

Optometry Admission Test (OAT)

Validity Study

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Introduction

Validity is a critical consideration for any testing program. Validity refers to the degree to which logic and evidence support the use of test scores for making critical decisions (e.g., pass/fail, admission, placement, grouping) concerning examinees.

The Optometry Admission Test (OAT) Validity Study (2022-2024) reports the relationship among OAT scores, pre-optometry grade point averages (GPAs), and the academic and clinical achievements of a sample of students during their first and second year in United States optometry schools. Correlation coefficients were used to understand the relationship between admission selection criteria (such as GPAs and OAT scores) and success in students' first two years of optometry education.

The OAT Program recognizes the importance placed upon the validity of the OAT. The value of a report of this nature is enhanced when participation is representative of the population under study. In contrast, the value is diminished by low participation and low representativeness. In past reports, participating schools were identified by name. Beginning with the 2009 report, each school is identified by a code number that is only revealed to the individual school. It is hoped that this measure of anonymity will increase participation. The goal is always 100% participation.

Data

A total of 7 United States optometry schools participated in this study. This represents a decrease of four schools, as compared to the number (11) obtained in the prior report (2020 to 2022).

This report involves first- and second-year data on the same group of students. When viewing the results presented, the number of students listed may not correspond with the number actually enrolled. This is because some students' OAT scores were not available. Student data were included in the analyses only when OAT scores were also provided. Additionally, due to curriculum differences, some schools could not provide information in every area requested.

Data collection occurred during students' third year in optometry school, when data associated with first and second year school performance were complete. Thus, the following applies:

- Student optometry school GPA data reflect the 2022-2023 and 2023-2024 school years.
- Student OAT data reflect test administrations occurring prior to the 2022-2023 school year).

Predictor variables in place across schools included the following:

- OAT scores (i.e., the scores achieved by students prior to admission to optometry school)
- Undergraduate GPA
- Undergraduate Math and Science GPA

Criterion variables included overall optometry GPAs in Year 1 and Year 2, as well as optometry grades in seven subject areas referred to as Tracks. The Tracks were as follows:

Track I Optics: geometric, visual, physical, ophthalmic.

Track II Biomedical Sciences: human anatomy, histology, neuroanatomy, human physiology, microbiology, general pathology, systemic pathology, general pharmacology, general biochemistry.

Track III Vision Science: ocular anatomy, ocular biochemistry, psychophysics, perception, color vision, vegetative physiology of the eye, normal binocular vision, ocular motility.

Track IV Ocular Health Science: ocular disease, ocular pharmacology.

Track V Clinical Science: clinic methods, environmental vision, anomalies of binocular vision, contact lenses, pediatric optometry, developmental vision, sports vision, low vision, geriatric optometry, clinical management.

Track VI Clinic: all clinics.

Track VII Other: epidemiology, practice management, professional communications, ethics.

School specific predictors. Several schools provided additional predictor measures that were specific to their programs. These were correspondingly labeled Other GPA, Option 1, and Option 2. Given that these predictors are exclusive to these schools, they are reported upon in tables that present school specific results, but are omitted from tables involving analyses conducted across schools. While these predictors are useful when looking at findings within a given school, their interpretation across schools is problematic due to the differences in meanings for these measures.

Methods

In previous OAT validity study reports, large tables containing Pearson product-moment correlation coefficients (r) and squared multiple correlation coefficients (R^2 or R-Square) by school were presented to indicate the relationship between various predictors and criteria measures. Predictive information included students' pre-optometry GPAs and OAT scores. Criteria included student performance in their first two years of optometry education. As expected, results from these analyses varied from school to school given the large number of participating schools. The meta-analytic approach developed by Hunter and Schmidt (1990) was adopted in this report, to summarize the relationship and integrate findings across the participating optometry schools.

The specific meta-analytic approach adopted for this study involved two steps. The first step involved calculating the bivariate correlation between each predictor and each criterion, separately for each participating school. Then, multiple regression analyses were conducted within each school. These involved adding predictors separately into a regression, to better understand the incremental gain in validity associated with the addition of each predictor (or set of predictors). With respect to this study, this occurred in the following sequence:

Across School Predictors

1. OAT Subscale Scores (Reading Comprehension, Quantitative Reasoning, Biology, General Chemistry, Organic Chemistry, and Physics)
2. Undergraduate Math & Science GPA
3. Overall Undergraduate GPA

School Specific Predictors

1. Other GPA (if available)
2. Option 1 and Option 2 (if available)

For each school, two sets of regressions were conducted: one with first year optometry school GPA serving as the criterion, and the second with second year optometry school GPA serving as the criterion. When the necessary data were present, regressions were also conducted for each of the seven Tracks.

Having conducted these regressions, the second step involved focusing on the results obtained for the across-school-predictors, in essence using the correlational and multiple R values obtained from the regressions as input into the meta-analysis.

Since optometry schools use OAT scores to make admission decisions, applicants who were accepted into optometry schools tend to have higher OAT scores than those who were not admitted. Consequently, the range of OAT scores found in an enrolled optometry student sample is restricted relative to the OAT score range that would be found in the full population of applicants to optometry schools. Additionally, OAT scores and GPAs are not perfectly reliable. Research has shown that statistical artifacts such as range restriction and unreliability of measures can reduce the size of observed correlation coefficients. Given this, the observed relationship found within the current dataset is considered an underestimate of what would have been found had the entire pool of applicants been admitted to optometry school, and if OAT scores and GPAs had been perfectly reliable. The use of the meta-analytic approach helps address these issues by providing the option to implement statistical corrections for range restriction and the unreliability of operational measures (predictor and/or criterion). Because optometry schools must base their decisions on actual OAT scores, it would be inappropriate in this situation to correct for predictor unreliability in OAT scores. Thus, the present meta-analyses simply included corrections to address unreliability in optometry school GPAs (i.e., the performance criterion), and where possible corrections for range restriction in OAT scores (i.e., bivariate correlations but not multiple correlations). These adjustments provide a more accurate understanding of the true relationship between the OAT as an admission tool, and general performance in optometry school (if the latter had been perfectly measured).

More specifically, the corrections employed use standard formulas involving the ratio of the restricted and unrestricted standard deviation of students' scores on the predictor variables (e.g., OAT scores) and reliability coefficients associated with optometry school GPAs. The restricted standard deviation is the standard deviation found in the observed sample, while the unrestricted standard deviation is the corresponding standard deviation associated with the pool of all applicants in a given year (i.e., all OAT examinations in 2020-2021 or 2021-2022, for first and second year students, respectively). Corrected validity coefficient estimates indicate the anticipated level of association that would have been obtained if students had NOT been selected on the aforementioned predictors and if optometry school GPAs were perfectly reliable criterion measures. In accordance with meta-analytic procedures, artifact distribution information used for all range restriction corrections and unreliability corrections is presented in Tables 1a and 1b. The mean and variance for the reliability of optometry school GPAs (Table 1b) were based on reported values from five studies on the reliability of college grades (Barritt, 1966; Bendig, 1953; Etaugh et al., 1972; Millman et al., 1983; Reilly & Warech, 1993).

