

## 2007 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 2007 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 2006 and 2007, provided that at most one result is from 2006. The scaling population is therefore a subset of the entire population. The means and standard deviations below pertain to the scaling population in 2007.

The following table gives the 2007 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.

| 2007 Study                                    | Mean  | St. Dev. | 20 | 25 | 30                                 | 35 | 40 | 45 | 50 |
|---|-------|----------|----|----|------------------------------------|----|----|----|----|
| Accounting                                    | 30.03 | 7.2      | 18 | 24 | 30                                 | 35 | 41 | 46 | 50 |
| Agricultural & Horticultural Studies          | 23.86 | 7.3      | 13 | 17 | 22                                 | 27 | 34 | 41 | 50 |
| Art   | 27.30 | 7.5      | 16 | 21 | 26                                 | 32 | 38 | 44 | 50 |
| Biology                                       | 30.35 | 7.1      | 19 | 25 | 30                                 | 36 | 41 | 46 | 50 |
| Business Management                           | 26.25 | 7.2      | 16 | 21 | 26                                 | 31 | 37 | 43 | 50 |
| Chemistry                                     | 34.28 | 7.2      | 22 | 29 | 35                                 | 40 | 44 | 48 | 50 |
| Classical Societies & Cultures                | 31.50 | 7.4      | 20 | 26 | 31                                 | 37 | 42 | 46 | 50 |
| Dance   | 27.66 | 6.8      | 18 | 23 | 28                                 | 33 | 39 | 44 | 50 |
| Design and Technology                         | 23.89 | 6.9      | 13 | 17 | 22                                 | 28 | 34 | 42 | 50 |
| Drama   | 28.20 | 7.2      | 18 | 23 | 28                                 | 33 | 39 | 44 | 50 |
| Economics                                     | 31.50 | 7.1      | 21 | 26 | 32                                 | 37 | 42 | 46 | 50 |
| English                                       | 28.48 | 7.5      | 17 | 22 | 28                                 | 34 | 40 | 45 | 50 |
| English (ESL)                                 | 29.08 | 8.1      | 16 | 22 | 28                                 | 35 | 41 | 46 | 50 |
| English Language                              | 30.84 | 7.5      | 19 | 25 | 31                                 | 36 | 42 | 46 | 50 |
| Environmental Science                         | 28.06 | 6.8      | 17 | 22 | 28                                 | 33 | 39 | 45 | 50 |
| Food and Technology                           | 23.82 | 6.9      | 13 | 18 | 22                                 | 28 | 34 | 41 | 50 |
| Geography                                     | 29.18 | 7.5      | 18 | 23 | 29                                 | 35 | 40 | 46 | 50 |
| Health and Human Development                  | 26.33 | 7.1      | 16 | 20 | 26                                 | 31 | 37 | 43 | 50 |
| <b>History:</b>                               |       |          |    |    |                                    |    |    |    |    |
| Australian History                            | 28.29 | 7.7      | 16 | 22 | 28                                 | 34 | 40 | 45 | 50 |
| Renaissance Italy                             | 33.82 | 7.3      | 22 | 28 | 34                                 | 39 | 44 | 47 | 50 |
| Revolutions                                   | 30.62 | 7.7      | 19 | 25 | 31                                 | 36 | 42 | 47 | 50 |
| Industry & Enterprise Studies                 | 23.10 | 7.4      | 10 | 15 | 20                                 | 26 | 33 | 42 | 50 |
| <b>Information Technology:</b>                |       |          |    |    |                                    |    |    |    |    |
| Information Technology – Software Development | 26.63 | 6.7      | 17 | 21 | 26                                 | 32 | 37 | 43 | 50 |
| Information Technology – IT Applications      | 25.38 | 6.8      | 16 | 20 | 25                                 | 31 | 37 | 43 | 50 |
| <b>International Politics:</b>                |       |          |    |    |                                    |    |    |    |    |
| International Studies                         | 31.56 | 7.7      | 20 | 26 | 32                                 | 38 | 43 | 47 | 50 |
| National Politics                             | 32.64 | 7.0      | 22 | 27 | 33                                 | 38 | 42 | 47 | 50 |
