

## 2014 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 2014 scaling population if, excluding small studies, they have obtained at least one VCAA study score in 2014, 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 2014.

The following table gives the 2014 scaled means and standard deviations as well as the VTAC scaled study scores (rounded to the nearest integer) corresponding to the study scores of 20, 25, 30, 35, 40, 45 and 50. The formal aggregation process uses VTAC scaled study scores to two decimal places, but the following information gives an indication of how scaling adjusts scores in the various studies.

Code	2014 Study	Mean	St. Dev.	20	25	30	35	40	45	50
AC	Accounting	31.1	7.3	20	25	31	36	41	46	50
AH	Agricultural & Horticultural Studies	25.2	6.2	14	18	23	28	34	41	50
AT	Art	26.9	7.8	15	21	26	32	38	45	50
BI	Biology	30.6	7.3	19	25	31	36	41	46	50
BM	Business Management	26.8	7.2	16	21	26	32	37	44	50
CH	Chemistry	34.0	7.3	23	29	34	40	44	48	50
CC	Classical Studies	30.0	7.8	17	23	30	36	41	46	50
DA	Dance	28.8	7.0	18	23	29	34	39	45	50
DT	Product Design and Technology	24.2	7.0	13	18	22	28	34	41	50
DR	Drama	27.7	7.5	17	22	27	33	39	45	50
EC	Economics	31.9	7.2	21	27	32	37	42	46	50
EN	English	28.2	7.5	17	22	28	33	39	45	50
EF	English (EAL)	29.4	8.2	17	23	29	35	41	46	50
EG	English Language	32.6	7.3	21	27	33	38	43	47	50
EV	Environmental Science	28.7	7.3	18	23	28	34	40	45	50
XI03	Extended Investigation	32.9	8.5	17	24	31	37	43	47	50
FT	Food and Technology	24.1	6.8	14	18	23	28	34	41	50
GE	Geography	29.4	7.2	19	24	29	35	40	45	50
HH	Health and Human Development	26.4	7.3	16	21	26	31	37	43	50
	<b>History:</b>									
HA	Australian History	28.0	8.0	16	21	28	34	40	46	50
H9	Renaissance Italy	30.8	8.2	19	25	31	36	42	47	50
HR	Revolutions	29.3	7.6	18	23	29	35	41	46	50
IE	Industry & Enterprise Studies	22.9	7.2	10	14	20	27	35	43	50
	<b>Information Technology:</b>									
IT03	Software Development	27.7	7.0	17	22	27	32	38	44	50
IT02	IT Applications	25.7	7.1	15	20	25	30	36	43	50
	<b>Politics:</b>									
PS03	Australian Politics	32.2	7.4	21	27	32	38	42	47	50
PS05	Global Politics	32.3	7.7	20	27	33	38	43	47	50
LS	Legal Studies	28.4	7.6	17	22	28	34	40	45	50
LI	Literature	31.0	7.3	20	25	31	36	41	46	50
	<b>Languages:</b>									
AL	Albanian	No candidates for scaling in 2014								
AR	Arabic	31.1	6.5	21	26	30	35	39	44	50
AM	Armenian	Small Study, see Notes 1 & 2 below								
AU	Auslan	32.7	5.6	24	29	33	38	42	46	50
LO50	Bosnian	32.7	7.2	22	27	31	36	41	45	50
CN	Chinese (FL)	35.5	7.5	20	28	35	41	46	49	51
CL	Chinese (SL)	40.4	7.0	30	36	42	46	50	52	54
CK	Chinese (SL Advanced)	38.5	7.4	26	33	39	44	48	51	53
AG	Classical Greek	41.1	5.4	32	37	42	46	48	51	52
LO51	Classical Hebrew	No candidates for scaling in 2014								
CR	Croatian	34.1	5.8	25	30	34	39	42	46	50
DU	Dutch	Small Study, see Notes 1 & 2 below								
FP	Filipino	30.4	6.0	21	26	30	35	40	44	50
FR	French	40.3	6.6	30	36	41	45	49	52	54
GN	German	38.9	6.8	28	35	40	45	48	51	52
MG	Greek	34.2	6.4	24	30	35	39	43	47	50
HB	Hebrew	43.5	6.5	30	37	43	48	51	54	55
HI	Hindi	33.5	8.1	20	26	33	39	44	48	50
HU	Hungarian	Small Study, see Notes 1 & 2 below								
AI	Indigenous Languages of Victoria	Small Study, see Notes 1 & 2 below								
IN	Indonesian (FL)	31.0	5.7	21	26	31	36	40	45	50
IX	Indonesian (SL)	36.2	6.9	26	32	37	42	45	48	50
IL	Italian	37.2	6.5	27	33	38	42	46	48	50
JA	Japanese (FL)	29.0	7.3	17	22	29	35	41	46	50

