

Table A3 Descriptive statistics and selected percentiles for HSC marks and scaled marks by course

- Notes: (i) The **Number** column shows the number of students who completed the course in 2019.
(ii) The **P₉₉, P₉₀, P₇₅, P₅₀, P₂₅** columns refer to the 99th, 90th, 75th, 50th and 25th percentiles respectively.
(iii) The table excludes courses with less than 10 students completing the course in the current year, or if the students completing the course in the current year are undertaking less than 25 other ATAR courses in the same year. No percentile data are given for courses with less than 40 students.
(iv) This table should not be used as a simple HSC to scaled mark conversion table. For each HSC mark there can be a range of raw marks and therefore a range of scaled marks.

Course	Number	Type of mark	Mean	SD	Max. mark	P ₉₉	P ₉₀	P ₇₅	P ₅₀	P ₂₅
Aboriginal Studies	699	HSC	34.5	8.0	49.0	48.5	45.0	41.0	34.0	29.5
		scaled	14.4	12.5	44.3	43.3	35.3	23.3	9.8	4.2
Agriculture	1,579	HSC	36.2	6.6	49.0	48.0	44.5	41.0	36.5	32.0
		scaled	18.9	11.3	45.7	43.5	35.9	27.2	17.4	9.9
Ancient History	7,233	HSC	36.5	7.0	49.5	47.5	44.5	41.5	37.5	32.5
		scaled	23.9	11.0	49.8	45.3	38.5	32.3	24.3	15.5
Biology	18,667	HSC	36.2	6.2	48.5	46.5	44.0	41.0	36.5	32.0
		scaled	25.9	9.9	49.7	45.2	39.0	33.5	26.2	18.5
Business Studies	17,586	HSC	36.3	6.7	49.5	47.5	44.5	41.5	37.0	32.0
		scaled	24.0	10.9	49.3	44.5	38.7	32.8	24.0	15.3
Chemistry	10,277	HSC	37.9	6.7	50.0	48.0	46.0	43.5	39.0	33.0
		scaled	31.4	9.9	50.0	46.7	43.1	39.3	33.1	24.5
Community & Family Studies	8,406	HSC	37.2	5.4	49.5	47.0	43.5	41.5	38.0	34.0
		scaled	18.8	10.5	44.2	41.0	33.8	27.0	18.2	10.1
Dance	969	HSC	39.5	5.2	50.0	49.0	45.5	43.5	40.0	36.5
		scaled	23.4	10.8	47.4	44.6	38.0	32.1	23.3	15.0
Design & Technology	3,221	HSC	39.2	5.3	49.5	48.5	45.5	43.0	39.5	36.0
		scaled	22.4	10.4	47.3	44.5	37.0	30.4	21.8	14.3
Drama	4,080	HSC	39.3	4.7	50.0	48.5	46.0	43.0	39.0	36.0
		scaled	23.6	11.0	49.9	46.8	39.0	32.0	22.9	15.1
Earth & Environmental Science	2,033	HSC	36.5	6.0	48.5	46.5	43.5	40.5	37.5	33.0
		scaled	23.0	10.6	48.3	44.4	37.1	31.1	23.2	14.7
Economics	5,100	HSC	38.9	5.9	50.0	48.0	45.5	43.5	40.0	34.5
		scaled	31.8	9.5	50.0	46.4	42.8	39.2	33.6	25.8
Engineering Studies	2,257	HSC	37.4	5.2	48.5	47.5	44.5	41.0	37.5	34.0
		scaled	25.8	9.7	48.8	45.6	38.8	33.2	25.8	18.9
English Studies Exam	993	HSC	25.7	7.8	41.0	37.0	32.5	30.5	27.5	25.0
		scaled	7.7	6.0	33.4	24.4	15.3	11.7	6.5	2.7
English Standard	30,228	HSC	34.8	4.4	49.5	44.5	40.0	38.0	35.0	32.0
		scaled	20.1	8.4	50.0	39.9	31.2	25.8	19.8	14.1
English Advanced	25,251	HSC	40.6	3.9	49.5	47.5	45.5	43.5	41.0	38.0
