

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 2023 scaling population if, excluding small studies, they have obtained at least one VCAA study score in 2023, at least four in total, at least one in an English study [English, English as an Additional Language, 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 2023.

The following table gives the 2023 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                      | 2023 Study                           | Mean | St. Dev. | 20   | 25 | 30 | 35 | 40 | 45 | 50 |
|---------------------------|--------------------------------------|------|----------|--|----|----|----|----|----|----|
| AC                        | Accounting                           | 30.8 | 7.2      | 20   | 25 | 31 | 36 | 41 | 46 | 50 |
| AH                        | Agricultural & Horticultural Studies | 25.3 | 6.5      | 15   | 19 | 24 | 29 | 34 | 41 | 50 |
| AL03                      | Algorithmics (HESS)                  | 37.6 | 6.2      | 26   | 33 | 39 | 43 | 47 | 49 | 50 |
| <b>Applied Computing:</b> |                                      |      |          |  |    |    |    |    |    |    |
| IT02                      | Data Analytics                       | 27.5 | 7.5      | 16   | 21 | 26 | 31 | 37 | 44 | 50 |
| IT03                      | Software Development                 | 28.5 | 7.0      | 18   | 23 | 28 | 33 | 39 | 45 | 50 |
| AT                        | Art Creative Practice                | 27.4 | 7.3      | 17   | 22 | 27 | 33 | 38 | 44 | 50 |
| SA                        | Art Making and Exhibiting            | 26.6 | 7.3      | 15   | 20 | 25 | 31 | 37 | 44 | 50 |
| BI                        | Biology                              | 30.4 | 7.4      | 19   | 25 | 30 | 36 | 41 | 46 | 50 |
| BM                        | Business Management                  | 26.9 | 7.4      | 16   | 21 | 26 | 32 | 38 | 44 | 50 |
| CH                        | Chemistry                            | 33.7 | 7.3      | 22   | 28 | 34 | 39 | 44 | 47 | 50 |
| CC                        | Classical Studies                    | 30.2 | 7.5      | 18   | 24 | 30 | 36 | 42 | 46 | 50 |
| DA                        | Dance                                | 28.4 | 6.7      | 19   | 23 | 28 | 33 | 38 | 44 | 50 |
| DR                        | Drama                                | 28.4 | 7.2      | 18   | 23 | 28 | 34 | 39 | 44 | 50 |
| EC                        | Economics                            | 31.4 | 7.1      | 21   | 26 | 31 | 36 | 41 | 46 | 50 |
| EN                        | English                              | 28.1 | 7.6      | 17   | 22 | 28 | 34 | 39 | 45 | 50 |
| EF                        | English as an Additional Language    | 28.2 | 8.3      | 16   | 22 | 28 | 34 | 40 | 46 | 50 |
| EG                        | English Language                     | 32.2 | 7.2      | 22   | 27 | 32 | 37 | 42 | 46 | 50 |
| EV                        | Environmental Science                | 28.1 | 7.1      | 18   | 23 | 28 | 33 | 38 | 44 | 50 |
| XI03                      | Extended Investigation               | 33.2 | 6.7      | 22   | 28 | 33 | 38 | 42 | 46 | 50 |
| FT                        | Food Studies                         | 24.0 | 7.4      | 14   | 18 | 23 | 29 | 35 | 42 | 50 |
| GE                        | Geography                            | 28.5 | 7.3      | 18   | 23 | 28 | 34 | 39 | 45 | 50 |
| HH                        | Health and Human Development         | 26.4 | 7.3      | 16   | 21 | 26 | 31 | 37 | 43 | 50 |
| <b>History:</b>           |                                      |      |          |  |    |    |    |    |    |    |
| HI17                      | Ancient History                      | 27.9 | 8.0      | 16   | 22 | 28 | 34 | 40 | 45 | 50 |
| HA                        | Australian History                   | 28.5 | 8.0      | 17   | 22 | 28 | 34 | 40 | 45 | 50 |
| HR                        | Revolutions                          | 29.0 | 7.6      | 18   | 23 | 29 | 34 | 40 | 45 | 50 |
| IE                        | Industry and Enterprise              | 24.1 | 8.3      | 11   | 15 | 21 | 27 | 34 | 42 | 50 |
| <b>Languages:</b>         |                                      |      |          |  |    |    |    |    |    |    |
| AI                        | Aboriginal Languages                 |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| AR                        | Arabic                               | 30.8 | 8.0      | 14   | 20 | 27 | 34 | 41 | 47 | 50 |
| AM                        | Armenian                             |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| AU                        | Auslan                               | 35.1 | 6.1      | 23   | 30 | 35 | 40 | 45 | 48 | 50 |
| BE                        | Bengali                              |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| LO50                      | Bosnian                              |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| LO53                      | Chin Hakha                           |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| CN                        | Chinese First Language               | 33.1 | 8.5      | 19   | 26 | 33 | 39 | 44 | 48 | 50 |
| LO57                      | Chinese Language Culture and Society | 32.6 | 7.1      | 22   | 28 | 33 | 38 | 43 | 47 | 50 |
| CK                        | Chinese Second Language Advanced     | 37.1 | 7.4      | 24   | 31 | 37 | 43 | 47 | 50 | 52 |
| CL                        | Chinese Second Language              | 40.5 | 6.8      | 30   | 36 | 41 | 45 | 49 | 52 | 54 |
| AG                        | Classical Greek                      |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| LO51                      | Classical Hebrew                     |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| CR                        | Croatian                             |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| DU                        | Dutch                                |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| FP                        | Filipino                             |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| FR                        | French                               | 40.2 | 6.7      | 30   | 36 | 41 | 45 | 49 | 52 | 54 |
| GN                        | German                               | 38.8 | 6.7      | 28   | 34 | 40 | 44 | 48 | 51 | 52 |
| MG                        | Greek                                | 35.2 | 6.4      | 25   | 30 | 35 | 40 | 44 | 47 | 50 |
| HB                        | Hebrew                               | 40.3 | 5.9      | 35   | 40 | 44 | 47 | 49 | 51 | 52 |
| HI                        | Hindi                                | 36.9 | 8.0      | 21   | 29 | 36 | 43 | 48 | 51 | 53 |
| HU                        | Hungarian                            |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| AI                        | Indigenous Languages                 |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| IN                        | Indonesian First Language            |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| IX                        | Indonesian Second Language           | 36.8 | 7.3      | 25   | 31 | 37 | 42 | 46 | 49 | 51 |
| IL                        | Italian                              | 36.5 | 6.4      | 27   | 32 | 37 | 41 | 45 | 48 | 50 |
| JA                        | Japanese First Language              |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| JS                        | Japanese Second Language             | 37.2 | 7.0      | 26   | 33 | 38 | 43 | 47 | 49 | 51 |
| LO55                      | Karen                                | 27.5 | 4.1      | 22   | 27 | 32 | 36 | 41 | 45 | 50 |
| KH                        | Khmer                                | 30.4 | 6.8      | 19   | 24 | 29 | 34 | 39 | 44 | 50 |