| Legal Studies                                 | 28.53 | 7.5      | 17 | 23 | 28                                 | 34 | 40 | 45 | 50 |
| Literature                                    | 31.17 | 7.2      | 20 | 26 | 31                                 | 36 | 41 | 46 | 50 |
| <b>LOTE:</b>                                  |       |          |    |    |                                    |    |    |    |    |
| Albanian                                      | 24.55 | 3.9      | 21 | 24 | 28                                 | 32 | 36 | 42 | 50 |
| Arabic  | 29.32 | 6.0      | 20 | 24 | 28                                 | 32 | 37 | 42 | 50 |
| Armenian                                      |       |          |    |    | Small Study, see Notes 1 & 2 below |    |    |    |    |
| Auslan  | 30.84 | 5.5      | 23 | 26 | 29                                 | 32 | 36 | 41 | 50 |
| Bosnian                                       | 26.78 | 4.7      | 20 | 23 | 26                                 | 29 | 33 | 38 | 50 |
| Chinese (FL)                                  | 34.15 | 7.5      | 21 | 28 | 34                                 | 40 | 45 | 48 | 50 |
| Chinese (SL)                                  | 39.92 | 6.9      | 30 | 37 | 42                                 | 46 | 50 | 52 | 54 |
| Chinese (SL Advanced)                         | 38.67 | 7.2      | 28 | 35 | 40                                 | 45 | 49 | 51 | 53 |
| Classical Greek                               | 44.91 | 6.4      | 35 | 41 | 45                                 | 49 | 52 | 54 | 55 |
| Classical Hebrew                              |       |          |    |    | Small Study, see Notes 1 & 2 below |    |    |    |    |
| Croatian                                      | 29.77 | 7.3      | 19 | 25 | 31                                 | 36 | 41 | 46 | 50 |
| Dutch   |       |          |    |    | Small Study, see Notes 1 & 2 below |    |    |    |    |
| Filipino                                      | 27.57 | 6.0      | 19 | 24 | 29                                 | 34 | 39 | 44 | 50 |
| French  | 40.70 | 6.4      | 31 | 37 | 42                                 | 46 | 49 | 52 | 54 |
| German  | 39.28 | 7.2      | 28 | 34 | 40                                 | 45 | 48 | 52 | 54 |
| Greek   | 32.01 | 6.8      | 22 | 27 | 32                                 | 37 | 42 | 46 | 50 |
| Hebrew  | 41.75 | 6.4      | 31 | 37 | 42                                 | 46 | 50 | 53 | 55 |
| Hindi   | 36.47 | 7.4      | 19 | 25 | 32                                 | 38 | 44 | 48 | 51 |
| Hungarian                                     |       |          |    |    | Small Study, see Notes 1 & 2 below |    |    |    |    |
| Indigenous Languages of Victoria              |       |          |    |    | No enrolments in 2007              |    |    |    |    |
| Indonesian (FL)                               | 35.64 | 5.6      | 26 | 31 | 36                                 | 40 | 44 | 47 | 50 |
| Indonesian (SL)                               | 37.12 | 7.0      | 26 | 32 | 38                                 | 43 | 46 | 49 | 51 |
| Italian                                       | 36.50 | 6.8      | 26 | 32 | 37                                 | 42 | 46 | 48 | 50 |
| Japanese (FL)                                 | 27.18 | 7.3      | 16 | 21 | 25                                 | 31 | 36 | 42 | 50 |
| Japanese (SL)                                 | 39.01 | 6.8      | 29 | 35 | 40                                 | 44 | 48 | 51 | 53 |
| Khmer   |       |          |    |    | Small Study, see Notes 1 & 2 below |    |    |    |    |
| Korean (FL)                                   | 34.76 | 7.0      | 24 | 30 | 35                                 | 40 | 44 | 47 | 50 |
| Korean (SL)                                   | 37.03 | 6.9      | 23 | 29 | 34                                 | 39 | 44 | 48 | 51 |
| Latin   | 45.00 | 6.1      | 34 | 41 | 46                                 | 50 | 52 | 54 | 55 |
| Macedonian                                    | 29.66 | 6.5      | 21 | 25 | 29                                 | 33 | 37 | 42 | 50 |
| Maltese                                       |       |          |    |    | Small Study, see Notes 1 & 2 below |    |    |    |    |
| Persian                                       | 29.71 | 4.7      | 23 | 26 | 30                                 | 33 | 37 | 42 | 50 |

