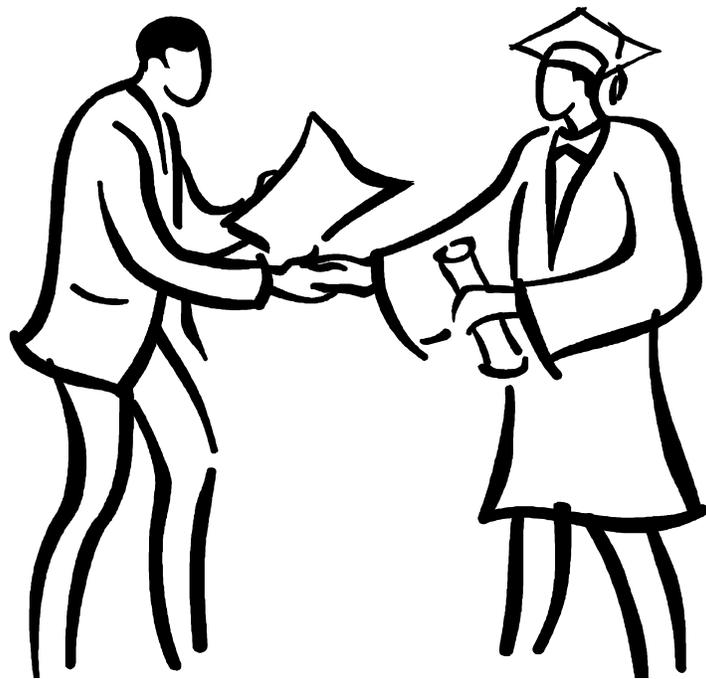


Career and Technical Education

*Secondary Programs
2003-04*



Career and Technical Education

*Secondary Programs
2003-04*

*Compiled
by
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August 2005*

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OVERVIEW

This publication provides information relating to secondary occupational career and technical education program enrollments within Pennsylvania's public secondary schools collected by the Pennsylvania Department of Education (PDE). For school year 2003-04, PDE used the Career and Technical Education Information System (CATS) to collect individual student enrollment data for all approved secondary programs with the exception of family and consumer sciences. The educational pursuits and employment status are presented for the class of 2003 based on a follow-up survey of completers conducted by the Pennsylvania Department of Education during the spring of 2004.

This publication details enrollments and completers within approved programs for the school year 2003-04 with comparisons to previous years' data. Separate information is provided for area vocational-technical schools (AVTSs) and high schools. "AVTS" includes schools designated as "career and technology center" (CTC)," "technical center," "career center," etc. A complete listing of these schools is found in Appendix B. Schools in Philadelphia City (with the exception of the five AVTSs), Pittsburgh and Erie City School Districts are classified as high schools in this publication. Appendix C presents enrollments and completers by federal career cluster categories.

Data was collected from 378 secondary schools. A total of 1,411 approved programs were offered at 81 AVTSs. Approved programs numbered 1,041 at 297 high schools. Collectively, 96,388 students participated in secondary career and technical education programs, 55,117 at AVTSs and 41,271 at high schools. Of the 4,208 students enrolled in the "not elsewhere classified" program area, 2,610 (62.0%) were enrolled in diversified occupations and 1,418 (33.7%) in career exploration / awareness skills.

STATISTICAL HIGHLIGHTS
2003-04

- A total of 96,388 enrollees participated in 2,452 approved programs at 378 secondary schools.
- Minorities, which accounted for 21.4% of the public school enrollments in grades 9-12, comprised 23.4% of the enrollments in approved programs.
- In 2003-04, 31.9% of the 12th grade enrollees were reported as participating in an off-campus learning component.
- Integration of academic courses with career and technical education resulted in 76.9% of completers passing three or more advanced academic courses.
- In 2003-04, tech prep enrollments represented 18.3% of all secondary career and technical education enrollments compared to 10.1% in 1999-00.
- In a 2004 survey of 2002-03 completers, 91.5% of all respondents and 94.0% of the tech prep respondents reported being gainfully placed (employed, in the military or pursuing education).
- The four federal career cluster categories with the greatest percentages of AVTS enrollments were architecture and construction (16.1%), transportation distribution and logistics (15.8%), manufacturing (12.0%) and retail or wholesale sales and services (11.3%).
- The two federal career cluster categories with the greatest percentages of high school enrollments were business and administration (36.4%) and agriculture and natural resources (13.9%).