| Code | 2023 Study                               | Mean | St. Dev. | 20   | 25 | 30 | 35 | 40 | 45 | 50 |
|------|--|------|----------|--|----|----|----|----|----|----|
| KO   | Korean First Language                    |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| KS   | Korean Second Language                   | 38.5 | 6.1      | 23   | 30 | 37 | 42 | 46 | 49 | 51 |
| LA   | Latin                                    | 45.0 | 6.6      | 35   | 42 | 47 | 50 | 53 | 54 | 55 |
| MA   | Macedonian                               | 28.7 | 6.6      | 20   | 26 | 32 | 37 | 42 | 47 | 50 |
| PN   | Persian                                  | 29.4 | 6.4      | 19   | 22 | 26 | 30 | 35 | 41 | 50 |
| PO   | Polish                                   |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| PG   | Portuguese                               |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| LO49 | Punjabi                                  | 32.3 | 6.6      | 22   | 28 | 33 | 38 | 42 | 46 | 50 |
| RO   | Romanian                                 |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| RU   | Russian                                  | 37.3 | 7.7      | 23   | 30 | 37 | 43 | 47 | 51 | 53 |
| SE   | Serbian                                  | 30.9 | 6.7      | 18   | 23 | 28 | 33 | 38 | 44 | 50 |
| SI   | Sinhala                                  | 38.7 | 5.9      | 28   | 33 | 38 | 42 | 46 | 49 | 51 |
| SP   | Spanish                                  | 35.8 | 6.2      | 24   | 30 | 35 | 40 | 44 | 47 | 50 |
| SW   | Swedish                                  |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| TA   | Tamil                                    |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
| TU   | Turkish                                  | 32.0 | 6.8      | 20   | 25 | 30 | 35 | 40 | 45 | 50 |
| LO54 | Vietnamese First Language                | 32.9 | 6.2      | 23   | 28 | 32 | 37 | 41 | 45 | 50 |
| LO31 | Vietnamese Second Language               | 36.3 | 7.2      | 25   | 31 | 36 | 41 | 45 | 49 | 51 |
| LO52 | Yiddish                                  |      |          | Small Study or no candidates, see Note below |    |    |    |    |    |    |
|      | <b>All small LOTEs</b>                   |      |          | 24   | 30 | 35 | 40 | 44 | 48 | 51 |
| LS   | Legal Studies                            | 28.4 | 7.6      | 17   | 23 | 28 | 34 | 40 | 45 | 50 |
| LI   | Literature                               | 31.2 | 7.2      | 20   | 26 | 31 | 36 | 41 | 46 | 50 |
|      | <b>Mathematics:</b>                      |      |          |  |    |    |    |    |    |    |
| MA10 | Foundation Mathematics                   | 20.6 | 7.0      | 16   | 19 | 24 | 28 | 33 | 40 | 50 |
| NF   | General Mathematics                      | 27.7 | 7.2      | 18   | 22 | 27 | 33 | 38 | 44 | 50 |
| NJ   | Mathematical Methods                     | 34.3 | 8.5      | 21   | 28 | 35 | 41 | 46 | 49 | 51 |
| NS   | Specialist Mathematics                   | 41.6 | 8.1      | 29   | 37 | 43 | 48 | 52 | 54 | 55 |
| ME   | Media                                    | 27.0 | 7.3      | 15   | 20 | 26 | 32 | 38 | 44 | 50 |
|      | <b>Music:</b>                            |      |          |  |    |    |    |    |    |    |
| MD   | Music Composition                        | 31.0 | 7.0      | 19   | 25 | 31 | 36 | 41 | 46 | 50 |
| MC06 | Music Contemporary Performance           | 27.3 | 6.9      | 18   | 22 | 27 | 32 | 38 | 44 | 50 |
| MC05 | Music Inquiry                            | 29.0 | 7.7      | 17   | 22 | 27 | 32 | 38 | 44 | 50 |