		scaled	31.9	8.2	49.8	46.4	41.8	38.0	32.9	26.9
English EAL/D	2,138	HSC	35.6	5.8	49.5	46.5	42.5	39.5	36.0	32.0
		scaled	22.2	11.0	48.7	45.4	37.6	30.4	22.0	13.4
English Extension 1	3,490	HSC	42.1	4.4	50.0	49.0	47.0	45.0	43.0	40.0
		scaled	36.4	6.4	50.0	47.5	44.1	41.1	37.1	32.5
English Extension 2	1,326	HSC	39.8	5.7	50.0	49.0	47.0	45.0	40.0	35.0
		scaled	36.2	6.9	50.0	48.8	45.1	41.7	36.5	31.3
Food Technology	3,068	HSC	37.1	5.7	49.5	48.0	44.5	41.0	37.5	33.5
		scaled	19.9	11.3	46.9	43.8	36.1	28.5	19.1	10.4

Table A3 Descriptive statistics and selected percentiles for HSC marks and scaled marks by course

Course	Number	Type of mark	Mean	SD	Max. mark	P ₉₉	P ₉₀	P ₇₅	P ₅₀	P ₂₅
Geography	4,188	HSC	37.6	6.7	49.0	47.0	45.0	42.5	39.0	34.0
		scaled	25.2	11.1	50.0	45.5	39.4	34.0	26.0	16.9
Industrial Technology	5,702	HSC	34.7	6.4	50.0	47.5	43.0	39.0	34.5	30.5
		scaled	17.2	9.9	41.2	38.8	31.6	24.6	16.2	9.1
Information Processes & Technology	2,098	HSC	36.5	7.0	49.0	48.0	45.0	41.5	37.5	32.5
		scaled	21.6	11.1	48.1	44.8	36.9	30.0	21.6	12.7
Investigating Science	2,770	HSC	34.6	6.8	48.0	45.5	42.5	39.5	35.5	31.0
		scaled	18.6	10.2	43.6	39.2	32.7	26.4	18.6	10.1
Legal Studies	10,516	HSC	37.0	7.2	50.0	48.0	45.5	42.5	38.0	32.5
		scaled	25.2	10.9	50.0	45.5	39.3	34.0	25.9	16.8
Mathematics Standard 1 Exam	1,139	HSC	35.0	5.8	48.5	46.0	41.5	38.5	35.5	31.5
		scaled	11.7	8.8	33.4	32.2	25.4	17.4	10.0	4.1
Mathematics Standard 2	29,656	HSC	35.5	5.9	50.0	47.0	43.0	39.5	36.0	31.5
		scaled	21.8	10.1	45.8	41.7	35.8	29.9	21.5	13.7
Mathematics	17,311	HSC	39.2	6.7	50.0	49.0	47.0	44.5	39.5	35.5
		scaled	31.1	9.6	50.0	47.2	42.6	38.3	32.3	25.2
Mathematics Extension 1	8,830	HSC	40.3	7.9	50.0	49.5	48.0	46.0	43.0	36.0
		scaled	39.1	7.0	50.0	48.6	46.2	44.1	40.7	35.9
Mathematics Extension 2	3,134	HSC	41.0	6.7	50.0	49.0	47.5	46.0	42.5	38.0
		scaled	42.9	4.5	50.0	49.0	47.3	45.9	43.7	41.1
Modern History	11,329	HSC	36.9	6.8	49.5	47.5	44.5	42.0	38.0	33.0
		scaled	25.6	11.0	50.0	46.0	39.8	34.3	26.3	17.2
History Extension	1,825	HSC	39.4	6.3	50.0	49.0	47.0	45.0	40.0	35.0
		scaled	33.7	6.9	49.9	46.4	42.0	38.7	34.3	29.1
Music 1	4,676	HSC	41.1	4.6	50.0	48.5	46.5	44.5	42.0	38.5
		scaled	21.2	10.7	46.6	43.0	36.1	29.3	20.9	12.7
Music 2	730	HSC	44.0	3.0	50.0	49.5	48.0	46.5	44.0	42.0
		scaled	33.3	8.5	50.0	48.1	44.5	40.2	33.9	26.8
Music Extension	417	HSC	45.5	4.3	50.0	50.0	50.0	49.0	47.0	43.0
		scaled	35.3	9.4	50.0	50.0	48.2	43.9	35.3	28.6
PDH&PE	15,545	HSC	36.5	5.7	49.0	46.5	44.0	41.0	37.0	32.5
		scaled	23.0	10.3	48.1	43.4	36.9	31.0	23.1	14.8
Physics	8,404	HSC	36.8	6.7	49.5	47.5	45.5	42.0	37.5	32.5
		scaled	30.5	9.7	50.0	46.5	42.3	38.2	31.8	23.8