TABLE 1
 SECONDARY APPROVED PROGRAMS OFFERED
 AVTS AND HIGH SCHOOL
 2003-04

| | TOTAL | AVTS | HIGH SCHOOL |
|---------------------------------------|--------------|--------------|--------------|
| Approved Programs Offered | 2,452 | 1,411 | 1,041 |
| Agriculture Education | 182 | 53 | 129 |
| Business Education | 559 | 96 | 463 |
| Health Occupations Education | 141 | 105 | 36 |
| Marketing and Distributive Education | 65 | 33 | 32 |
| Occupational Home Economics Education | 215 | 133 | 82 |
| Trade and Industrial Education | 1,190 | 953 | 237 |
| Not Elsewhere Classified | 100 | 38 | 62 |

Note: 1. "Approved Programs Offered" are those granted approval status by the Bureau of Career and Technical Education in which enrollments were reported.
 2. School programs with multiple plans of delivery are counted only once.
 3. Secondary enrollments by program are available in Appendix A.

The 2,452 approved secondary programs offered in 378 secondary schools in Pennsylvania during 2003-04 had 96,388 students enrolled. Of these programs, 1,411 (57.5%) had 55,117 students enrolled at 81 AVTSs and 1,041 (42.5%) had 41,271 enrolled at 297 high schools.

Trade and industrial education had the greatest number of programs offered overall (1,190) and at AVTSs (953). At high schools, the greatest number was in business education (463).

Marketing and distributive education had the fewest number of programs offered overall (65). At AVTSs there were 33 offerings while at high schools there were 32.

TABLE 2
 ENROLLMENTS AND COMPLETERS IN SECONDARY PROGRAMS
 BY GENDER AND RACE
 AVTS AND HIGH SCHOOL
 2003-04

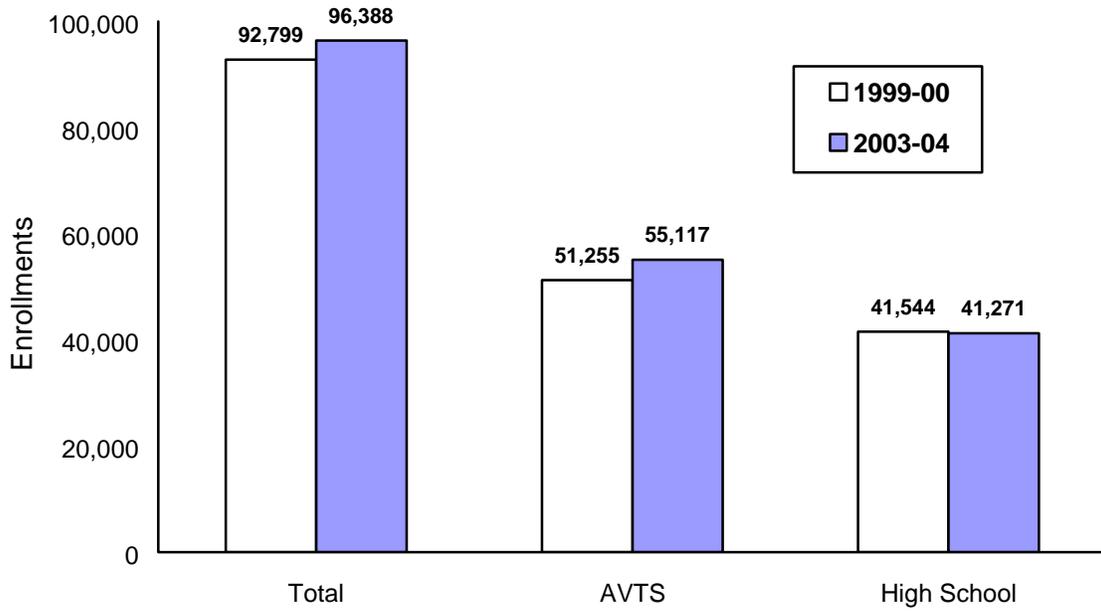
| | ENROLLMENTS | | COMPLETERS | |
|--------------------------------|---------------|--------------|---------------|--------------|
| | Number | % | Number | % |
| TOTAL | 96,388 | 100.0 | 20,359 | 100.0 |
| AVTS | 55,117 | 57.2 | 13,709 | 67.3 |
| Gender | | | | |
| Male | 34,049 | 61.8 | 8,387 | 61.2 |
| Female | 21,068 | 38.2 | 5,322 | 38.8 |
| Race / Ethnicity | | | | |
| American Indian/Alaskan Native | 203 | 0.4 | 33 | 0.2 |
| Asian/Pacific Islander | 311 | 0.6 | 90 | 0.7 |
| Black (Non-Hispanic) | 5,102 | 9.3 | 981 | 7.2 |
| Hispanic | 2,952 | 5.3 | 539 | 3.9 |
| White (Non-Hispanic) | 46,549 | 84.4 | 12,066 | 88.0 |
| HIGH SCHOOL | 41,271 | 42.8 | 6,650 | 32.7 |
| Gender | | | | |
| Male | 22,736 | 55.1 | 3,430 | 51.6 |
| Female | 18,535 | 44.9 | 3,220 | 48.4 |
| Race / Ethnicity | | | | |
| American Indian/Alaskan Native | 68 | 0.2 | 4 | 0.1 |
| Asian/Pacific Islander | 877 | 2.1 | 99 | 1.5 |
| Black (Non-Hispanic) | 10,630 | 25.7 | 1,181 | 17.7 |
| Hispanic | 2,392 | 5.8 | 313 | 4.7 |
| White (Non-Hispanic) | 27,304 | 66.2 | 5,053 | 76.0 |

