

## 2015 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 2015 scaling population if, excluding small studies, they have obtained at least one VCAA study score in 2015, 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 2015.

The following table gives the 2015 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	2015 Study	Mean	St. Dev.	20	25	30	35	40	45	50
AC	Accounting	30.9	7.1	20	26	31	36	41	46	50
AH	Agricultural & Horticultural Studies	24.5	6.5	14	18	23	28	34	41	50
AL	Algorithmics (HESS)	35.7	6.3	24	30	36	40	45	48	50
AT	Art	27.3	7.6	16	21	26	32	38	45	50
BI	Biology	30.4	7.3	19	25	30	36	41	46	50
BM	Business Management	26.7	7.2	16	21	26	31	37	43	50
CH	Chemistry	33.9	7.2	23	29	34	39	44	47	50
CC	Classical Studies	30.8	7.6	19	25	30	36	41	46	50
DA	Dance	28.5	7.0	19	23	28	33	38	44	50
DT	Product Design and Technology	24.0	6.8	13	17	22	28	34	42	50
DR	Drama	27.6	7.6	17	22	27	33	39	45	50
EC	Economics	31.8	7.2	21	26	32	37	42	46	50
EN	English	28.1	7.5	17	22	28	33	39	45	50
EF	English (EAL)	29.5	8.2	17	23	29	35	41	47	50
EG	English Language	33.1	7.3	22	28	33	39	43	47	50
EV	Environmental Science	28.4	7.1	18	23	28	33	39	44	50
XI03	Extended Investigation	33.5	7.0	23	29	34	40	44	48	50
FT	Food and Technology	24.0	7.1	14	18	23	28	35	42	50
GE	Geography	29.3	6.9	19	24	29	34	39	45	50
HH	Health and Human Development	26.5	7.2	16	21	26	31	37	43	50
	<b>History:</b>									
HA	Australian History	27.7	8.1	15	21	27	33	40	46	50
H9	Renaissance Italy	30.5	7.7	18	24	30	36	41	46	50
HR	Revolutions	29.4	7.5	18	23	29	35	40	46	50
IE	Industry & Enterprise Studies	23.9	7.6	12	16	21	27	33	41	50
	<b>Information Technology:</b>									
IT03	Software Development	27.6	6.9	18	22	27	32	38	43	50
IT02	IT Applications	25.7	6.9	16	20	25	30	36	43	50
	<b>Politics:</b>									
PS03	Australian Politics	32.9	6.6	22	28	33	38	42	46	50
PS05	Global Politics	32.2	7.4	21	27	32	38	43	47	50
LS	Legal Studies	28.4	7.7	17	22	28	34	40	45	50
LI	Literature	30.9	7.3	20	25	31	36	41	46	50
	<b>Languages:</b>									
AL	Albanian			Small Study or no candidates, see Notes 1 & 2 below						
AR	Arabic	31.1	7.2	20	26	31	37	42	47	50
AM	Armenian			Small Study or no candidates, see Notes 1 & 2 below						
AU	Auslan	33.0	6.6	23	28	32	37	41	45	50
LO50	Bosnian									
CN	Chinese (FL)	36.2	7.6	21	29	35	41	46	50	52
CL	Chinese (SL)	40.0	6.8	30	36	41	45	49	52	54
CK	Chinese (SL Advanced)	38.1	6.8	26	33	39	44	47	50	52
AG	Classical Greek	40.0	5.9	31	37	41	45	48	50	52
LO51	Classical Hebrew			Small Study or no candidates, see Notes 1 & 2 below						
CR	Croatian	33.6	5.1	27	30	34	37	41	44	50
DU	Dutch			Small Study or no candidates, see Notes 1 & 2 below						
FP	Filipino	29.8	5.3	18	22	27	31	37	42	50
FR	French	40.4	6.4	30	36	41	45	49	51	53
GN	German	38.3	6.9	28	34	39	44	47	50	52
MG	Greek	35.4	6.6	24	30	35	40	44	48	50
HB	Hebrew	42.3	6.1	31	38	43	47	50	53	55
HI	Hindi	35.6	7.6	22	29	36	41	46	49	51
HU	Hungarian			Small Study or no candidates, see Notes 1 & 2 below						
AI	Indigenous Languages of Victoria			Small Study or no candidates, see Notes 1 & 2 below						
IN	Indonesian (FL)	33.4	7	19	27	35	41	46	49	50
IX	Indonesian (SL)	37.0	6.7	26	32	37	42	46	49	50
IL	Italian	36.7	6.1	27	33	37	41	45	48	50