Code	2014 Study	Mean	St. Dev.	20	25	30	35	40	45	50
JS	Japanese (SL)	38.4	6.6	28	34	39	43	47	50	52
KH	Khmer	29.5	7.4	13	20	27	34	41	47	50
KO	Korean (FL)	35.0	6.8	21	28	35	41	45	48	50
KS	Korean (SL)	38.2	7.0	26	33	39	44	48	50	52
LA	Latin	45.0	6.4	34	41	46	50	53	54	55
MA	Macedonian	29.4	7.4	18	24	29	35	40	46	50
ML	Maltese	Small Study, see Notes 1 & 2 below								
PN	Persian	29.6	7.1	18	24	29	34	40	45	50
PO	Polish	35.1	6.7	23	30	36	41	46	48	50
PG	Portuguese	Small Study, see Notes 1 & 2 below								
LO49	Punjabi	31.8	7.4	19	25	32	38	43	47	50
RO	Romanian	Small Study, see Notes 1 & 2 below								
RU	Russian	37.4	6.4	27	32	36	40	44	47	50
SE	Serbian	33.5	6.4	20	25	30	36	41	45	50
SI	Sinhala	35.9	7.7	22	29	36	42	47	50	51
SP	Spanish	33.7	7.5	21	28	34	40	44	48	50
SW	Swedish	Small Study, see Notes 1 & 2 below								
TA	Tamil	No candidates for scaling in 2014								
TU	Turkish	29.3	6.4	19	24	29	34	39	44	50
UK	Ukrainian	Small Study, see Notes 1 & 2 below								
VT	Vietnamese	35.0	6.6	24	30	35	40	44	47	50
LO52	Yiddish	No candidates for scaling in 2014								
<b>Mathematics:</b>										
NF	Further Mathematics	27.9	7.0	18	23	28	33	38	44	50
NJ	Mathematical Methods (CAS)	33.4	8.4	21	28	35	41	45	49	50
NS	Specialist Mathematics	40.6	8.3	27	35	42	47	51	54	55
ME	Media	26.3	7.3	15	20	25	31	37	43	50
<b>Music:</b>										
MC04	Music Performance	29.8	7.2	19	24	30	35	40	45	50
MC05	Music Investigation	30.4	7.2	20	24	28	32	37	42	50
MD	Music Styles and Composition	31.7	6.9	21	27	32	37	42	47	50
OS	Outdoor and Environmental Studies	24.8	6.9	14	19	24	29	35	42	50
PL	Philosophy	30.3	7.7	18	24	30	35	41	46	50
PE	Physical Education	27.4	7.2	17	22	27	32	38	44	50
PH	Physics	32.1	7.3	21	27	32	38	43	47	50
PY	Psychology	28.3	7.3	17	22	28	33	39	45	50
RS	Religion and Society	29.7	7.5	18	24	29	35	41	46	50
SO03	Sociology	26.0	7.3	15	19	25	30	37	43	50
SA	Studio Arts	26.1	7.2	15	20	25	31	37	43	50
SE03	Systems Engineering	25.4	6.6	15	19	24	29	34	41	50
TT	Texts and Traditions	29.9	6.8	20	25	30	35	40	45	50
TS	Theatre Studies	29.4	7.3	18	23	29	34	39	45	50
VC	Visual Communication Design	26.8	7.0	16	21	26	31	37	43	50
<b>VCE VET:</b>										
BU20	VCE VET Business	25.3	6.9	16	20	25	30	35	42	50
CT25	VCE VET Community Services	23.2	6.6	13	17	21	26	32	39	50
DN05	VCE VET Dance	25.7	6.7	19	23	26	30	35	41	50
EG16	VCE VET Engineering Studies	24.5	6.3	17	21	25	29	34	40	50
EQ04	VCE VET Equine Industry	27.3	6.5	17	22	26	31	36	42	50
FN16	VCE VET Furnishing	22.5	6.2	13	17	21	26	32	40	50
HS13	VCE VET Hospitality	26.8	7.3	16	20	25	30	36	42	50
HS14	VCE VET Hospitality – Kitchen Operations	24.9	6.9	14	18	23	29	35	42	50
IN50	VCE VET Information Technology	22.9	6.2	16	20	24	28	33	40	50
ET11	VCE VET Integrated Technologies	23.1	6.8	17	21	25	29	34	40	50
MU05	VCE VET Interactive Digital Media	26.3	6.6	16	21	25	30	36	42	50
LB20	VCE VET Laboratory Skills	32.2	6.4	21	26	32	37	42	46	50
MI13	VCE VET Music	26.1	6.7	17	21	25	30	35	41	50
SR29	VCE VET Sport and Recreation	24.6	6.8	14	18	23	28	34	41	50
MI15	VCE VET Technical Production	26.3	6.7	16	20	25	30	36	43	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 2014.

