6.4	15	20	24	30	36	42	50
VCE VET Community Services (Community Work)	23.49	5.9	16	19	23	27	32	39	50
VCE VET Dance	26.13	6.1	18	22	27	31	36	42	50
VCE VET Electrotechnology	23.58	5.9	14	18	23	28	33	40	50
VCE VET Engineering Studies – Cert II	24.21	5.5	16	19	23	27	32	38	50
VCE VET Engineering Studies – Cert III				Small Study, see Note 1 below					
VCE VET Equine Industry	26.66	5.7	17	21	25	30	36	42	50
VCE VET Financial Services	28.36	6.6	19	23	27	30	34	40	50
VCE VET Furnishing	22.85	5.7	14	18	21	26	31	38	50
VCE VET Hospitality – Commercial Cookery	24.63	6.5	15	20	24	29	35	41	50
VCE VET Hospitality – Food and Beverage	25.43	6.3	16	20	24	29	34	41	50
VCE VET Information Technology	23.62	6.4	15	19	23	28	34	41	50
VCE VET Laboratory Skills				Small Study, see Note 1 below					
VCE VET Multimedia	26.14	6.6	16	21	26	31	37	43	50
VCE VET Music	26.57	6.5	19	22	25	29	35	43	50
VCE VET Music Technical Production	26.25	6.3	17	22	26	31	36	42	50
VCE VET Sport and Recreation	23.89	6.6	14	18	23	28	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 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 2006, 2007 and 2008. The following table gives the ENTER Subject scores for small LOTEs in 2009.

Small LOTE Study Score	1	2	3	4	5	6	7	8	9	10
2009 ENTER Subject Score	1.00	2.00	3.13	4.30	5.51	6.74	7.98	9.23	10.50	11.76
Small LOTE Study Score	11	12	13	14	15	16	17	18	19	20
2009 ENTER Subject Score	13.03	14.30	15.57	16.83	18.09	19.33	20.57	21.80	23.02	24.22
Small LOTE Study Score	21	22	23	24	25	26	27	28	29	30
2009 ENTER Subject Score	25.41	26.59	27.75	28.89	30.02	31.12	32.21	33.28	34.34	35.37
Small LOTE Study Score	31	32	33	34	35	36	37	38	39	40
2009 ENTER Subject Score	36.38	37.37	38.34	39.29	40.21	41.12	42.01	42.87	43.71	44.53
Small LOTE Study Score	41	42	43	44	45	46	47	48	49	50
2009 ENTER Subject Score	45.33	46.10	46.84	47.56	48.24	48.90	49.51	50.07	50.55	50.77

2009 Scaled Aggregate Table

Based on the 2009 scaling and aggregation process, the following table gives an indication of the minimum scaled aggregate required to achieve at least a particular ENTER. The table can be used to roughly check an ENTER calculation.

ENTER	Minimum Scaled Aggregate for ENTER
40.00	90.5
45.00	96.3
50.00	102.2
55.00	108.2
60.00	113.9
62.00	116.4
64.00	118.9
65.00	120.0
66.00	121.3
68.00	124.0
70.00	126.5
72.00	128.9
74.00	131.4
75.00	132.7
76.00	134.1
78.00	137.1
80.00	140.3
82.00	143.7
84.00	147.0
85.00	148.8
86.00	150.4
88.00	154.0
90.00	158.0
91.00	160.2
92.00	162.6
93.00	165.2
94.00	168.0
95.00	170.9
96.00	174.2
97.00	178.5
97.50	181.1
98.00	184.0
98.50	187.1
99.00	191.1
99.25	193.5
99.50	196.7
99.60	198.2
99.70	199.8
99.80	201.9
99.90	205.6