



OHIO BOARD
OF REGENTS

Six-Year Enrollment Patterns and Outcomes

Fall 1998 Cohort of First-Time Freshmen

January, 2005

Six-Year Enrollment Patterns and Outcomes, Fall 1998 Cohort of First-Time Freshmen

Table 1 - Cohort Characteristics

62,232 students began college as first-time freshmen in Ohio in fall 1998. This freshman class was 15% minority, 55% female, and 70% full-time. About 80% of these freshmen were 19 and younger, 43% began in the two-year sector, and 93% were Ohio residents. The decision to enroll as a full-time or a part-time student is related to race/ethnicity, age, sector of first-time enrollment, and Ohio residence. Minority students are less likely to enroll as full-time students (63%) than are non-minority students (71%). Seventy-eight percent of students age 19 and younger were full-time, compared to 28% of students age 25 and older. Most four-year sector students (85%) were full-time, compared to about half (49%) of two-year sector students. Out-of-state students are more likely than Ohio residents to enroll as full-time students.

Large racial/ethnic differences in income exist among college freshmen, as median income for minority freshmen (\$20,464) is less than half of median income for non-minority freshmen (\$47,554).

Table 2 - Outcomes by Demographic Characteristics

College success varies by race/ethnicity, gender, age, sector of first enrollment, and state residence. The six-year degree attainment rate for minorities was 29%, compared to 47% for non-minorities. Female students were more likely to graduate than male students (47% vs. 40%), and students 19 and younger were more likely to graduate than older students (50% vs. 20%).

Table 3 - Outcomes by Pre-College Academic Characteristics

Among freshmen age 19 and younger, college success is strongly related to college entrance exam scores and high school course-taking patterns. The six-year graduation rate for students scoring below 18 on the ACT was 34%, compared to 73% for students scoring 25 and higher. The six-year graduation rate for students taking less than the minimum college preparatory curriculum in high school was 40%, compared to 69% for students taking the complete college preparatory curriculum.

Table 4 - Outcomes by First-Year College Performance

Six-year graduation rates for students taking remedial courses in their freshman year were half as high as those for students not taking remedial courses (27% vs. 53%). First-year course completion and grades were even more related to graduation rates than remedial course enrollment. The graduation rate for students who completed less than 80% of their freshman courses was only 14%, compared to 61% for students who completed 80% or more of their freshman courses. The graduation rate for students with first-year GPAs below 2.8 was 29%, compared to 63% for students with first-year GPAs of 2.8 and higher.

Table 5 - Outcomes by Combined Effect of ACT and High School Preparation

Table 6 - Outcomes by Combined Effect of ACT and High School Preparation, by First Year Course Completion Rate

Students who have less than average ACT scores (18-20) and a minimum level of high school preparation, who nonetheless are able to complete 80% of their freshman courses, have a 67% six-year graduation rate. Conversely, students with much higher ACT scores (over 25) who also took the complete core in high school, who were not able to complete at least 80% of their freshman courses, had a 37% six-year graduation rate.

Table 1. Cohort Characteristics
Cohort of Fall 1998 Entering Freshmen

| | Students in Cohort | Enrollment Status | | | | Income | |
|------------------------------|--------------------|-------------------|-----|-----------|-----|----------|----------|
| | | Full-Time | | Part-Time | | Average | Median |
| | N | N | % | N | % | | |
| Total | 62,232 | 43,268 | 70% | 18,964 | 30% | \$50,096 | \$42,364 |
| <i>Minority Students</i> | 9,206 | 5,785 | 63% | 3,421 | 37% | \$31,646 | \$20,464 |
| <i>Non-Minority Students</i> | 53,026 | 37,483 | 71% | 15,543 | 29% | \$53,655 | \$47,554 |
| Gender | | | | | | | |
| <i>Female</i> | 33,932 | 23,649 | 70% | 10,283 | 30% | \$46,858 | \$37,710 |
| <i>Male</i> | 28,300 | 19,619 | 69% | 8,681 | 31% | \$54,415 | \$48,252 |
| Age | | | | | | | |
| <i>18 and Younger</i> | 49,572 | 38,803 | 78% | 10,769 | 22% | \$56,378 | \$51,000 |
| <i>20 to 24</i> | 6,739 | 2,779 | 41% | 3,960 | 59% | \$24,652 | \$15,857 |
| <i>25 and Older</i> | 5,921 | 1,686 | 28% | 4,235 | 72% | \$23,598 | \$18,173 |
| Sector | | | | | | | |
| <i>2-Year Sector</i> | 26,682 | 13,121 | 49% | 13,561 | 51% | \$41,122 | \$33,511 |
| <i>4-Year Sector</i> | 35,550 | 30,147 | 85% | 5,403 | 15% | \$56,933 | \$51,007 |
| State | | | | | | | |
| <i>Ohio</i> | 57,697 | 39,528 | 69% | 18,169 | 31% | \$50,162 | \$42,529 |
| <i>Out-of-State</i> | 4,535 | 3,740 | 82% | 795 | 18% | \$44,385 | \$26,097 |