JA	Japanese (FL)	27.8	8.2	12	19	27	35	42	48	50
JS	Japanese (SL)	38.5	6.8	28	34	39	44	47	50	52
KH	Khmer	29.8	7.6	17	23	30	36	42	47	50
KO	Korean (FL)	33.4	7.3	21	27	34	39	44	48	50
KS	Korean (SL)	37.6	7.3	26	32	38	43	47	50	52
LA	Latin	44.4	6.4	34	41	46	49	52	54	55
MA	Macedonian	31.2	5.8	21	26	30	34	39	44	50
ML	Maltese			Small Study or no candidates, see Notes 1 & 2 below						
PN	Persian	30.5	7.4	17	23	30	36	41	46	50
PO	Polish	34.1	5.5	23	28	32	37	41	45	50
PG	Portuguese			Small Study or no candidates, see Notes 1 & 2 below						
LO49	Punjabi	32.8	5.7	23	28	33	38	42	46	50
RO	Romanian			Small Study or no candidates, see Notes 1 & 2 below						
RU	Russian	35.6	8.9	20	29	38	45	50	52	53
SE	Serbian	34.4	5.5	21	28	35	40	45	48	50
SI	Sinhala	33.6	6.7	23	29	34	39	43	47	50
SP	Spanish	33.2	6.9	21	27	32	38	43	47	50
SW	Swedish			Small Study or no candidates, see Notes 1 & 2 below						
TA	Tamil			Small Study or no candidates, see Notes 1 & 2 below						
TU	Turkish	30.2	7.4	18	24	29	35	41	46	50
UK	Ukrainian			Small Study or no candidates, see Notes 1 & 2 below						
VT	Vietnamese	34.9	6.9	23	29	34	39	44	47	50
LO52	Yiddish			Small Study or no candidates, see Notes 1 & 2 below						
<b>Mathematics:</b>										
NF	Further Mathematics	27.8	7	18	23	27	33	38	44	50
NJ	Mathematical Methods (CAS)	33.8	8.5	21	28	34	40	45	49	51
NS	Specialist Mathematics	39.9	8.3	27	34	41	46	50	53	55
ME	Media	26.2	7.4	15	20	25	31	37	44	50
<b>Music:</b>										
MC04	Music Performance	29.9	7	20	25	30	35	40	45	50
MC05	Music Investigation	30.0	6.8	22	25	29	33	37	42	50
MD	Music Styles and Composition	31.4	7.5	18	24	31	36	42	47	50
OS	Outdoor and Environmental Studies	24.7	6.8	15	19	24	29	35	42	50
PL	Philosophy	29.1	7.8	16	22	28	34	40	46	50
PE	Physical Education	27.4	7.2	17	22	27	32	38	44	50
PH	Physics	32.2	7.3	21	27	32	38	42	47	50
PY	Psychology	28.3	7.3	17	22	28	33	39	45	50
RS	Religion and Society	28.9	7.3	18	24	29	34	40	45	50
SO03	Sociology	25.5	7.7	14	19	24	30	37	44	50
SA	Studio Arts	26.0	7.3	15	20	25	31	37	43	50
SE03	Systems Engineering	24.8	6.5	15	19	24	29	35	41	50
TT	Texts and Traditions	29.5	7	20	25	30	34	40	45	50
TS	Theatre Studies	29.2	7	18	24	29	34	40	45	50
VC	Visual Communication Design	26.7	7.1	16	21	26	31	37	44	50
<b>VCE VET:</b>										
BU20	VCE VET Business	24.5	7	14	18	23	28	34	42	50
CT25	VCE VET Community Services	23.2	6.6	13	17	22	27	33	40	50
DN05	VCE VET Dance	27.3	6.4	18	22	26	31	36	42	50
EG16	VCE VET Engineering Studies	24.1	5.7	17	21	25	29	34	40	50
EQ04	VCE VET Equine Industry	27.7	7	18	22	27	32	37	43	50
FN16	VCE VET Furnishing	23.1	6.6	17	21	25	29	34	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	23.5	6.4	14	18	23	28	33	40	50
ET11	VCE VET Integrated Technologies	22.5	7.2	14	18	23	28	34	41	50
MU05	VCE VET Interactive Digital Media	25.9	6.6	16	20	25	29	35	41	50
LB20	VCE VET Laboratory Skills	30.0	7.5	19	24	29	34	39	45	50
MI13	VCE VET Music	25.0	6.4	16	20	24	29	34	41	50
SR29	VCE VET Sport and Recreation	24.0	6.7	14	18	23	28	34	40	50
MI15	VCE VET Technical Production	25.8	6.5	16	20	25	30	35	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 2015.

**Small VCE Languages - 2015 VTAC Scaled Study Scores**

Small VCE Language Study Score	1	2	3	4	5	6	7	8	9	10
2015 VTAC Scaled Study Score	1.0	2.0	3.0	4.2	5.4	6.6	7.9	9.1	10.3	11.6
Small VCE Language Study Score	11	12	13	14	15	16	17	18	19	20
2015 VTAC Scaled Study Score	12.9	14.2	15.4	16.7	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
2015 VTAC Scaled Study Score	25.4	26.6	27.8	28.9	30.1	31.2	32.3	33.4	34.4	35.5
Small VCE Language Study Score	31	32	33	34	35	36	37	38	39	40
2015 VTAC Scaled Study Score	36.5	37.5	38.4	39.4	40.3	41.2	42.1	42.9	43.8	44.6
Small VCE Language Study Score	41	42	43	44	45	46	47	48	49	50
2015 VTAC Scaled Study Score	45.3	46.1	46.8	47.5	48.2	48.8	49.4	50.0	50.5	50.8

### 2015 Scaled Aggregate Table

Based on the 2015 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.

2015 ATAR	Min Scaled 2015 Aggregate for ATAR
40.00	96.58
45.00	101.55
50.00	106.80
55.00	111.99
60.00	117.29
62.00	119.49
64.00	121.74
65.00	122.84
66.00	123.95
68.00	126.33
70.00	128.61
72.00	130.94
74.00	133.43
75.00	134.78
76.00	136.17
78.00	138.89
80.00	141.72
82.00	144.75
84.00	148.04
85.00	149.69
86.00	151.47
88.00	155.32
90.00	159.43
91.00	161.77
92.00	164.27
93.00	166.82
94.00	169.61
95.00	172.79
96.00	176.00
97.00	180.25
97.50	182.78
98.00	185.53
98.50	188.94
99.00	192.88
99.25	195.75
99.50	198.85
99.60	200.22
99.70	202.40
99.80	204.56
99.90	207.58