Science Extension	668	HSC	36.8	4.9	48.0	47.0	43.0	40.0	37.0	33.0
		scaled	33.2	7.1	50.0	47.8	42.4	38.4	33.8	28.4
Society & Culture	4,769	HSC	38.6	5.5	49.5	48.0	45.5	42.5	39.0	35.5
		scaled	23.1	10.8	48.6	45.5	38.1	31.6	22.6	14.7
Software Design & Development	1,796	HSC	37.8	6.7	49.0	48.0	45.5	43.0	38.5	33.5
		scaled	25.7	10.7	49.8	46.1	39.3	34.2	26.4	17.4
Studies of Religion I	8,475	HSC	38.6	5.0	50.0	48.0	45.0	42.0	39.0	35.0
		scaled	27.9	8.9	48.3	45.0	39.3	34.8	28.4	21.5
Studies of Religion II	6,046	HSC	38.5	5.1	49.5	47.0	44.5	42.0	39.0	35.5
		scaled	27.6	9.9	50.0	45.8	40.1	35.2	28.6	20.8

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Course	Number	Type of mark	Mean	SD	Max. mark	P ₉₉	P ₉₀	P ₇₅	P ₅₀	P ₂₅
Textiles & Design	1,274	HSC	39.5	5.6	50.0	49.0	46.0	43.5	40.5	36.5
		scaled	22.9	11.2	48.6	46.0	38.0	31.8	23.0	14.3
Visual Arts	8,526	HSC	40.6	4.3	50.0	48.0	45.5	44.0	41.0	38.0
		scaled	22.3	11.1	49.2	45.7	38.0	30.9	21.7	13.3
Arabic Continuers	322	HSC	40.2	5.0	48.5	47.5	45.5	43.5	41.0	38.0
		scaled	16.5	11.5	44.5	41.8	34.5	24.2	14.6	6.8
Arabic Extension	113	HSC	39.1	5.2	48.0	48.0	46.0	44.0	39.0	34.0
		scaled	20.1	9.0	41.7	40.6	31.7	26.3	19.9	12.2
Armenian Continuers	22	HSC	41.1	2.8	46.5					
		scaled	26.8	11.7	50.0					
Chinese Beginners	38	HSC	36.9	7.8	48.5					
		scaled	20.9	14.8	48.3					
Chinese Continuers	178	HSC	42.7	4.8	49.5	49.0	48.0	46.5	43.0	40.0
		scaled	32.6	9.7	50.0	48.0	44.7	40.4	32.2	26.7
Chinese Extension	27	HSC	44.9	3.9	49.0					
		scaled	38.1	7.9	50.0					
Chinese & Literature	576	HSC	41.5	3.4	48.0	47.0	45.5	44.0	41.5	39.5
		scaled	24.8	10.8	50.0	48.0	39.4	33.3	24.5	16.6
Chinese in Context	107	HSC	44.3	2.8	49.0	48.5	47.5	46.5	44.5	42.5
		scaled	30.4	9.8	50.0	47.8	43.4	38.2	31.0	23.1
Classical Greek Continuers	19	HSC	44.8	3.2	49.5					
		scaled	39.4	7.7	50.0					
Classical Greek Extension	13	HSC	45.5	3.7	48.0					
		scaled	39.6	10.4	50.0					
Classical Hebrew Continuers	15	HSC	44.7	4.5	48.5					
		scaled	32.8	11.3	50.0					
Classical Hebrew Extension	11	HSC	45.8	3.7	50.0					
		scaled	36.3	8.6	50.0					
Croatian Continuers	13	HSC	40.1	4.0	47.5					
		scaled	24.4	11.2	50.0					
French Beginners	479	HSC	37.7	8.5	50.0	49.5	47.5	44.5	39.0	32.5
		scaled	23.7	11.2	47.9	46.6	38.9	32.7	24.3	14.8
French Continuers	648	HSC	41.3	5.2	49.5	49.0	47.5	45.5	42.5	38.0
		scaled	34.6	8.1	50.0	48.2	44.7	40.8	35.8	29.6
French Extension	177	HSC	40.6	5.3	48.0	48.0	46.0	45.0	42.0	37.0
		scaled	40.1	5.3	50.0	50.0	46.0	43.7	41.0	36.9
German Beginners	95	HSC	39.0	6.0	50.0	50.0	47.0	44.0	38.5	34.5
		scaled	26.0	10.6	50.0	50.0	39.9	33.0	25.5	16.8