| MC04 | Music Repertoire Performance             | 31.8 | 7.0      | 22   | 27 | 31 | 36 | 40 | 45 | 50 |
| OS   | Outdoor and Environmental Studies        | 25.0 | 7.0      | 15   | 19 | 24 | 30 | 36 | 42 | 50 |
| PL   | Philosophy                               | 30.1 | 7.4      | 19   | 24 | 30 | 35 | 41 | 46 | 50 |
| PE   | Physical Education                       | 27.2 | 7.3      | 17   | 22 | 27 | 32 | 38 | 44 | 50 |
| PH   | Physics                                  | 32.2 | 7.5      | 21   | 27 | 32 | 38 | 43 | 47 | 50 |
|      | <b>Politics:</b>                         |      |          |  |    |    |    |    |    |    |
| PS03 | Australian Politics                      | 32.2 | 7.2      | 21   | 27 | 32 | 37 | 42 | 47 | 50 |
| PS05 | Global Politics                          | 32.0 | 7.3      | 21   | 27 | 32 | 37 | 42 | 47 | 50 |
| DT   | Product Design and Technology            | 24.9 | 7.3      | 13   | 18 | 23 | 29 | 36 | 43 | 50 |
| PY   | Psychology                               | 28.4 | 7.3      | 18   | 23 | 28 | 34 | 39 | 45 | 50 |
| RS   | Religion and Society                     | 28.3 | 7.6      | 17   | 23 | 28 | 34 | 40 | 45 | 50 |
| SO03 | Sociology                                | 26.4 | 7.8      | 15   | 20 | 26 | 32 | 38 | 44 | 50 |
| SE03 | Systems Engineering                      | 26.1 | 6.7      | 16   | 20 | 25 | 31 | 36 | 43 | 50 |
| TT   | Texts and Traditions                     | 26.8 | 7.7      | 15   | 20 | 26 | 32 | 38 | 44 | 50 |
| TS   | Theatre Studies                          | 28.9 | 7.3      | 18   | 23 | 29 | 34 | 40 | 45 | 50 |
| VC   | Visual Communication Design              | 27.3 | 7.2      | 16   | 21 | 26 | 32 | 38 | 44 | 50 |
|      | <b>VCE VET:</b>                          |      |          |  |    |    |    |    |    |    |
| BU23 | VCE VET Business                         | 24.3 | 7.3      | 14   | 19 | 24 | 29 | 36 | 42 | 50 |
| CT41 | VCE VET Community Services               | 24.9 | 7.9      | 15   | 19 | 24 | 29 | 35 | 41 | 50 |
| MU07 | VCE VET Creative and Digital Media       | 26.2 | 7.2      | 17   | 21 | 26 | 31 | 37 | 43 | 50 |
| DN17 | VCE VET Dance                            | 27.9 | 5.8      | 20   | 24 | 28 | 32 | 36 | 41 | 50 |
| EG16 | VCE VET Engineering Studies              | 25.6 | 6.5      | 16   | 20 | 24 | 29 | 35 | 41 | 50 |
| EQ08 | VCE VET Equine Studies                   | 27.2 | 6.1      | 18   | 22 | 26 | 30 | 35 | 41 | 50 |
| FN19 | VCE VET Furnishing                       | 24.1 | 6.8      | 14   | 18 | 22 | 27 | 33 | 40 | 50 |
| CT37 | VCE VET Health Services                  | 25.6 | 7.2      | 15   | 20 | 25 | 30 | 36 | 42 | 50 |
| HS31 | VCE VET Hospitality                      | 25.8 | 6.8      | 16   | 20 | 25 | 30 | 36 | 42 | 50 |
| HS32 | VCE VET Hospitality (Kitchen Operations) | 24.6 | 6.6      | 14   | 19 | 23 | 29 | 35 | 42 | 50 |
| IN60 | VCE VET Information Technology           | 25.3 | 6.5      | 15   | 19 | 24 | 29 | 35 | 41 | 50 |
| ET16 | VCE VET Integrated Technologies          | 30.0 | 7.0      | 20   | 25 | 30 | 35 | 40 | 45 | 50 |
| LB21 | VCE VET Laboratory Skills                | 29.2 | 6.8      | 19   | 23 | 28 | 33 | 38 | 44 | 50 |
| MI19 | VCE VET Music Performance                | 26.7 | 6.3      | 19   | 23 | 26 | 31 | 35 | 41 | 50 |
| MI30 | VCE VET Music Sound Production           | 26.3 | 6.3      | 18   | 22 | 26 | 30 | 35 | 40 | 50 |
| SR41 | VCE VET Sport and Recreation             | 24.0 | 6.6      | 14   | 18 | 23 | 28 | 33 | 40 | 50 |