Table 1a: Artifact Distribution Used in the Meta-Analysis: Predictor Range Restriction

Predictor	k_U	Mean U	Variance U
Academic Average	7	0.60	0.0124
Total Science	7	0.60	0.0111
Quantitative Reasoning	7	0.77	0.0048
Reading Comprehension	7	0.94	0.0129
Biology	7	0.71	0.0093
General Chemistry	7	0.66	0.0071
Organic Chemistry	7	0.76	0.0048
Physics	7	0.68	0.0147

Note: U = ratio for range restriction; k_U = number of ratios in the distribution (number of schools);

Table 1b: Artifact Distribution Used in the Meta-Analysis: Criterion Unreliability

Optometry School Criterion	Mean Reliability	Variance Reliability
GPA: First-year classes	0.82	0.00026
GPA: Second-year classes	0.82	0.00026
Track I Grades: Optics	0.82	0.00026
Track II Biomedical Sciences	0.82	0.00026
Track III Vision Science	0.82	0.00026
Track IV Ocular Health Science	0.82	0.00026
Track V Clinical Science	0.82	0.00026
Track VI Clinic	0.82	0.00026
Track VII Other	0.82	0.00026

Results and Discussion

Part I: Bivariate Correlations between Optometry School Grades and Predictors (OAT scores, Undergraduate GPAs, and Options)

Tables 2 through 11 provide the results of the meta-analysis. The top section of Tables 2 through 10 present bivariate (i.e., two variable) correlations between optometry school grades and various individual predictors. These predictors are either OAT scores or undergraduate GPAs. OAT scores include two OAT composite scores (i.e., Total Science and Academic Average) and six individual OAT subscale scores (i.e., Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry and Physics). Undergraduate GPAs consist of math & science GPA and overall undergraduate GPA. Tables 2 and 3 present bivariate correlations between first- and second-year optometry school grades, respectively, and the aforementioned predictors. Similarly, Tables 4 through 10 present bivariate correlations between optometry school grades in seven subject areas (Tracks I through VII) and the aforementioned predictors. Table 11 summarizes the p values obtained in Tables 2 through 10. In interpreting the results, the following should be noted:

- The observed weighted mean correlation coefficient (r_{obs}) is the average of the correlation coefficients of all participating schools weighted by the sample size of each school and calculated following the meta-analytic approach introduced by Hunter & Schmidt (1990, p. 100).

- If the correlation coefficient of one school does not appear to be consistent with those of other schools, this coefficient is considered an outlier in the meta-analytic framework. Inclusion of outliers in the analysis will typically lead to a possible shift in the mean coefficient. In some cases the presence of an outlier can yield an apparent stronger relationship, whereas in other cases an outlier's presence can yield an apparent weaker relationship. This study employed the sample-adjusted meta-analytic deviance (SAMD) statistic developed by Huffcutt & Arthur (1995) to detect the presence of outliers. Corrected correlation coefficients with any identified outlier(s) present ($\rho_{\text{with outlier}}$) and with any identified outlier(s) removed (ρ) were then calculated and shared in this report.
- The corrected correlation coefficients (ρ) reported in Tables 2 through 10 show the relationships between optometry school performance and students' prior achievement as indicated by OAT scores and undergraduate GPAs. **DTS recommends focusing on ρ as the best available estimate of the relationship.** To facilitate overall interpretations, Table 11 provides a summary of ρ values obtained across Tables 2 through 10. A 95% credibility interval around each corrected correlation coefficient was constructed and reported. Credibility intervals help in understanding the generalizability of the corrected correlation coefficients. The credibility interval represents the range within which 95% of the true correlation coefficients (ρ) are expected to fall across contexts. When the lower bound of the 95% credibility interval is above zero, the predictor can be interpreted as being consistently predictive across settings.
- Some of the correlation coefficients (ρ) were not corrected for range restriction. As a result, these correlations likely underestimate the true magnitude of the relationships between the associated predictors and the outcomes. It is not strictly appropriate to compare correlation coefficients (ρ) that are corrected for range restriction to coefficients that are not corrected for range restriction, as doing so represents an "apples to oranges" comparison.
- Tables 2 through 10 contain a column indicating the standard deviation of ρ . The standard deviation of ρ is equal to the square root of the variance of ρ . Under certain circumstances, negative values can be obtained with respect to the variance of ρ , due to how these values are calculated. Hunter and Schmidt (1990) have indicated that when this occurs, the corresponding values associated with the variance of ρ should be set to zero. Within Tables 2 through 10, in situations where this circumstance has been encountered an emdash ("—") is placed in the corresponding cell within the table associated with the standard deviation of ρ , to represent this special situation. Due to the fact that the standard deviation of ρ is used to calculate the 95% credibility interval, an emdash is correspondingly placed in the 95% credibility interval column as well.

Table 2. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and First Year Optometry School Overall GPA

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
Academic Average	6	494	0.48	0.13	0.74	0.74	—	—
Total Science	5	452	0.47	0.14	0.70	0.73	—	—
Quantitative Reasoning	6	494	0.28	0.16	0.39	0.41	0.15	0.11 - 0.70
Reading Comprehension	7	556	0.23	0.12	N/A	0.30	—	—
Biology	7	556	0.36	0.10	N/A	0.53	—	—
General Chemistry	5	452	0.32	0.18	0.50	0.49	—	—
Organic Chemistry	6	494	0.37	0.12	0.51	0.55	—	—
Physics	7	556	0.36	0.12	N/A	0.54	0.06	0.42 - 0.67
Overall Undergraduate GPA*	7	556	0.41	0.07	N/A	0.45	—	—
Math and Science GPA*	7	556	0.43	0.07	N/A	0.47	—	—
Multiple Correlation (ρ corrects for unreliability in criterion only)*								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
All OAT Subscale Scores**	6	494	0.56	0.10	0.62	0.63	0.08	0.48 - 0.78
All OAT Subscale Scores**; Math/Science GPAs	6	446	0.65	0.07	N/A	0.72	0.03	0.66 - 0.77
All OAT Subscale Scores**; Math/Science & Overall GPAs	6	446	0.66	0.07	N/A	0.73	0.03	0.66 - 0.80

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 3. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and **Second Year Optometry School Overall GPA**

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
Academic Average	7	556	0.47	0.09	N/A	0.73	—	—
Total Science	7	556	0.48	0.11	N/A	0.71	0.08	0.55 - 0.87
Quantitative Reasoning	6	446	0.25	0.13	0.36	0.27	—	—
Reading Comprehension	7	556	0.22	0.07	N/A	0.26	—	—
Biology	6	460	0.37	0.12	0.54	0.55	—	—
General Chemistry	6	494	0.31	0.16	0.49	0.55	—	—
Organic Chemistry	7	556	0.38	0.13	N/A	0.53	0.11	0.32 - 0.73
Physics	7	556	0.36	0.08	N/A	0.54	—	—
Overall Undergraduate GPA*	7	556	0.40	0.11	N/A	0.44	0.06	0.37 - 0.62
Math and Science GPA*	6	446	0.40	0.10	N/A	0.44	0.04	0.36 - 0.51
Multiple Correlation (ρ corrects for unreliability in criterion only)*								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
All OAT Subscale Scores**	6	405	0.54	0.10	0.59	0.65	—	—
All OAT Subscale Scores**; Math/Science GPAs	5	295	0.61	0.10	0.68	0.74	0.05	0.65 - 0.83
All OAT Subscale Scores**; Math/Science & Overall GPAs	5	295	0.63	0.12	0.69	0.77	0.07	0.63 - 0.90