Minorities comprised 23.4% of the total enrollments and 15.9% of the completers. Of these, black students represented the largest segment, 16.3% of the total enrollments and 10.6% of the completers.

Business education had the greatest percentage of minority enrollments (36.2%); “not elsewhere classified” programs had the lowest percentage (9.8%). Marketing and distributive education had the greatest percentage (26.0%) of minority completers, while agriculture education had the lowest (9.1%).

Females made up 41.1% of total enrollments and 42.0% of total completers. Health occupations education enrollment had the greatest percentage (89.1%) of females, while trade and industrial education had the lowest (24.2%). For completers, the same two program areas had the greatest and the lowest percentage of females, 92.3% and 23.4%, respectively.

FIGURE 1
ENROLLMENTS IN SECONDARY PROGRAMS
AVTS AND HIGH SCHOOL
1999-00 AND 2003-04



Total enrollments increased by 3,589 from 92,799 in 1999-00 to 96,388 in 2003-04. AVTS enrollments increased 7.5% while high school enrollments decreased 0.7%.

TABLE 3
 ENROLLMENTS IN SECONDARY PROGRAMS
 AVTS AND HIGH SCHOOL
 1999-00 AND 2003-04

| | 1999-00 | | | | 2003-04 | | | |
|---------------------------------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | AVTS | | High School | | AVTS | | High School | |
| | Number | % | Number | % | Number | % | Number | % |
| TOTAL | 51,255 | 100.0 | 41,544 | 100.0 | 55,117 | 100.0 | 41,271 | 100.0 |
| Agriculture Education | 2,322 | 4.5 | 5,189 | 12.5 | 2,168 | 3.9 | 5,717 | 13.9 |
| Business Education | 2,494 | 4.9 | 18,177 | 43.7 | 3,530 | 6.4 | 17,999 | 43.6 |
| Health Occupations Education | 3,787 | 7.4 | 2,590 | 6.2 | 4,456 | 8.1 | 2,081 | 5.0 |
| Marketing and Distributive Education | 1,546 | 3.0 | 2,432 | 5.9 | 865 | 1.6 | 1,383 | 3.3 |
| Occupational Home Economics Education | 5,926 | 11.6 | 2,532 | 6.1 | 6,072 | 11.0 | 3,457 | 8.4 |
| Trade and Industrial Education | 34,043 | 66.4 | 9,062 | 21.8 | 35,740 | 64.8 | 8,712 | 21.1 |
| Not Elsewhere Classified | 1,137 | 2.2 | 1,562 | 3.8 | 2,286 | 4.2 | 1,922 | 4.7 |

Between 1999-00 and 2003-04, total career and technical enrollments increased by 3.9% while total public school enrollments in grades 9-12 increased by 7.7%. Trade and industrial education continued to represent the largest number of total enrollments (44,452), followed by business education (21,529). Marketing and distributive education had the smallest number of total enrollments (2,248), followed by “not elsewhere classified” (4,208).