**Note:** Small LOTE (Languages Other Than English) 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. For small VCE Languages, the Language adjustment is the maximum of zero and the average Language adjustment over the previous three years. The ATAR Scaled Scores for small VCE Languages in 2023 are shown at the end of the Languages section of the above table under the title "All small LOTEs".

## 2023 Scaled Aggregate to ATAR Table

Based on the 2023 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.

| 2023 ATAR | Minimum Scaled 2023<br>Aggregate for ATAR |
|-----------|---|
| 40.00     | 79.85                                     |
| 45.00     | 87.00                                     |
| 50.00     | 93.83                                     |
| 55.00     | 100.52                                    |
| 60.00     | 107.02                                    |
| 62.00     | 109.73                                    |
| 64.00     | 112.36                                    |
| 65.00     | 113.73                                    |
| 66.00     | 115.08                                    |
| 68.00     | 117.91                                    |
| 70.00     | 120.73                                    |
| 72.00     | 123.51                                    |
| 74.00     | 126.41                                    |
| 75.00     | 127.85                                    |
| 76.00     | 129.33                                    |
| 78.00     | 132.43                                    |
| 80.00     | 135.67                                    |
| 82.00     | 139.06                                    |
| 84.00     | 142.58                                    |
| 85.00     | 144.48                                    |
| 86.00     | 146.35                                    |
| 88.00     | 150.66                                    |
| 90.00     | 155.08                                    |
| 91.00     | 157.65                                    |
| 92.00     | 160.36                                    |
| 93.00     | 163.14                                    |
| 94.00     | 166.22                                    |
| 95.00     | 169.64                                    |
| 96.00     | 173.64                                    |
| 97.00     | 178.01                                    |
| 97.50     | 180.79                                    |
| 98.00     | 183.94                                    |
| 98.50     | 187.46                                    |
| 99.00     | 191.70                                    |
| 99.25     | 194.26                                    |
| 99.50     | 198.18                                    |
| 99.60     | 200.10                                    |
| 99.70     | 202.24                                    |
| 99.80     | 204.45                                    |
| 99.90     | 208.18                                    |