German Continuers	209	HSC	40.7	4.7	49.0	48.5	46.5	44.5	41.0	37.5
		scaled	33.8	8.7	50.0	48.6	43.9	40.2	35.0	28.4
German Extension	47	HSC	43.3	3.4	50.0	50.0	47.0	46.0	43.0	41.0
		scaled	39.8	4.9	50.0	50.0	45.5	43.5	39.8	36.3
Hindi Continuers	18	HSC	43.9	3.1	47.5					
		scaled	30.5	10.5	50.0					
Indonesian Beginners	29	HSC	39.3	8.4	48.5					
		scaled	22.8	12.7	46.5					

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Course	Number	Type of mark	Mean	SD	Max. mark	P ₉₉	P ₉₀	P ₇₅	P ₅₀	P ₂₅
Indonesian Continuers	72	HSC	39.6	5.3	48.5	48.5	46.0	43.5	40.5	35.5
		scaled	30.4	9.6	50.0	50.0	42.0	37.1	30.8	22.9
Indonesian Extension	13	HSC	42.2	3.6	48.0					
		scaled	34.5	6.6	49.2					
Italian Beginners	274	HSC	37.0	6.5	49.0	48.5	45.5	41.5	37.5	33.0
		scaled	25.6	10.8	49.5	46.8	40.6	33.7	25.4	17.6
Italian Continuers	265	HSC	39.6	7.8	49.0	49.0	46.5	44.5	41.0	36.5
		scaled	30.4	10.1	50.0	48.8	41.9	37.7	31.2	24.1
Italian Extension	52	HSC	43.9	3.0	48.0	48.0	47.0	46.0	45.0	42.0
		scaled	38.3	5.0	50.0	50.0	43.9	41.5	38.9	34.8
Japanese Beginners	677	HSC	36.7	8.4	49.0	48.5	45.5	43.0	38.5	32.5
		scaled	23.7	10.9	47.9	45.1	37.6	32.6	24.4	16.1
Japanese Continuers	617	HSC	40.5	5.9	49.5	49.0	47.5	45.0	41.5	36.5
		scaled	31.2	10.1	50.0	48.2	44.1	39.3	32.5	24.1
Japanese Extension	138	HSC	42.2	5.2	50.0	49.0	48.0	47.0	43.0	38.0
		scaled	38.4	5.1	50.0	48.2	44.4	42.7	38.7	34.9
Japanese & Literature	14	HSC	42.4	3.5	48.5					
		scaled	24.3	9.4	44.0					
Japanese in Context	27	HSC	41.6	2.3	46.0					
		scaled	28.3	7.6	44.5					
Khmer Continuers	10	HSC	43.4	2.0	46.5					
		scaled	26.2	13.2	50.0					
Korean Beginners	116	HSC	39.9	5.6	49.0	48.0	47.0	44.5	41.0	36.0
		scaled	27.1	9.7	46.9	43.4	39.9	34.2	27.6	20.3
Korean & Literature	22	HSC	43.0	2.8	47.5					
		scaled	22.7	12.7	48.2					
Korean in Context	47	HSC	44.6	3.6	49.5	49.5	48.5	47.5	45.5	42.0
		scaled	28.8	9.8	50.0	50.0	41.9	36.5	28.6	21.0
Latin Continuers	131	HSC	44.2	3.5	49.5	49.5	48.0	46.5	45.0	42.5
		scaled	40.8	7.0	50.0	49.7	48.2	45.9	42.8	37.2
Latin Extension	83	HSC	46.0	2.8	50.0	50.0	49.0	48.0	47.0	45.0
		scaled	42.3	6.3	50.0	50.0	48.9	47.3	44.3	38.9
Macedonian Continuers	12	HSC	40.0	4.6	47.5					
		scaled	24.2	9.7	43.8					
Modern Greek Beginners	87	HSC	42.1	5.3	49.0	49.0	47.5	45.5	43.5	39.5
		scaled	27.7	10.6	46.8	46.8	41.2	35.5	28.8	19.6
Modern Greek Continuers	80	HSC	43.6	4.2	49.5	49.5	48.5	46.5	44.5	41.0
		scaled	24.7	9.5	45.0	45.0	37.9	30.2	24.3	17.6
Modern Greek Extension	42	HSC	37.9	6.6	50.0	50.0	46.0	44.0	37.0	33.0
		scaled	28.2	7.0	44.2	44.2	36.8	34.0	27.5	22.9
Modern Hebrew Continuers	39	HSC	44.7	3.6	49.0					
		scaled	35.6	8.3	50.0					