| 2007 Study                                  | Mean  | St. Dev. | 20 | 25                                 | 30 | 35 | 40 | 45 | 50 |
|---|-------|----------|----|------------------------------------|----|----|----|----|----|
| Polish                                      | 33.46 | 6.1      | 23 | 29                                 | 35 | 40 | 44 | 48 | 50 |
| Portuguese                                  | 33.76 | 6.6      | 17 | 25                                 | 33 | 40 | 45 | 49 | 50 |
| Punjabi                                     | 35.44 | 4.7      | 25 | 31                                 | 35 | 40 | 43 | 47 | 50 |
| Romanian                                    |       |          |    | Small Study, see Notes 1 & 2 below |    |    |    |    |    |
| Russian                                     | 35.58 | 5.6      | 28 | 32                                 | 36 | 39 | 42 | 46 | 50 |
| Serbian                                     | 30.75 | 6.9      | 19 | 26                                 | 32 | 38 | 43 | 47 | 50 |
| Sinhala                                     | 36.38 | 5.4      | 25 | 30                                 | 34 | 38 | 42 | 46 | 50 |
| Spanish                                     | 32.34 | 8.2      | 19 | 26                                 | 33 | 39 | 44 | 48 | 50 |
| Swedish                                     |       |          |    | Small Study, see Notes 1 & 2 below |    |    |    |    |    |
| Tamil                                       |       |          |    | Small Study, see Notes 1 & 2 below |    |    |    |    |    |
| Turkish                                     | 28.61 | 6.8      | 20 | 24                                 | 29 | 34 | 39 | 44 | 50 |
| Ukrainian                                   |       |          |    | Small Study, see Notes 1 & 2 below |    |    |    |    |    |
| Vietnamese                                  | 34.24 | 6.9      | 23 | 29                                 | 35 | 40 | 44 | 47 | 50 |
| Yiddish                                     |       |          |    | Small Study, see Notes 1 & 2 below |    |    |    |    |    |
| <b>Mathematics:</b>                         |       |          |    |                                    |    |    |    |    |    |
| Further Mathematics                         | 27.77 | 6.8      | 18 | 23                                 | 28 | 33 | 38 | 44 | 50 |
| Mathematical Methods                        | 35.73 | 7.1      | 25 | 31                                 | 37 | 41 | 45 | 48 | 50 |
| Mathematical Methods (CAS)                  | 35.84 | 6.7      | 26 | 32                                 | 37 | 42 | 46 | 48 | 50 |
| Specialist Mathematics                      | 39.23 | 7.5      | 27 | 34                                 | 40 | 45 | 49 | 52 | 54 |
| Media                                       | 26.50 | 7.1      | 16 | 20                                 | 26 | 31 | 37 | 43 | 50 |
| <b>Music:</b>                               |       |          |    |                                    |    |    |    |    |    |
| Music Performance: Group                    | 27.44 | 6.8      | 17 | 22                                 | 28 | 33 | 39 | 45 | 50 |
| Music Performance: Solo                     | 31.13 | 6.7      | 21 | 26                                 | 31 | 36 | 41 | 46 | 50 |
| Music Styles                                | 33.18 | 6.9      | 22 | 28                                 | 33 | 38 | 42 | 47 | 50 |
| Outdoor and Environmental Studies           | 24.67 | 6.9      | 14 | 19                                 | 24 | 29 | 36 | 42 | 50 |
| Philosophy                                  | 30.27 | 7.4      | 19 | 24                                 | 30 | 36 | 41 | 46 | 50 |
| Physical Education                          | 27.59 | 7.0      | 17 | 22                                 | 27 | 32 | 38 | 44 | 50 |
| Physics                                     | 32.88 | 7.4      | 21 | 27                                 | 33 | 38 | 43 | 47 | 50 |
| Psychology                                  | 28.35 | 7.1      | 17 | 22                                 | 28 | 33 | 39 | 45 | 50 |
| Religion and Society                        | 29.64 | 6.8      | 21 | 25                                 | 30 | 35 | 40 | 45 | 50 |
| Sociology                                   | 25.35 | 7.6      | 14 | 19                                 | 24 | 30 | 37 | 44 | 50 |
| Studio Arts                                 | 25.77 | 7.1      | 15 | 20                                 | 25 | 30 | 36 | 43 | 50 |
| Systems Engineering                         | 23.26 | 6.4      | 14 | 18                                 | 22 | 27 | 33 | 40 | 50 |
| Texts and Traditions                        | 31.53 | 6.6      | 22 | 27                                 | 31 | 36 | 41 | 45 | 50 |
| Theatre Studies                             | 29.98 | 7.1      | 19 | 24                                 | 30 | 35 | 40 | 45 | 50 |
| Visual Communication and Design             | 26.49 | 7.1      | 16 | 21                                 | 26 | 31 | 37 | 44 | 50 |
| <b>VCE VET:</b>                             |       |          |    |                                    |    |    |    |    |    |
| VCE VET Business (Office Admin.)            | 24.05 | 6.5      | 15 | 19                                 | 23 | 28 | 34 | 40 | 50 |
| VCE VET Community Services (Community Work) | 23.60 | 6.5      | 14 | 18                                 | 22 | 27 | 33 | 40 | 50 |
| VCE VET Dance                               | 27.72 | 7.9      | 19 | 22                                 | 25 | 31 | 37 | 44 | 50 |
| VCE VET Electrotechnology                   | 24.01 | 6.3      | 14 | 18                                 | 23 | 29 | 35 | 42 | 50 |
| VCE VET Engineering Studies – Cert II       | 22.72 | 5.7      | 15 | 18                                 | 22 | 26 | 31 | 38 | 50 |
| VCE VET Engineering Studies – Cert III      |       |          |    | Small Study, see Note 1 below      |    |    |    |    |    |
| VCE VET Equine Industry                     | 27.11 | 5.9      | 18 | 23                                 | 27 | 32 | 37 | 43 | 50 |
| VCE VET Financial Services                  |       |          |    | Small Study, see Note 1 below      |    |    |    |    |    |
| VCE VET Furnishing                          | 23.33 | 5.9      | 15 | 18                                 | 22 | 26 | 31 | 37 | 50 |
| VCE VET Hospitality – Commercial Cookery    | 25.00 | 6.3      | 16 | 20                                 | 25 | 30 | 35 | 42 | 50 |
| VCE VET Hospitality – Food and Beverage     | 25.19 | 6.4      | 16 | 20                                 | 24 | 29 | 35 | 41 | 50 |
| VCE VET Information Technology              | 24.88 | 6.2      | 16 | 20                                 | 24 | 29 | 35 | 42 | 50 |
| VCE VET Laboratory Skills                   |       |          |    | Small Study, see Note 1 below      |    |    |    |    |    |
| VCE VET Multimedia                          | 26.64 | 6.6      | 17 | 21                                 | 26 | 31 | 37 | 43 | 50 |
| VCE VET Music                               | 25.73 | 6.4      | 15 | 19                                 | 24 | 29 | 34 | 41 | 50 |
| VCE VET Music Technical Production          | 26.65 | 6.2      | 18 | 22                                 | 26 | 31 | 36 | 42 | 50 |
| VCE VET Sport and Recreation                | 23.69 | 6.5      | 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 2004, 2005 and 2006. The following table gives the ENTER Subject scores for small LOTEs in 2007.