Between 1999-00 and 2003-04, total AVTS enrollments increased by 7.5% while high school enrollments decreased by 0.7%. Within AVTSs, “not elsewhere classified” had the largest percentage enrollment increase (101.1%), followed by business education (41.5%). The largest percentage enrollment decrease within a major program area for AVTSs was within marketing and distributive education (44.0%), followed by agriculture education (6.6%). Within high schools, occupational home economics education had the largest percentage increase (36.5%), followed by “not elsewhere classified” (23.0%). The largest percentage enrollment decrease in high schools was recorded in marketing and distributive education (43.1%), followed by health occupations education (19.7%).

TABLE 4
ENROLLMENTS IN SECONDARY PROGRAMS BY GRADE
AVTS AND HIGH SCHOOL
2003-04

| | TOTAL | GRADE 9 | GRADE 10 | GRADE 11 | GRADE 12 | UNGRADED | ADULTS IN SECONDARY PROGRAMS |
|---------------------------------------|---------------|---------------|---------------|---------------|---------------|-----------|------------------------------------|
| TOTAL | 96,388 | 10,237 | 27,498 | 28,698 | 29,342 | 61 | 552 |
| AVTS | 55,117 | 4,204 | 15,998 | 17,492 | 16,825 | 46 | 552 |
| Agriculture Education | 2,168 | 343 | 654 | 599 | 561 | 0 | 11 |
| Business Education | 3,530 | 257 | 941 | 1,169 | 1,136 | 0 | 27 |
| Health Occupations Education | 4,456 | 201 | 1,215 | 1,463 | 1,534 | 0 | 43 |
| Marketing and Distributive Education | 865 | 54 | 236 | 271 | 295 | 9 | 0 |
| Occupational Home Economics Education | 6,072 | 314 | 1,845 | 2,036 | 1,834 | 16 | 27 |
| Trade and Industrial Education | 35,740 | 1,891 | 10,939 | 11,794 | 10,656 | 20 | 440 |
| Not Elsewhere Classified | 2,286 | 1,144 | 168 | 160 | 809 | 1 | 4 |
| HIGH SCHOOL | 41,271 | 6,033 | 11,500 | 11,206 | 12,517 | 15 | 0 |
| Agriculture Education | 5,717 | 1,729 | 1,457 | 1,405 | 1,124 | 2 | 0 |
| Business Education | 17,999 | 2,655 | 5,320 | 4,738 | 5,285 | 1 | 0 |
| Health Occupations Education | 2,081 | 153 | 764 | 631 | 533 | 0 | 0 |
| Marketing and Distributive Education | 1,383 | 72 | 265 | 460 | 585 | 1 | 0 |
| Occupational Home Economics Education | 3,457 | 165 | 970 | 1,180 | 1,133 | 9 | 0 |
| Trade and Industrial Education | 8,712 | 1,258 | 2,679 | 2,570 | 2,205 | 0 | 0 |
| Not Elsewhere Classified | 1,922 | 1 | 45 | 222 | 1,652 | 2 | 0 |

The majority of the ninth grade enrollments in secondary programs, 58.9%, was found in the high schools, compared to 41.1% in the AVTSs. On the other hand, the AVTSs had the majority of the enrollments in grades 10-12, 58.8%, compared to 41.2% in high schools. At the AVTSs, trade and industrial education programs attracted the largest percentage of 12th grade students, 63.3%. At high schools, 12th grade enrollments were greatest in business education, 42.2%.

TABLE 5
 SPECIAL POPULATIONS ENROLLMENTS
 AS A PERCENT OF SECONDARY ENROLLMENTS
 AVTS AND HIGH SCHOOL
 2003-04

| | TOTAL | | AVTS | | HIGH SCHOOL | |
|---|---------------|-------------|---------------|-------------|---------------|-------------|
| | NUMBER | % | NUMBER | % | NUMBER | % |
| SPECIAL POPULATIONS (UNDUPLICATED) | 50,765 | 52.7 | 31,487 | 57.1 | 19,278 | 46.7 |
| Disabled | 19,533 | 20.3 | 14,754 | 26.8 | 4,779 | 11.6 |
| Displaced homemaker | 17 | 0.0 | 15 | 0.0 | 2 | 0.0 |
| Economically disadvantaged | 24,422 | 25.3 | 13,719 | 24.9 | 10,703 | 25.9 |
| Educationally disadvantaged | 22,490 | 23.3 | 13,494 | 24.5 | 8,996 | 21.8 |
| Gifted | 898 | 0.9 | 124 | 0.2 | 774 | 1.9 |
| Limited English proficiency | 1,408 | 1.5 | 558 | 1.0 | 850 | 2.1 |
| Nontraditional | 3,130 | 3.2 | 1,869 | 3.4 | 1,261 | 3.1 |
| Single parent | 1,374 | 1.4 | 849 | 1.5 | 525 | 1.3 |

Note: A student may be counted in more than one special populations category. Unduplicated totals reflect enrollees with at least one special populations category reported.