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 4. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and
Track I: Optics

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)									
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval	
Academic Average	5	343	0.47	0.14	0.73	0.75	—	—	
Total Science	5	343	0.46	0.14	0.69	0.75	—	—	
Quantitative Reasoning	6	405	0.32	0.13	N/A	0.45	0.10	0.25 - 0.65	
Reading Comprehension	6	405	0.25	0.12	N/A	0.30	0.04	0.22 - 0.38	
Biology	6	405	0.38	0.11	N/A	0.56	—	—	
General Chemistry	5	343	0.31	0.19	0.48	0.55	—	—	
Organic Chemistry	6	405	0.37	0.11	N/A	0.51	—	—	
Physics	6	405	0.30	0.12	N/A	0.46	—	—	
Overall Undergraduate GPA*	6	405	0.44	0.08	N/A	0.49	—	—	
Math and Science GPA*	5	295	0.47	0.05	N/A	0.52	—	—	
Multiple Correlation (ρ corrects for unreliability in criterion only)*									
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval	
All OAT Subscale Scores**	6	405	0.56	0.08	N/A	0.61	—	—	
All OAT Subscale Scores**; Math/Science GPAs	5	295	0.66	0.08	N/A	0.73	—	—	
All OAT Subscale Scores**; Math/Science & Overall GPAs	5	295	0.68	0.09	N/A	0.75	0.05	0.65 - 0.86	

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 5. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and
Track II: Biomedical Sciences

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
Academic Average	5	379	0.43	0.20	0.69	0.69	0.13	0.43 - 0.95
Total Science	4	317	0.45	0.18	0.67	0.72	—	—
Quantitative Reasoning	4	269	0.21	0.23	0.29	0.15	—	—
Reading Comprehension	6	405	0.21	0.18	N/A	0.25	0.15	0.05 - 0.55
Biology	6	405	0.31	0.09	N/A	0.46	—	—
General Chemistry	4	233	0.31	0.21	0.48	0.51	—	—
Organic Chemistry	6	405	0.37	0.15	N/A	0.51	0.14	0.24 - 0.79
Physics	5	379	0.39	0.20	0.58	0.61	0.07	0.47 - 0.75
Overall Undergraduate GPA*	6	405	0.38	0.07	N/A	0.42	—	—
Math and Science GPA*	5	295	0.42	0.11	N/A	0.46	0.04	0.38 - 0.54
Multiple Correlation (ρ corrects for unreliability in criterion only)*								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
All OAT Subscale Scores**	6	405	0.59	0.07	N/A	0.66	—	—
All OAT Subscale Scores**; Math/Science GPAs	5	295	0.65	0.07	N/A	0.72	—	—
All OAT Subscale Scores**; Math/Science & Overall GPAs	5	295	0.67	0.06	N/A	0.74	—	—

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 6. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and Track III: Vision Science

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
Academic Average	6	405	0.46	0.10	N/A	0.71	—	—
Total Science	5	343	0.45	0.13	0.68	0.72	—	—
Quantitative Reasoning	5	295	0.27	0.13	0.38	0.28	—	—
Reading Comprehension	6	405	0.24	0.13	N/A	0.28	0.05	0.17 - 0.39
Biology	6	405	0.34	0.10	N/A	0.50	—	—
General Chemistry	5	343	0.30	0.16	0.47	0.52	—	—
Organic Chemistry	5	343	0.37	0.14	0.51	0.56	—	—
Physics	6	405	0.34	0.15	N/A	0.52	0.15	0.23 - 0.81
Overall Undergraduate GPA*	6	405	0.36	0.10	N/A	0.40	—	—
Math and Science GPA*	5	295	0.34	0.13	N/A	0.38	0.07	0.23 - 0.53
Multiple Correlation (ρ corrects for unreliability in criterion only)*								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
All OAT Subscale Scores**	6	405	0.56	0.08	N/A	0.62	—	—
All OAT Subscale Scores**; Math/Science GPAs	5	295	0.61	0.10	N/A	0.67	0.07	0.54 - 0.80
All OAT Subscale Scores**; Math/Science & Overall GPAs	5	295	0.62	0.11	N/A	0.69	0.08	0.52 - 0.85

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 7. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and
Track IV: Ocular Health Science

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
Academic Average	5	379	0.32	0.09	N/A	0.54	—	—
Total Science	5	379	0.32	0.11	N/A	0.52	0.04	0.43 - 0.61
Quantitative Reasoning	5	379	0.15	0.12	N/A	0.21	—	—
Reading Comprehension	5	379	0.16	0.07	N/A	0.20	—	—
Biology	5	379	0.23	0.06	N/A	0.34	—	—
General Chemistry	4	317	0.19	0.17	0.30	0.38	—	—
Organic Chemistry	5	379	0.29	0.11	N/A	0.41	—	—
Physics	5	379	0.28	0.11	N/A	0.43	—	—
Overall Undergraduate GPA*	4	357	0.39	0.09	N/A	0.43	—	—
Math and Science GPA*	4	269	0.41	0.13	N/A	0.46	0.08	0.29 - 0.62
Multiple Correlation (ρ corrects for unreliability in criterion only)*								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
All OAT Subscale Scores**	5	379	0.43	0.07	N/A	0.47	—	—
All OAT Subscale Scores**; Math/Science GPAs	4	269	0.55	0.10	N/A	0.61	0.06	0.48 - 0.73
All OAT Subscale Scores**; Math/Science & Overall GPAs	4	269	0.57	0.07	N/A	0.63	0.04	0.55 - 0.70

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 8. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and
Track V: Clinical Science

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
Academic Average	4	247	0.39	0.19	0.64	0.57	—	—
Total Science	4	247	0.37	0.19	0.58	0.56	—	—
Quantitative Reasoning	6	405	0.26	0.17	N/A	0.37	0.17	0.03 - 0.70
Reading Comprehension	5	363	0.22	0.16	0.27	0.32	—	—
Biology	6	405	0.28	0.13	N/A	0.42	0.07	0.28 - 0.56
General Chemistry	4	247	0.23	0.25	0.38	0.39	0.09	0.21 - 0.57
Organic Chemistry	5	343	0.33	0.14	0.46	0.52	—	—
Physics	6	405	0.26	0.14	N/A	0.40	0.11	0.19 - 0.62
Overall Undergraduate GPA*	6	405	0.42	0.05	N/A	0.46	—	—
Math and Science GPA*	5	295	0.44	0.07	N/A	0.49	—	—
Multiple Correlation (ρ corrects for unreliability in criterion only)*								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
All OAT Subscale Scores**	6	405	0.53	0.08	N/A	0.58	—	—
All OAT Subscale Scores**; Math/Science GPAs	5	295	0.64	0.06	N/A	0.70	—	—
All OAT Subscale Scores**; Math/Science & Overall GPAs	5	295	0.67	0.08	N/A	0.74	0.03	0.67 - 0.81