Table 2. Outcomes by Demographic Characteristics
Cohort of Fall 1998 Entering Freshmen

| | Students in Cohort | Percent in Developmental | Percent Passing 80% of Courses | Percent Earning Degree | Percent Persisting | Percent Leaving |
|------------------------------|--------------------|--------------------------|--------------------------------|------------------------|--------------------|-----------------|
| Total | 62,232 | 32% | 63% | 44% | 15% | 39% |
| <i>Minority Students</i> | 9,206 | 45% | 45% | 29% | 20% | 50% |
| <i>Non-Minority Students</i> | 53,026 | 30% | 67% | 47% | 15% | 37% |
| Gender | | | | | | |
| <i>Female</i> | 33,932 | 32% | 66% | 47% | 15% | 36% |
| <i>Male</i> | 28,300 | 31% | 60% | 40% | 16% | 42% |
| Age | | | | | | |
| <i>19 and Younger</i> | 49,572 | 29% | 66% | 50% | 16% | 33% |
| <i>20 to 24</i> | 6,739 | 46% | 45% | 20% | 17% | 62% |
| <i>25 and Older</i> | 5,921 | 38% | 59% | 19% | 12% | 68% |
| Sector | | | | | | |
| <i>2-Year Sector</i> | 26,682 | 49% | 54% | 27% | 17% | 54% |
| <i>4-Year Sector</i> | 35,550 | 19% | 70% | 57% | 14% | 27% |
| Residence | | | | | | |
| <i>Ohio</i> | 57,697 | 33% | 62% | 43% | 16% | 39% |
| <i>Out-of-State</i> | 4,535 | 15% | 75% | 52% | 5% | 41% |

Table 3. Outcomes by Pre-College Academic Characteristics
 Fall 1998 Cohort of Young, First-Time Freshmen

| | Students in Cohort | Percent in Developmental | Percent Passing 80% of Courses | Percent Earning Degree | Percent Persisting | Percent Leaving |
|-------------------------------|--------------------|--------------------------|--------------------------------|------------------------|--------------------|-----------------|
| Total | 45,612 | 31% | 65% | 50% | 17% | 32% |
| ACT Range | | | | | | |
| <i>No ACT Data</i> | 6,344 | 57% | 40% | 21% | 19% | 59% |
| <i>Below 18</i> | 7,875 | 65% | 52% | 34% | 21% | 44% |
| <i>18 - 20</i> | 10,002 | 36% | 66% | 48% | 19% | 32% |
| <i>21 - 22</i> | 6,651 | 16% | 73% | 59% | 15% | 25% |
| <i>23 - 25</i> | 7,827 | 7% | 78% | 65% | 14% | 19% |
| <i>Over 25</i> | 6,913 | 1% | 82% | 73% | 11% | 14% |
| Core Status | | | | | | |
| <i>No Core Data</i> | 6,985 | 55% | 42% | 22% | 19% | 58% |
| <i>Less than Minimum Core</i> | 11,753 | 44% | 59% | 40% | 19% | 39% |
| <i>Minimum Core</i> | 17,803 | 24% | 72% | 57% | 16% | 25% |
| <i>Complete Core</i> | 9,071 | 9% | 79% | 69% | 13% | 16% |

Table 4. Outcomes by First-Year College Results
Cohort of Fall 1998 Entering Freshmen

| | Students in Cohort | Percent Earning Degree | Percent Persisting | Percent Leaving |
|-------------------------------|--------------------|------------------------|--------------------|-----------------|
| Total | 62,232 | 44% | 15% | 39% |
| Took Remedial Courses? | | | | |
| <i>Yes</i> | 20,184 | 27% | 19% | 53% |
| <i>No</i> | 42,048 | 53% | 14% | 32% |
| Course Completion Rate | | | | |
| <i>Less than 80%</i> | 22,469 | 14% | 21% | 64% |
| <i>80% and Higher</i> | 39,763 | 61% | 12% | 25% |
| GPA Range | | | | |
| <i>Below 2.8</i> | 34,758 | 29% | 19% | 50% |
| <i>2.8 and Higher</i> | 27,474 | 63% | 11% | 25% |

Table 5. Outcomes by Combined Effect of ACT and High School Preparation
 Fall 1998 Cohort of Young, First-Time Freshmen