As a percent of statewide enrollments (96,388), the special population groups reported most frequently were economically disadvantaged (25.3%), educationally disadvantaged (23.3%) and disabled (20.3%). Special populations students comprised 57.1% of AVTS enrollments (55,117) and 46.7% of high school enrollments (41,271). At AVTSs, 26.8% of enrollments were disabled and 24.9% were economically disadvantaged. At high schools, 25.9% were economically disadvantaged and 21.8% were educationally disadvantaged.

TABLE 6
OFF-CAMPUS LEARNING COMPONENT ENROLLMENTS IN SECONDARY PROGRAMS BY GRADE
AVTS AND HIGH SCHOOL
2003-04

| | TOTAL | GRADE 9 | GRADE 10 | GRADE 11 | GRADE 12 | UNGRADED | ADULTS IN SECONDARY PROGRAMS |
|--------------------------------------|---------------|--------------|--------------|--------------|--------------|----------|------------------------------------|
| TOTAL | 17,882 | 1,323 | 2,771 | 4,356 | 9,355 | 9 | 68 |
| AVTS | 9,731 | 483 | 1,415 | 2,317 | 5,442 | 6 | 68 |
| Community/Job Exploration Experience | 3,281 | 179 | 606 | 1,007 | 1,461 | 5 | 23 |
| Co-op Work Experience | 2,420 | 0 | 4 | 235 | 2,150 | 0 | 31 |
| Internship | 766 | 0 | 44 | 142 | 577 | 0 | 3 |
| Registered Apprenticeship | 25 | 0 | 0 | 1 | 24 | 0 | 0 |
| School Sponsored Enterprise | 3,278 | 331 | 673 | 908 | 1,326 | 0 | 40 |
| Supervised Agriculture Experience | 522 | 0 | 203 | 170 | 149 | 0 | 0 |
| Work Based | 1,337 | 2 | 64 | 190 | 1,056 | 1 | 24 |
| HIGH SCHOOL | 8,151 | 840 | 1,356 | 2,039 | 3,913 | 3 | 0 |
| Community/Job Exploration Experience | 1,532 | 126 | 297 | 499 | 608 | 2 | 0 |
| Co-op Work Experience | 671 | 0 | 7 | 48 | 616 | 0 | 0 |
| Internship | 714 | 6 | 273 | 181 | 254 | 0 | 0 |
| Registered Apprenticeship | 8 | 0 | 0 | 0 | 8 | 0 | 0 |
| School Sponsored Enterprise | 808 | 64 | 183 | 322 | 238 | 1 | 0 |
| Supervised Agriculture Experience | 2,026 | 656 | 480 | 498 | 392 | 0 | 0 |
| Work Based | 3,263 | 8 | 214 | 673 | 2,366 | 2 | 0 |

Note: A student may be counted in more than one off-campus learning component. Totals reflect enrollees with at least one off-campus learning component.

At AVTSs, 32.3% of the 12th grade enrollees participated in an off-campus learning component compared to 31.3% at high schools. From the prior year, this represented a 0.8 percentage point decrease at AVTSs and an increase of 4.2 percentage points at high schools.

TABLE 7
 COMPLETION RATES OF SECONDARY PROGRAMS BY PROGRAM AREA
 AVTS AND HIGH SCHOOL
 CLASS OF 2004

| | TOTAL | AVTS | HIGH SCHOOL |
|---------------------------------------|-------------|-------------|-------------|
| TOTAL | 55.7 | 70.9 | 39.0 |
| Agriculture Education | 51.2 | 69.1 | 43.4 |
| Business Education | 35.3 | 65.5 | 30.0 |
| Health Occupations Education | 63.5 | 75.7 | 37.9 |
| Marketing and Distributive Education | 39.5 | 66.5 | 28.4 |
| Occupational Home Economics Education | 58.0 | 72.4 | 38.8 |
| Trade and Industrial Education | 64.0 | 70.4 | 39.6 |
| Not Elsewhere Classified | 78.5 | 75.8 | 79.8 |

The completion rate for the class of 2004 in secondary programs was 55.7%. At AVTSs, the rate achieved was 70.9%; while at high schools, the rate was 39.0%. The AVTSs had a higher completion rate than high schools in all program areas except “not elsewhere classified.”