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 9. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and
Track VI: Clinic

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
Academic Average	2	111	0.01	0.08	N/A	0.01	—	—
Total Science	2	111	0.09	0.02	N/A	0.15	—	—
Quantitative Reasoning	2	111	0.03	0.05	N/A	0.05	—	—
Reading Comprehension	2	111	-0.03	0.03	N/A	-0.03	—	—
Biology	2	111	-0.01	0.15	N/A	-0.01	0.09	-0.20 - 0.18
General Chemistry	2	111	-0.05	0.19	N/A	-0.08	0.23	-0.53 - 0.38
Organic Chemistry	2	111	0.15	0.07	N/A	0.21	—	—
Physics	2	111	-0.09	0.13	N/A	-0.15	—	—
Overall Undergraduate GPA*	2	111	-0.10	0.08	N/A	-0.11	—	—
Math and Science GPA*	2	111	-0.09	0.07	N/A	-0.10	—	—
Multiple Correlation (ρ corrects for unreliability in criterion only)*								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
All OAT Subscale Scores**	2	111	0.41	0.04	N/A	0.45	—	—
All OAT Subscale Scores**, Math/Science GPAs	2	111	0.43	0.03	N/A	0.47	—	—
All OAT Subscale Scores**, Math/Science & Overall GPAs	2	111	0.45	0.01	N/A	0.49	—	—

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 10. Correlations between Predictors (OAT Scores and Undergraduate GPAs) and Track VII: Other

Pearson Bivariate Correlation (ρ corrects for unreliability in criterion as well as range restriction)								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
Academic Average	4	283	0.23	0.13	N/A	0.40	0.10	0.20 - 0.60
Total Science	4	283	0.20	0.12	N/A	0.33	—	—
Quantitative Reasoning	4	283	0.15	0.10	N/A	0.22	—	—
Reading Comprehension	4	283	0.22	0.14	N/A	0.26	0.09	0.09 - 0.43
Biology	4	283	0.23	0.12	N/A	0.35	0.05	0.25 - 0.44
General Chemistry	4	283	0.00	0.06	N/A	0.00	—	—
Organic Chemistry	4	283	0.16	0.11	N/A	0.23	—	—
Physics	4	283	0.15	0.04	N/A	0.24	—	—
Overall Undergraduate GPA*	3	173	0.26	0.17	0.29	0.41	0.01	0.38 - 0.43
Math and Science GPA*	3	173	0.36	0.13	N/A	0.40	0.07	0.27 - 0.53
Multiple Correlation (ρ corrects for unreliability in criterion only)*								
Variable	k	N	r_{obs}	SD_{obs}	$\rho_{with\ outlier}$	ρ	SD_{ρ}	95% Credibility Interval
All OAT Subscale Scores**	4	283	0.39	0.14	N/A	0.43	0.11	0.21 - 0.65
All OAT Subscale Scores**, Math/Science GPAs	3	173	0.59	0.10	N/A	0.65	0.06	0.53 - 0.77
All OAT Subscale Scores**, Math/Science & Overall GPAs	3	173	0.60	0.09	N/A	0.66	0.05	0.57 - 0.75

Note. k = number of schools; r_{obs} = observed sample-size-weighted average correlation; SD_{obs} = standard deviation of observed correlations; $\rho_{with\ outlier}$ = corrected correlation coefficients with any identified outlier(s) included in the data; ρ = corrected correlation coefficient with any identified outlier(s) removed; SD_{ρ} = standard deviation of corrected correlation coefficient; * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Table 11. Summary of ρ Values Obtained

ρ Associated with Bivariate Correlations (corrects for unreliability in criterion as well as range restriction) [†]									
Variable	1 st Year GPA	2 nd Year GPA	Optics	Biomedical Sciences	Vision Science	Ocular Health Science	Clinical Science	Clinic	Other
Academic Average	0.74	0.73	0.75	0.69	0.71	0.54	0.57	0.01	0.40
Total Science	0.73	0.71	0.75	0.72	0.72	0.52	0.56	0.15	0.33
Quantitative Reasoning	0.41	0.27	0.45	0.15	0.28	0.21	0.37	0.05	0.22
Reading Comprehension	0.30	0.26	0.30	0.25	0.28	0.20	0.32	-0.03	0.26
Biology	0.53	0.55	0.56	0.46	0.50	0.34	0.42	-0.01	0.35
General Chemistry	0.49	0.55	0.55	0.51	0.52	0.38	0.39	-0.08	0.00
Organic Chemistry	0.55	0.53	0.51	0.51	0.56	0.41	0.52	0.21	0.23
Physics	0.54	0.54	0.46	0.61	0.52	0.43	0.40	-0.15	0.24
Overall Undergraduate GPA*	0.45	0.44	0.49	0.42	0.40	0.43	0.46	-0.11	0.41
Math and Science GPA*	0.47	0.44	0.52	0.46	0.38	0.46	0.49	-0.10	0.40
ρ Associated with Multiple Correlations (ρ corrects for unreliability in criterion <u>only</u>) [*]									
Variable	1 st Year GPA	2 nd Year GPA	Optics	Biomedical Sciences	Vision Science	Ocular Health Science	Clinical Science	Clinic	Other
All OAT Subscale Scores**	0.63	0.65	0.61	0.66	0.62	0.47	0.58	0.45	0.43
All OAT Subscale Scores**; Math/Science GPAs	0.72	0.74	0.73	0.72	0.67	0.61	0.70	0.47	0.65
All OAT Subscale Scores**; Math/Science & Overall GPAs	0.73	0.77	0.75	0.74	0.69	0.63	0.74	0.49	0.66

[†]Top three obtained ρ values are highlighted. * Not corrected for range restriction; ** OAT Subscale Scores include the following: Quantitative Reasoning, Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Physics.

Key findings are summarized below.

- Taken as a whole, Tables 2 through 11 provide strong empirical evidence that OAT scores and undergraduate GPAs are strongly related to the various student performance criteria in optometry school.
- **First-Year Optometry School GPA.** The OAT Academic Average score ($\rho=0.74$), OAT Total Science score ($\rho=0.73$), Organic Chemistry score ($\rho=0.55$), Physics score ($\rho=0.54$), and Biology score ($\rho=0.53$) appear to have the highest level of association with overall GPAs in the first-year of optometry school (Table 2). Between the two pre-optometry GPA predictors, math and science GPA demonstrated the stronger relationship ($\rho=0.47$) with first-year optometry school GPA.
- **Second-Year Optometry School GPA.** Among the eight OAT scores, the OAT Academic Average score ($\rho=0.73$), OAT Total Science score ($\rho=0.71$), Biology score ($\rho=0.55$), General Chemistry score ($\rho=0.55$), Physics score ($\rho=0.54$), and Organic Chemistry score ($\rho=0.53$) appear to have the highest level of association with overall GPAs in the second-year of optometry school (Table 3). Overall undergraduate GPA ($\rho=0.44$) and math and science GPA ($\rho=0.44$) were also strongly related to second-year overall GPA.