| Small LOTE Study Score   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2007 ENTER Subject Score | 1.00  | 2.00  | 3.13  | 4.32  | 5.53  | 6.76  | 8.01  | 9.27  | 10.53 | 11.80 |
| Small LOTE Study Score   | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    |
| 2007 ENTER Subject Score | 13.06 | 14.33 | 15.59 | 16.85 | 18.10 | 19.35 | 20.58 | 21.81 | 23.02 | 24.22 |
| Small LOTE Study Score   | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    |
| 2007 ENTER Subject Score | 25.41 | 26.58 | 27.74 | 28.88 | 30.01 | 31.12 | 32.21 | 33.28 | 34.33 | 35.37 |
| Small LOTE Study Score   | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    |
| 2007 ENTER Subject Score | 36.39 | 37.38 | 38.35 | 39.31 | 40.24 | 41.15 | 42.04 | 42.90 | 43.74 | 44.56 |
| Small LOTE Study Score   | 41    | 42    | 43    | 44    | 45    | 46    | 47    | 48    | 49    | 50    |
| 2007 ENTER Subject Score | 45.35 | 46.12 | 46.85 | 47.56 | 48.24 | 48.89 | 49.49 | 50.04 | 50.52 | 50.74 |

## 2007 Scaled Aggregate Table

Based on the 2007 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 | 93.4                               |
| 45.00 | 99.3                               |
| 50.00 | 105.2                              |
| 55.00 | 111.0                              |
| 60.00 | 117.0                              |
| 62.00 | 119.5                              |
| 64.00 | 122.1                              |
| 65.00 | 123.5                              |
| 66.00 | 124.7                              |
| 68.00 | 127.3                              |
| 70.00 | 129.8                              |
| 72.00 | 132.6                              |
| 74.00 | 135.4                              |
| 75.00 | 136.8                              |
| 76.00 | 138.3                              |
| 78.00 | 141.1                              |
| 80.00 | 144.1                              |
| 82.00 | 147.2                              |
| 84.00 | 150.5                              |
| 85.00 | 152.3                              |
| 86.00 | 154.1                              |
| 88.00 | 157.6                              |
| 90.00 | 161.6                              |
| 91.00 | 163.6                              |
| 92.00 | 165.9                              |
| 93.00 | 168.4                              |
| 94.00 | 171.2                              |
| 95.00 | 174.3                              |
| 96.00 | 177.7                              |
| 97.00 | 181.8                              |
| 97.50 | 184.1                              |
| 98.00 | 186.8                              |
| 98.50 | 189.8                              |
| 99.00 | 193.8                              |
| 99.25 | 196.2                              |
| 99.50 | 199.6                              |
| 99.60 | 201.2                              |
| 99.70 | 203.0                              |
| 99.80 | 205.0                              |
| 99.90 | 208.2                              |