Persian Continuers	30	HSC	40.7	3.4	48.5					
		scaled	19.5	8.8	38.8					
Polish Continuers	17	HSC	46.0	2.5	49.5					
		scaled	26.8	12.7	47.4					

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Course	Number	Type of mark	Mean	SD	Max. mark	P ₉₉	P ₉₀	P ₇₅	P ₅₀	P ₂₅
Portuguese Continuers	21	HSC	43.0	3.0	47.0					
		scaled	29.8	9.8	44.3					
Punjabi Continuers	15	HSC	43.5	2.6	48.0					
		scaled	26.5	9.0	46.6					
Russian Continuers	29	HSC	44.1	2.7	47.0					
		scaled	30.1	9.1	44.4					
Serbian Continuers	25	HSC	44.2	2.7	48.5					
		scaled	24.8	11.4	48.0					
Spanish Beginners	259	HSC	37.1	7.1	49.5	48.5	46.0	43.0	37.5	32.5
		scaled	25.2	12.1	50.0	46.2	41.8	35.5	25.4	16.5
Spanish Continuers	172	HSC	39.0	4.6	47.5	47.0	44.5	43.0	39.5	36.0
		scaled	26.0	10.7	49.8	48.4	40.3	35.0	25.5	18.6
Spanish Extension	48	HSC	41.5	3.7	47.0	47.0	46.0	44.0	42.0	39.0
		scaled	33.0	7.2	47.8	47.8	42.0	37.6	32.9	27.4
Turkish Continuers	32	HSC	42.6	4.6	48.5					
		scaled	22.9	11.2	46.9					
Vietnamese Continuers	175	HSC	40.7	4.2	48.0	48.0	44.5	43.5	41.5	39.0
		scaled	19.3	10.8	45.6	45.2	33.5	27.2	19.3	11.0
Automotive Exam	259	HSC	34.3	5.7	47.0	46.0	42.0	38.5	34.0	31.0
		scaled	14.3	9.0	36.3	35.5	28.3	20.9	12.5	7.2
Business Services Exam	1,119	HSC	38.0	5.1	48.5	47.0	43.5	41.5	38.5	35.5
		scaled	18.9	10.4	44.1	42.1	33.4	26.0	18.2	10.7
Construction Exam	1,614	HSC	36.6	4.6	48.0	45.5	42.0	40.0	37.0	33.5
		scaled	16.0	9.6	39.5	36.8	29.4	23.4	15.4	7.6
Electrotechnology Exam	239	HSC	35.1	4.8	47.0	46.0	41.5	38.0	35.5	31.0
		scaled	17.1	9.4	39.9	39.2	31.0	22.5	16.5	8.5
Entertainment Industry Exam	735	HSC	38.4	4.9	49.0	47.0	44.5	42.0	38.5	35.5
		scaled	20.6	9.2	43.0	40.8	33.2	27.2	20.2	13.9
Financial Services Exam	62	HSC	35.9	5.8	45.0	45.0	42.0	40.5	35.5	33.0
		scaled	22.7	9.7	45.7	45.7	35.9	29.7	21.2	15.9
Hospitality Exam	4,518	HSC	36.4	5.8	48.5	46.5	43.0	40.5	37.0	33.0
		scaled	19.1	10.1	43.9	41.2	32.6	26.8	18.7	10.8
Human Services Exam	735	HSC	34.3	4.4	46.5	44.5	39.5	37.0	34.5	31.5
		scaled	19.5	9.5	42.4	40.8	33.2	26.4	18.0	11.8
Information & Digital Technology Exam	483	HSC	37.4	4.0	48.5	45.0	42.5	40.0	37.5	35.5
		scaled	17.9	9.0	39.9	36.5	30.9	25.2	17.3	10.6
Metal & Engineering Exam	276	HSC	32.0	6.1	45.0	43.0	38.5	36.0	32.5	28.5
		scaled	15.7	9.5	38.9	37.3	29.0	22.6	14.4	7.2
Primary Industries Exam	567	HSC	37.3	4.1	48.0	46.5	43.0	40.0	37.5	34.5
		scaled	16.9	9.7	40.6	39.4	31.4	24.0	16.0	8.5
Retail Services Exam	841	HSC	34.5	4.7	46.0	44.0	40.0	37.5	35.0	31.5
		scaled	17.4	10.0	41.8	40.2	32.2	23.9	16.1	9.1
Tourism, Travel & Events Exam	188	HSC	36.3	3.7	47.0	45.5	42.0	38.5	36.5	34.0
		scaled	21.7	9.0	43.4	41.9	35.7	27.9	21.2	14.4