It should also be noted that because the distributions of undergraduate GPA and math & science GPA for all applicants were not known, it was not possible to correct for range restriction for these predictors. The true relationship (ρ) between these predictors and general performance in optometry school is likely to be higher than the values currently being reported (i.e., due to the inability to correct for this statistical artifact).

Part II: Multiple Correlations between Optometry School Grades and Sets of Predictors (OAT Scores, Undergraduate GPAs, and Options)

The bottom section of Tables 2 through 10 present multiple correlations between optometry school grades and three sets of predictors (i.e., various combinations of undergraduate GPAs and OAT scores). Across these tables, the criterion measure (i.e., optometry school grades) changes for each table, while the sets of predictors included in separate multiple regressions remains the same. Additionally, it should be recognized that the schools involved change across predictor sets. For example, in Table 3 a total of 6 schools were involved for the predictor set “All OAT Subscale Scores,” while only 5 schools were involved for the predictor sets involving overall and math/science GPAs.

Tables 2 and 3 present multiple correlations involving first- and second-year optometry school grades, respectively, and the aforementioned sets of predictors. Tables 4 through 10 present multiple correlations involving optometry school grades in Tracks I through VII, respectively, and the aforementioned sets of predictors. Due to the fact that some schools could not provide data in every area requested, the number of schools involved in the calculation of the corrected correlation coefficients may change each time when more predictors are added to the standard multiple regressions (i.e., within a given performance criterion (e.g., Track V grades), the schools utilized to calculate the corrected correlation coefficient for “All OAT Subscale Scores” may not be the same schools utilized to calculate the corrected correlation coefficient for “All OAT Subscale Scores; Math/Science & Overall GPAs”). Given this situation, it is possible to obtain a non-intuitive finding that the corrected correlation coefficient has decreased even though more predictors have been added to the standard multiple regression.

Key findings involving multiple correlations are summarized below.

- The predictor set “All OAT Subscale Scores” is strongly related to both first-year overall GPA ($\rho=0.63$) and second year overall GPA ($\rho=0.65$), as shown in Tables 2 and 3, respectively.
- The addition of overall undergraduate GPA and math and science GPA results in stronger obtained relationships to first-year overall GPA ($\rho=0.73$) and second-year overall GPA ($\rho=0.77$).
- The pattern of multiple correlations involving optometry school grades in Tracks I through VII (Tables 4 to 10) and different sets of predictors is similar to that involving first-year overall GPAs (Table 2) and second-year overall GPAs (Table 3). All OAT Subscale Scores are strongly related to optometry school grades in Tracks I through VII, with ρ values ranging from 0.43 (Table 10) to 0.66 (Table 5). As a set, All OAT scores, overall undergraduate GPA, and math and science GPA are more strongly related to optometry school grades in Tracks I through VII, with ρ values ranging from 0.49 (Table 9) to 0.75 (Table 4).
- Only two optometry schools provided data for Track VI Clinic, so results for this outcome should be interpreted with caution. While the multiple correlation values for the regressions involving Track VI were generally strong, ranging from .45 to .49, the bivariate correlations were considerably weaker, and negative in some instances.
- At an overall level, the predictor set that included OAT subscale scores and undergraduate GPAs revealed a strong and consistent prediction of optometry school performance.

Again, it should be noted that the multiple correlations could not be corrected for range restriction. Given this, the true relationships involving these predictors is likely to be even higher than that currently reported.

Limitations

The data in this report are based on a sample consisting of optometry students from seven (29%) of the 24 optometry schools in the United States. A limitation of this study is that not all schools reported data in all areas. To the degree that the present sample is not representative of the full population, this would limit the ability to generalize conclusions from this sample to the entire optometry school population. Having noted this, it should also be recognized that results reported for individual schools provide extremely valuable information for those participating schools. This information can be used to help optimize school admissions practices.

Although the corrected bivariate correlation coefficients accounted for range restriction in the OAT scores, it should be noted that other predictors (i.e., undergraduate GPA and math & science GPA) also likely suffer from range restriction. In other words, since higher OAT scores and higher undergraduate GPAs are associated with higher first- and second-year grades, optometry student samples (which consist of these higher scoring individuals) likely contain fewer students with poor optometry grades than would be the case had these predictors not been utilized in admission decisions. Range restriction reduces the magnitude of obtained correlation coefficients. The net impact of these statistical artifacts is that reported correlations likely underestimate the true magnitude of the relationship between these predictors and true optometry performance.

Conclusions

This study found that OAT scores and undergraduate GPAs were strong individual predictors of student performance in optometry school. When these predictors were taken as a set, the total contribution of the set represented a more powerful predictor than that obtained when looking at each predictor individually. The criterion-related validity evidence presented in this report is

consistent with the results of numerous prior OAT validity studies, and should reassure optometry programs of the continued value of including OAT scores as part of their admission criteria.

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Appendix 1. Pearson Product-Moment Correlation Coefficients and Multiple Correlations between First-Year and Second-Year Optometry School Grades and Predictors (OAT Scores, Undergraduate GPAs and Options).

In interpreting the tables presented in this appendix, the following should be noted:

- Tables 1 through 9 present bivariate (i.e., two variable) correlations involving optometry school grades and various individual predictors, including undergraduate GPAs and OAT scores, and optional predictors. The nature of some of these predictors is specific to particular schools, and therefore interpretation of these is left to the individual schools.
- Tables 10 through 18 present multiple correlations involving optometry school grades and various sets of predictors (i.e., various combinations of undergraduate GPAs, optional predictors, and OAT scores). Again, the nature of some of these predictors is specific to particular schools.
- Correlations which are significant at the 0.05 level are indicated by asterisks in Tables 1 through 9. At this level, there is a 95% probability that the obtained results are not attributable to chance.
- “# of Significant Correlations” represent the number of schools for which the computed coefficient was significant at the 0.05 level, and “Percent Significant” is a ratio representing the number of significant coefficients (the first row) divided by the total number of coefficients (the second row) in Tables 1 through 9.
- In Tables 10 through 18, “Percent of explained variance” represents the squared multiple correlation (R^2) between a dependent variable and a set of independent variables. R^2 is the proportion of variance in first- or second-year GPAs that can be predicted by a linear combination of the independent variables.