The “not elsewhere classified” program area had the highest completion rate within both AVTS and high school categories, 75.8% and 79.8% respectively. Health occupations education had the second highest rate of completion within AVTSs (75.7%); while within high schools agriculture education had the second highest rate (43.4%). The lowest AVTS program area completion rate (65.5%) occurred for business education, while marketing and distributive education had the lowest rate (28.4%) for high schools.

TABLE 8
 COMPLETERS OF SECONDARY PROGRAMS
 AVTS AND HIGH SCHOOL
 1999-00 AND 2003-04

| | 1999-00 | | | | 2003-04 | | | |
|---------------------------------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| | AVTS | | High School | | AVTS | | High School | |
| | Number | % | Number | % | Number | % | Number | % |
| TOTAL | 12,310 | 100.0 | 6,438 | 100.0 | 13,709 | 100.0 | 6,650 | 100.0 |
| Agriculture Education | 411 | 3.3 | 596 | 9.2 | 469 | 3.4 | 675 | 10.1 |
| Business Education | 568 | 4.6 | 2,238 | 34.8 | 894 | 6.5 | 2,262 | 34.0 |
| Health Occupations Education | 980 | 8.0 | 353 | 5.5 | 1,287 | 9.4 | 300 | 4.5 |
| Marketing and Distributive Education | 381 | 3.1 | 384 | 6.0 | 228 | 1.7 | 238 | 3.6 |
| Occupational Home Economics Education | 1,450 | 11.8 | 437 | 6.8 | 1,476 | 10.8 | 582 | 8.8 |
| Trade and Industrial Education | 8,009 | 65.1 | 1,257 | 19.5 | 8,760 | 63.9 | 1,245 | 18.7 |
| Not Elsewhere Classified | 511 | 4.1 | 1,173 | 18.2 | 595 | 4.3 | 1,348 | 20.3 |

Overall, completers of secondary programs increased 8.6% from a total of 18,748 in 1999-00 to 20,359 in 2003-04. AVTSs experienced a 11.4% increase while high schools recorded a 3.3% increase.

Among AVTS programs, percentage gains were exhibited in business education (57.4%), health occupations education (31.3%), “not elsewhere classified” (16.4%), agriculture education (14.1%), trade and industrial education (9.4%) and occupational home economics education (1.8%). The number of completers decreased by 40.2% within AVTS marketing and distributive education programs.

Within high school programs, percentage gains were exhibited in occupational home economics education (33.2%), “not elsewhere classified” (14.9%), agriculture education (13.3%), and business education (1.1%). The high school program areas reflecting percentage losses were marketing and distributive education (-38.0%), health occupations education (-15.0%) and trade and industrial education (-1.0%).

TABLE 9

SELECTED ADVANCED ACADEMIC COURSES PASSED
BY PERCENT OF COMPLETERS OF SECONDARY PROGRAMS
1999-00 AND 2003-04

| | TOTAL | | AVTS | | HIGH SCHOOL | |
|------------------------------------|---------------|---------------|---------------|---------------|--------------|--------------|
| | 1999-00 | 2003-04 | 1999-00 | 2003-04 | 1999-00 | 2003-04 |
| COMPLETERS | 18,518 | 20,015 | 12,086 | 13,365 | 6,432 | 6,650 |
| Communications | | | | | | |
| College Prep English | 34.3 | 70.9 | 27.0 | 64.7 | 48.0 | 83.3 |
| Foreign Language II | 20.3 | 22.6 | 12.1 | 13.8 | 35.8 | 40.3 |
| Mathematics | | | | | | |
| Algebra I/IB | 66.6 | 69.8 | 60.3 | 63.9 | 78.4 | 81.8 |
| Algebra II | 36.0 | 43.9 | 30.1 | 36.4 | 47.1 | 59.0 |
| Applied Geometry (CORD) | - | 6.1 | - | 5.9 | - | 6.6 |
| Applied Math II (CORD) | 12.9 | 7.8 | 15.7 | 9.0 | 7.6 | 5.4 |
| Geometry (Analytic) | - | 7.4 | - | 5.6 | - | 11.0 |
| Integrated Math I | - | 12.9 | - | 13.0 | - | 12.7 |
| Plane & Solid Geometry | 40.1 | 31.9 | 34.0 | 27.9 | 51.7 | 39.9 |
| Trigonometry | 9.0 | 10.4 | 6.6 | 6.9 | 13.3 | 17.6 |
| Science | | | | | | |
| Applied Biology/Chemistry I (CORD) | 12.7 | 13.1 | 13.3 | 14.0 | 11.6 | 11.4 |
| Biology I | 64.0 | 68.4 | 58.9 | 62.6 | 73.7 | 80.2 |
| Chemistry I | 27.1 | 32.0 | 19.0 | 23.2 | 42.3 | 49.7 |
| Physics I | 7.5 | 11.4 | 4.4 | 7.3 | 13.2 | 19.6 |