**Small VCE Languages - 2014 VTAC Scaled Study Scores**

Small VCE Language Study Score	1	2	3	4	5	6	7	8	9	10
2014 VTAC Scaled Study Score	1.0	2.0	3.1	4.2	5.4	6.6	7.9	9.1	10.4	11.7
Small VCE Language Study Score	11	12	13	14	15	16	17	18	19	20
2014 VTAC Scaled Study Score	12.9	14.2	15.5	16.8	18.0	19.3	20.5	21.8	23.0	24.2
Small VCE Language Study Score	21	22	23	24	25	26	27	28	29	30
2014 VTAC Scaled Study Score	25.4	26.6	27.8	28.9	30.1	31.2	32.3	33.4	34.4	35.4
Small VCE Language Study Score	31	32	33	34	35	36	37	38	39	40
2014 VTAC Scaled Study Score	36.5	37.4	38.4	39.4	40.3	41.2	42.0	42.9	43.7	44.5
Small VCE Language Study Score	41	42	43	44	45	46	47	48	49	50
2014 VTAC Scaled Study Score	45.3	46.0	46.8	47.5	48.1	48.8	49.4	50.0	50.5	50.8

### 2014 Scaled Aggregate Table

Based on the 2014 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. This conversion is now made to 2 decimal places, whereas in past years it has been made to only 1 decimal place.

2014 ATAR	Min Scaled 2014 Aggregate for ATAR
40.00	92.87
45.00	98.50
50.00	104.27
55.00	110.21
60.00	116.09
62.00	118.45
64.00	120.96
65.00	122.11
66.00	123.33
68.00	125.83
70.00	128.36
72.00	130.89
74.00	133.64
75.00	135.06
76.00	136.47
78.00	139.31
80.00	142.29
82.00	145.42
84.00	148.72
85.00	150.37
86.00	152.16
88.00	156.04
90.00	160.27
91.00	162.57
92.00	165.02
93.00	167.71
94.00	170.62
95.00	173.89
96.00	177.22
97.00	181.31
97.50	183.72
98.00	186.42
98.50	189.96
99.00	194.11
99.25	196.48
99.50	199.79
99.60	201.43
99.70	203.46
99.80	205.59
99.90	208.98