Table 1: First-Year Optometry School Overall GPAs Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	0.320*	0.375*	0.296*	N/AV	N/AV	0.150	0.218	0.089	0.243	0.236	0.167	-0.138	0.057
SCHOOL 002	110	0.333*	N/AV	0.372*	N/AV	N/AV	0.566*	0.616*	0.558*	0.353*	0.453*	0.458*	0.511*	0.435*
SCHOOL 003	42	0.502*	0.542*	N/AV	N/AV	N/AV	0.551*	0.476*	0.118	0.101	0.482*	0.353*	0.345*	0.503*
SCHOOL 004	96	0.449*	0.403*	0.365*	0.154	N/AV	0.525*	0.579*	0.348*	0.364*	0.454*	0.310*	0.390*	0.395*
SCHOOL 005	69	0.508*	0.535*	N/AV	N/AV	N/AV	0.610*	0.523*	0.142	0.196	0.480*	0.460*	0.315*	0.434*
SCHOOL 006	26	0.517*	0.500*	0.482*	0.523*	0.553*	0.583*	0.602*	0.316	0.373	0.237	0.572*	0.455*	0.430*
SCHOOL 007	151	0.383*	0.369*	0.355*	0.473*	N/AV	0.398*	0.392*	0.212*	0.155	0.222*	0.334*	0.299*	0.346*
# OF SIGNIFICANT COEFFICIENTS		7	6	5	2	1	6	6	3	2	5	6	6	6
VALID N		7	6	5	3	1	7	7	7	7	7	7	7	7
PERCENT		100%	100%	100%	67%	100%	86%	86%	43%	29%	71%	86%	86%	86%
MEDIAN		0.449	0.452	0.365	0.473	0.553	0.551	0.523	0.212	0.243	0.453	0.353	0.345	0.430

N/AV - GRADES NOT AVAILABLE

* Significant Coefficients

Table 2: Second-Year Optometry School Overall GPAs Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	0.282*	0.315*	0.277*	N/AV	N/AV	0.255	0.297*	0.160	0.187	0.205	0.310*	-0.075	0.127
SCHOOL 002	110	0.421*	N/AV	0.410*	N/AV	N/AV	0.534*	0.561*	0.494*	0.327*	0.440*	0.431*	0.476*	0.405*
SCHOOL 003	42	0.430*	0.439*	N/AV	N/AV	N/AV	0.582*	0.566*	0.197	0.313	0.416*	0.424*	0.405*	0.562*
SCHOOL 004	96	0.465*	0.434*	0.387*	0.162	N/AV	0.537*	0.530*	0.231*	0.203	0.415*	0.347*	0.366*	0.518*
SCHOOL 005	69	0.501*	0.534*	N/AV	N/AV	N/AV	0.611*	0.534*	0.126	0.217	0.420*	0.485*	0.316*	0.461*
SCHOOL 006	26	0.713*	0.618*	0.601*	0.369	0.406*	0.557*	0.530*	0.129	0.268	0.356	0.450*	0.493*	0.372
SCHOOL 007	151	0.269*	0.291*	0.339*	0.438*	N/AV	0.393*	0.383*	0.228*	0.126	0.282*	0.352*	0.251*	0.290*
# OF SIGNIFICANT COEFFICIENTS		7	6	5	1	1	6	7	3	1	5	7	6	5
VALID N		7	6	5	3	1	7	7	7	7	7	7	7	7
PERCENT		100%	100%	100%	33%	100%	86%	100%	43%	14%	71%	100%	86%	71%
MEDIAN		0.430	0.436	0.387	0.369	0.406	0.537	0.530	0.197	0.217	0.415	0.424	0.366	0.405

N/AV - GRADES NOT AVAILABLE

* Significant Coefficients

Table 3: Optometry School Track I Grades: Optics Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	0.379*	0.417*	0.382*	N/AV	N/AV	0.137	0.182	0.074	0.136	0.138	0.203	-0.116	0.121
SCHOOL 002	110	0.361*	N/AV	0.381*	N/AV	N/AV	0.532*	0.557*	0.473*	0.349*	0.395*	0.439*	0.416*	0.448*
SCHOOL 003	42	0.415*	0.472*	N/AV	N/AV	N/AV	0.426*	0.362*	0.189	-0.020	0.246	0.293	0.287	0.451*
SCHOOL 004	96	0.507*	0.445*	0.390*	0.110	N/AV	0.512*	0.572*	0.372*	0.356*	0.379*	0.343*	0.450*	0.396*
SCHOOL 005	69	0.498*	0.533*	N/AV	N/AV	N/AV	0.569*	0.549*	0.336*	0.247*	0.331*	0.523*	0.289*	0.370*
SCHOOL 006	26	0.607*	0.552*	0.564*	0.366	0.351	0.440*	0.439*	0.303	0.203	0.012	0.490*	0.407*	0.367
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
# OF SIGNIFICANT COEFFICIENTS		6	5	4	0	0	5	5	3	3	3	4	4	4
VALID N		6	5	4	2	1	6	6	6	6	6	6	6	6
PERCENT		100%	100%	100%	0%	0%	83%	83%	50%	50%	50%	67%	67%	67%
MEDIAN		0.456	0.472	0.386	0.238	0.351	0.476	0.494	0.320	0.225	0.288	0.391	0.348	0.383

N/AV - GRADES NOT AVAILABLE

* Significant Coefficients

Table 4: Optometry School Track II Grades: Biomedical Science Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	0.346*	0.412*	0.279*	N/AV	N/AV	0.155	0.176	-0.010	0.181	0.171	0.164	-0.129	0.135
SCHOOL 002	110	0.336*	N/AV	0.357*	N/AV	N/AV	0.534*	0.587*	0.545*	0.322*	0.497*	0.380*	0.501*	0.419*
SCHOOL 003	42	0.547*	0.594*	N/AV	N/AV	N/AV	0.505*	0.420*	0.127	0.014	0.386*	0.331*	0.266	0.533*
SCHOOL 004	96	0.378*	0.361*	0.309*	0.177	N/AV	0.549*	0.577*	0.239*	0.380*	0.482*	0.334*	0.420*	0.459*
SCHOOL 005	69	0.436*	0.497*	N/AV	N/AV	N/AV	0.562*	0.437*	-0.004	0.109	0.527*	0.365*	0.311*	0.410*
SCHOOL 006	26	0.271	0.155	0.233	0.306	0.354	0.002	-0.113	-0.125	-0.271	-0.211	0.092	0.144	0.013
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
# OF SIGNIFICANT COEFFICIENTS		5	4	3	0	0	4	4	2	2	4	4	3	4
VALID N		6	5	4	2	1	6	6	6	6	6	6	6	6
PERCENT		83%	80%	75%	0%	0%	67%	67%	33%	33%	67%	67%	50%	67%
MEDIAN		0.362	0.412	0.294	0.241	0.354	0.519	0.429	0.061	0.145	0.434	0.333	0.289	0.414