| ACT Score | High School Academic Preparation | Students in Cohort | Percent Passing 80% of Courses | Percent Earning Degree | Percent Persisting | Percent Leaving |
|--------------------|----------------------------------|--------------------|--------------------------------|------------------------|--------------------|-----------------|
| All | <i>All</i> | 45,612 | 65% | 50% | 17% | 32% |
| Below 18 | <i>No Core Data</i> | 191 | 41% | 22% | 20% | 56% |
| | <i>Less than Minimum Core</i> | 4,223 | 48% | 29% | 20% | 49% |
| | <i>Minimum Core</i> | 2,886 | 57% | 39% | 22% | 38% |
| | <i>Complete Core</i> | 575 | 58% | 44% | 22% | 33% |
| | Subtotal | 7,875 | 52% | 34% | 21% | 44% |
| 18 - 20 | <i>No Core Data</i> | 173 | 54% | 38% | 21% | 39% |
| | <i>Less than Minimum Core</i> | 3,741 | 61% | 40% | 20% | 38% |
| | <i>Minimum Core</i> | 4,772 | 69% | 51% | 18% | 29% |
| | <i>Complete Core</i> | 1,316 | 69% | 56% | 18% | 25% |
| | Subtotal | 10,002 | 66% | 48% | 19% | 32% |
| 21 - 22 | <i>No Core Data</i> | 113 | 60% | 41% | 17% | 40% |
| | <i>Less than Minimum Core</i> | 1,663 | 69% | 50% | 17% | 32% |
| | <i>Minimum Core</i> | 3,433 | 74% | 61% | 14% | 24% |
| | <i>Complete Core</i> | 1,442 | 77% | 65% | 13% | 20% |
| | Subtotal | 6,651 | 73% | 59% | 15% | 25% |
| 23 - 25 | <i>No Core Data</i> | 90 | 64% | 53% | 17% | 28% |
| | <i>Less than Minimum Core</i> | 1,365 | 71% | 53% | 16% | 29% |
| | <i>Minimum Core</i> | 3,827 | 78% | 65% | 14% | 19% |
| | <i>Complete Core</i> | 2,545 | 82% | 72% | 12% | 14% |
| | Subtotal | 7,827 | 78% | 65% | 14% | 19% |
| Over 25 | <i>No Core Data</i> | 75 | 73% | 54% | 16% | 29% |
| | <i>Less than Minimum Core</i> | 761 | 75% | 61% | 14% | 23% |
| | <i>Minimum Core</i> | 2,884 | 82% | 71% | 12% | 15% |
| | <i>Complete Core</i> | 3,193 | 85% | 79% | 10% | 10% |
| | Subtotal | 6,913 | 82% | 73% | 11% | 14% |
| No ACT Data | <i>No Core Data</i> | 6,343 | 40% | 20% | 19% | 59% |
| | Subtotal | 6,343 | 40% | 20% | 19% | 59% |

**Table 6. Outcomes by Combined Effect of ACT and High School Preparation
by First Year Course Completion Rate**

Cohort of Young, Ohio Freshmen Entering College in Fall 1998

| | | | Course Completion Rate | | | | | | | |
|-----------------|----------------------------------|-----------------|------------------------|------------------------|--------------------|--------------------------------------|----------------------|------------------------|--------------------|--------------------------------------|
| | | | Less than 80% | | | | 80% and Higher | | | |
| ACT Score | High School Academic Preparation | Total in Cohort | Number in Sub-Cohort | Percent Earning Degree | Percent Persisting | Percent Earning Degree or Persisting | Number in Sub-Cohort | Percent Earning Degree | Percent Persisting | Percent Earning Degree or Persisting |
| ALL | <i>ALL</i> | 38,626 | 11,471 | 20% | 25% | 45% | 27,155 | 70% | 12% | 83% |
| Below 18 | <i>Less than Minimum Core</i> | 4,223 | 2,169 | 11% | 23% | 34% | 2,054 | 48% | 17% | 66% |
| | <i>Minimum Core</i> | 2,886 | 1,221 | 17% | 25% | 43% | 1,665 | 55% | 19% | 75% |
| | <i>Complete Core</i> | 575 | 236 | 23% | 25% | 49% | 339 | 58% | 20% | 78% |
| 18 - 20 | <i>Less than Minimum Core</i> | 3,741 | 1,446 | 15% | 26% | 42% | 2,295 | 56% | 16% | 72% |
| | <i>Minimum Core</i> | 4,772 | 1,471 | 17% | 27% | 45% | 3,301 | 67% | 14% | 81% |
| | <i>Complete Core</i> | 1,316 | 397 | 27% | 26% | 53% | 919 | 68% | 14% | 83% |
| 21 - 22 | <i>Less than Minimum Core</i> | 1,663 | 509 | 16% | 25% | 42% | 1,154 | 65% | 13% | 78% |
| | <i>Minimum Core</i> | 3,433 | 860 | 22% | 26% | 49% | 2,573 | 73% | 10% | 84% |
| | <i>Complete Core</i> | 1,442 | 331 | 28% | 22% | 50% | 1,111 | 76% | 11% | 87% |
| 23 - 25 | <i>Less than Minimum Core</i> | 1,365 | 392 | 19% | 26% | 46% | 973 | 67% | 12% | 79% |
| | <i>Minimum Core</i> | 3,827 | 818 | 26% | 28% | 54% | 3,009 | 76% | 10% | 86% |
| | <i>Complete Core</i> | 2,545 | 454 | 34% | 27% | 61% | 2,091 | 81% | 9% | 90% |
| Over 25 | <i>Less than Minimum Core</i> | 761 | 187 | 24% | 26% | 50% | 574 | 74% | 10% | 84% |
| | <i>Minimum Core</i> | 2,884 | 516 | 29% | 27% | 56% | 2,368 | 80% | 9% | 89% |
| | <i>Complete Core</i> | 3,193 | 464 | 37% | 25% | 62% | 2,729 | 86% | 7% | 93% |