N/AV - GRADES NOT AVAILABLE
 * Significant Coefficients

Table 5: Optometry School Track III Grades: Vision Science Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	0.156	0.174	0.153	N/AV	N/AV	0.210	0.276*	0.170	0.230	0.167	0.258	-0.066	0.080
SCHOOL 002	110	0.413*	N/AV	0.400*	N/AV	N/AV	0.499*	0.541*	0.473*	0.361*	0.369*	0.399*	0.428*	0.419*
SCHOOL 003	42	0.514*	0.574*	N/AV	N/AV	N/AV	0.450*	0.423*	0.195	0.143	0.278	0.288	0.291	0.530*
SCHOOL 004	96	0.310*	0.293*	0.280*	0.212*	N/AV	0.452*	0.484*	0.204	0.313*	0.413*	0.216*	0.328*	0.401*
SCHOOL 005	69	0.424*	0.456*	N/AV	N/AV	N/AV	0.646*	0.533*	0.159	0.118	0.554*	0.464*	0.357*	0.447*
SCHOOL 006	26	0.384	0.258	0.295	0.303	0.315	0.347	0.306	0.369	-0.099	-0.035	0.519*	0.316	0.251
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
# OF SIGNIFICANT COEFFICIENTS		4	3	2	1	0	4	5	1	2	3	4	3	4
VALID N		6	5	4	2	1	6	6	6	6	6	6	6	6
PERCENT		67%	60%	50%	50%	0%	67%	83%	17%	33%	50%	67%	50%	67%
MEDIAN		0.398	0.293	0.288	0.258	0.315	0.451	0.454	0.200	0.186	0.324	0.344	0.322	0.410

N/AV - GRADES NOT AVAILABLE

* Significant Coefficients

Table 6: Optometry School Track IV Grades: Ocular Health Science Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	0.376*	0.379*	0.317*	N/AV	N/AV	0.095	0.159	0.149	0.089	0.065	0.206	-0.155	0.089
SCHOOL 002	110	0.337*	N/AV	0.318*	N/AV	N/AV	0.375*	0.393*	0.328*	0.238*	0.408*	0.227*	0.338*	0.302*
SCHOOL 003	42	0.318*	0.333*	N/AV	N/AV	N/AV	0.444*	0.420*	0.077	0.280	0.238	0.327	0.334*	0.486*
SCHOOL 004	96	0.342*	0.317*	0.294*	0.188	N/AV	0.296*	0.266*	0.043	0.096	0.261*	0.157	0.195	0.306*
SCHOOL 005	69	0.581*	0.624*	N/AV	N/AV	N/AV	0.415*	0.358*	0.048	0.140	0.294*	0.319*	0.154	0.313*
SCHOOL 006	26	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
# OF SIGNIFICANT COEFFICIENTS		5	4	3	0	0	4	4	1	1	3	2	2	4
VALID N		5	4	3	1	0	5	5	5	5	5	5	5	5
PERCENT		100%	100%	100%	0%		80%	80%	20%	20%	60%	40%	40%	80%
MEDIAN		0.342	0.356	0.317	0.188		0.375	0.358	0.077	0.140	0.261	0.227	0.195	0.306

N/AV - GRADES NOT AVAILABLE

* Significant Coefficients

Table 7: Optometry School Track V Grades: Clinical Science Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	0.413*	0.436*	0.388*	N/AV	N/AV	0.032	0.109	0.094	0.154	0.127	0.107	-0.247	0.021
SCHOOL 002	110	0.376*	N/AV	0.403*	N/AV	N/AV	0.431*	0.466*	0.436*	0.282*	0.298*	0.344*	0.356*	0.408*
SCHOOL 003	42	0.424*	0.529*	N/AV	N/AV	N/AV	0.279	0.176	0.069	-0.164	0.115	0.169	0.112	0.400*
SCHOOL 004	96	0.489*	0.488*	0.432*	0.190	N/AV	0.599*	0.644*	0.405*	0.362*	0.478*	0.410*	0.471*	0.433*
SCHOOL 005	69	0.365*	0.394*	N/AV	N/AV	N/AV	0.424*	0.392*	0.142	0.157	0.159	0.333*	0.326*	0.339*
SCHOOL 006	26	0.446*	0.279	0.233	0.119	0.106	0.091	0.215	-0.002	0.444*	0.115	0.012	-0.060	0.175
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
# OF SIGNIFICANT COEFFICIENTS		6	4	3	0	0	3	3	2	3	2	3	3	4
VALID N		6	5	4	2	1	6	6	6	6	6	6	6	6
PERCENT		100%	80%	75%	0%	0%	50%	50%	33%	50%	33%	50%	50%	67%
MEDIAN		0.419	0.436	0.396	0.155	0.106	0.352	0.304	0.118	0.219	0.143	0.251	0.219	0.369

N/AV - GRADES NOT AVAILABLE
 * Significant Coefficients

Table 8: Optometry School Track VI Grades: Clinic Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 002	110	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	-0.006	0.003	N/AV	N/AV	N/AV	0.112	-0.104	-0.024	-0.060	0.069	-0.197	-0.296	0.059
SCHOOL 004	96	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 005	69	-0.161	-0.142	N/AV	N/AV	N/AV	0.077	0.066	0.070	-0.008	-0.193	0.109	0.106	0.201
SCHOOL 006	26	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
# OF SIGNIFICANT COEFFICIENTS		0	0	0	0	0	0	0	0	0	0	0	0	0
VALID N		2	2	0	0	0	2	2	2	2	2	2	2	2
PERCENT		0%	0%				0%	0%	0%	0%	0%	0%	0%	0%
MEDIAN		-0.083	-0.070				0.017	-0.019	0.023	-0.034	-0.062	-0.044	-0.095	0.130

N/AV - GRADES NOT AVAILABLE

* Significant Coefficients

Table 9: Optometry School Track VII Grades: Other Correlated with OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	UNDER GRAD GPA	MATH & SCIENCE GPA	OTHER GPA	OPTION 1	OPTION 2	OPTOMETRY ADMISSION TEST							
							TS	ACAD AVG	QUANTI-TATIVE	READING-COMP.	PHYSICS	BIOLOGY	GENERAL CHEM.	ORGANIC CHEM.
SCHOOL 001	62	0.460*	0.443*	0.353*	N/AV	N/AV	0.056	0.076	0.012	0.053	0.113	0.121	-0.111	0.031
SCHOOL 002	110	0.083	N/AV	0.081	N/AV	N/AV	0.147	0.161	0.173	0.148	0.152	0.209*	0.021	0.086
SCHOOL 003	42	0.170	0.132	N/AV	N/AV	N/AV	0.232	0.281	0.066	0.433*	0.231	0.099	-0.011	0.309
SCHOOL 004	96	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 005	69	0.411*	0.428*	N/AV	N/AV	N/AV	0.385*	0.435*	0.300*	0.350*	0.136	0.426*	0.074	0.286*
SCHOOL 006	26	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV	N/AV
# OF SIGNIFICANT COEFFICIENTS		2	2	1	0	0	1	1	1	2	0	2	0	1
VALID N		4	3	2	0	0	4	4	4	4	4	4	4	4
PERCENT		50%	67%	50%			25%	25%	25%	50%	0%	50%	0%	25%
MEDIAN		0.291	0.428	0.217			0.190	0.221	0.120	0.249	0.144	0.165	0.005	0.186

N/AV - GRADES NOT AVAILABLE
 * Significant Coefficients

Table 10: First-Year Optometry School Overall GPAs Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	0.487	0.590	0.590	0.605	N/AV
SCHOOL 002	110	0.637	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.572	0.639	0.644	N/AV	N/AV
SCHOOL 004	96	0.606	0.661	0.695	0.696	N/AV
SCHOOL 005	69	0.643	0.771	0.771	N/AV	N/AV
SCHOOL 006	26	0.783	0.794	0.805	0.808	N/AV**
SCHOOL 007	151	0.429	0.590	0.601	0.601	N/AV
MEDIAN		0.606	0.650	0.669	0.650	
PERCENT OF EXPLAINED VARIANCE		36.7%	42.2%	44.8%	42.3%	

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

** School 006 provided data for Option 1 and Option 2, but the regression model did not converge when these predictors were included.

Table 11: Second-Year Optometry School Overall GPAs Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	0.468	0.541	0.547	0.557	N/AV
SCHOOL 002	110	0.589	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.640	0.645	0.650	N/AV	N/AV
SCHOOL 004	96	0.591	0.664	0.710	0.717	N/AV
SCHOOL 005	69	0.663	0.779	0.779	N/AV	N/AV
SCHOOL 006	26	0.631	0.751	0.839	0.859	N/AV**
SCHOOL 007	151	0.393	0.502	0.503	0.509	N/AV
MEDIAN PERCENT OF EXPLAINED VARIANCE		0.591	0.654	0.680	0.637	
		34.9%	42.8%	46.3%	40.6%	

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

** School 006 provided data for Option 1 and Option 2, but the regression model did not converge when these predictors were included.

Table 12: Optometry School Track I Grades: Optics Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	0.403	0.569	0.572	0.575	N/AV
SCHOOL 002	110	0.566	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.503	0.572	0.578	N/AV	N/AV
SCHOOL 004	96	0.598	0.668	0.720	0.728	N/AV
SCHOOL 005	69	0.593	0.738	0.743	N/AV	N/AV
SCHOOL 006	26	0.743	0.799	0.830	0.831	N/AV**
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV
MEDIAN		0.580	0.668	0.720	0.728	
PERCENT OF EXPLAINED VARIANCE		33.6%	44.6%	51.9%	52.9%	

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

** School 006 provided data for Option 1 and Option 2, but the regression model did not converge when these predictors were included.

Table 13: Optometry School Track II Grades: Biomedical Science Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	0.462	0.579	0.581	0.620	N/AV
SCHOOL 002	110	0.638	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.556	0.624	0.632	N/AV	N/AV
SCHOOL 004	96	0.629	0.667	0.690	0.692	N/AV
SCHOOL 005	69	0.653	0.749	0.760	N/AV	N/AV
SCHOOL 006	26	0.492	0.558	0.620	0.622	N/AV**
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV
MEDIAN PERCENT OF EXPLAINED VARIANCE		0.593	0.624	0.632	0.622	
		35.1%	38.9%	40.0%	38.7%	

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

** School 006 provided data for Option 1 and Option 2, but the regression model did not converge when these predictors were included.

Table 14: Optometry School Track III Grades: Vision Science Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	0.425	0.452	0.461	0.477	N/AV
SCHOOL 002	110	0.557	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.553	0.640	0.661	N/AV	N/AV
SCHOOL 004	96	0.551	0.572	0.580	0.581	N/AV
SCHOOL 005	69	0.669	0.745	0.746	N/AV	N/AV
SCHOOL 006	26	0.678	0.692	0.782	0.788	N/AV**
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV
MEDIAN		0.555	0.640	0.661	0.581	
PERCENT OF EXPLAINED VARIANCE		30.8%	40.9%	43.6%	33.7%	

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

** School 006 provided data for Option 1 and Option 2, but the regression model did not converge when these predictors were included.

Table 15: Optometry School Track IV Grades: Ocular Health Science Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	0.357	0.499	0.512	0.547	N/AV
SCHOOL 002	110	0.458	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.579	0.588	0.590	N/AV	N/AV
SCHOOL 004	96	0.352	0.453	0.491	0.493	N/AV
SCHOOL 005	69	0.466	0.710	0.710	N/AV	N/AV
SCHOOL 006	26	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV
MEDIAN PERCENT OF EXPLAINED VARIANCE		0.458	0.544	0.551	0.520	
		21.0%	29.5%	30.4%	27.0%	

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

Table 16: Optometry School Track V Grades: Clinical Science Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	0.439	0.602	0.609	0.613	N/AV
SCHOOL 002	110	0.503	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.482	0.617	0.658	N/AV	N/AV
SCHOOL 004	96	0.653	0.726	0.747	0.747	N/AV
SCHOOL 005	69	0.471	0.574	0.578	N/AV	N/AV
SCHOOL 006	26	0.608	0.609	0.803	0.823	N/AV**
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV
MEDIAN		0.493	0.609	0.658	0.747	
PERCENT OF EXPLAINED VARIANCE		24.3%	37.1%	43.3%	55.8%	

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

** School 006 provided data for Option 1 and Option 2, but the regression model did not converge when these predictors were included.

Table 17: Optometry School Track VI Grades: Clinic Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 002	110	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.457	0.462	0.463	N/AV	N/AV
SCHOOL 004	96	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 005	69	0.384	0.405	0.438	N/AV	N/AV
SCHOOL 006	26	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV
MEDIAN PERCENT OF EXPLAINED VARIANCE		0.421 17.7%	0.434 18.8%	0.450 20.3%		

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

Table 18: Optometry School Track VII Grades: Other Regressed on OAT Scores, Undergraduate GPAs, Math & Science GPAs, and Other GPAs

SCHOOL	NUMBER OF STUDENTS	OAT SCALES ONLY*	OAT & Math/Science GPA	OAT, Math/Science & Overall GPAs	OAT, Math/Science, Overall & Other GPAs	OAT, Math/Science, Overall & Other GPAs & Options
SCHOOL 001	62	0.259	0.475	0.499	0.562	N/AV
SCHOOL 002	110	0.282	N/AV	N/AV	N/AV	N/AV
SCHOOL 003	42	0.556	0.557	0.564	N/AV	N/AV
SCHOOL 004	96	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 005	69	0.577	0.709	0.712	N/AV	N/AV
SCHOOL 006	26	N/AV	N/AV	N/AV	N/AV	N/AV
SCHOOL 007	151	N/AV	N/AV	N/AV	N/AV	N/AV
MEDIAN PERCENT OF EXPLAINED VARIANCE		0.419	0.557	0.564	0.562	
		17.5%	31.0%	31.9%	31.6%	

N/AV - GRADES NOT AVAILABLE

* OAT scales include quantitative reasoning, reading comprehension, biology, general and organic chemistry, and physics.

OAT Optometry Admission Test

Optometry Admission Test Program
Department of Testing Services
401 North Michigan Avenue
Chicago, Illinois 60611-2637

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