- Note: 1. Does not include adults who completed secondary programs.
2. Completers may pass more than one of these courses.
3. A dash (-) indicates "not applicable."

For the purpose of the secondary career and technical education (CTE) student data collection effort, "College Prep English" is defined as any senior high school-level English course excluding any "remedial" English courses. The Implementation of this definition starting in the 2002-03 data collection caused a significant increase in the reporting of College Prep English. This definition was implemented to standardize the reporting of College Prep English within the CTE student data collection. The most frequently completed course during 2003-04 was College Prep English (70.9%).

Beginning in 2002-03, Applied Geometry (CORD) and Analytic Geometry were added to the list of courses reported within the student data collection. Both of these courses are included above to potentially account for the decrease in the percentage of completers that were reported as passing the equivalent of Plane and Solid Geometry.

The most frequently completed course in mathematics during 2003-04 was Algebra I/IB (69.8%). Among science courses, the largest percentage of completers passed Biology I (68.4%).

TABLE 10

TECH PREP ENROLLMENTS IN SECONDARY PROGRAMS
AVTS AND HIGH SCHOOL
1999-00 AND 2003-04

| | TOTAL | | AVTS | | HIGH SCHOOL | |
|---------------------------------------|--------------|---------------|--------------|--------------|--------------|--------------|
| | 1999-00 | 2003-04 | 1999-00 | 2003-04 | 1999-00 | 2003-04 |
| TOTAL | 9,406 | 17,639 | 3,613 | 7,995 | 5,793 | 9,644 |
| Agriculture Education | 214 | 356 | 59 | 162 | 155 | 194 |
| Business Education | 3,631 | 5,869 | 470 | 1,186 | 3,161 | 4,683 |
| Health Occupations Education | 807 | 1,606 | 451 | 1,036 | 356 | 570 |
| Marketing and Distributive Education | 113 | 185 | 55 | 48 | 58 | 137 |
| Occupational Home Economics Education | 873 | 1,610 | 481 | 846 | 392 | 764 |
| Trade and Industrial Education | 3,768 | 7,966 | 2,097 | 4,670 | 1,671 | 3,296 |
| Not Elsewhere Classified | 0 | 47 | 0 | 47 | - | - |

Note: A dash (-) indicates "not applicable."

Overall, tech prep enrollments increased 87.5% from a total of 9,406 in 1999-00 to 17,639 in 2003-04. AVTSs had the largest increase with 121.3% while high schools recorded a 66.5% increase.

During 2003-04, there were 2,452 approved secondary programs with enrollments of 96,388. Of these, 667 programs had a tech prep plan of delivery; 267 were at high schools and 400 were at AVTSs. Tech prep enrollments accounted for 18.3% of all enrollments.

TABLE 11
TECH PREP AND NON-TECH PREP COMPLETION RATES OF SECONDARY PROGRAMS
AVTS AND HIGH SCHOOL
CLASS OF 2004

| | AVTS | | HIGH SCHOOL | |
|---------------------------------------|-------------|---------------|-------------|---------------|
| | TECH PREP | NON-TECH PREP | TECH PREP | NON-TECH PREP |
| TOTAL | 78.7 | 69.3 | 36.7 | 39.6 |
| Agriculture Education | 93.1 | 66.8 | 54.2 | 43.0 |
| Business Education | 72.8 | 61.7 | 31.9 | 29.3 |
| Health Occupations Education | 86.9 | 71.1 | 50.6 | 34.3 |
| Marketing and Distributive Education | 82.4 | 65.6 | 35.9 | 28.1 |
| Occupational Home Economics Education | 77.6 | 71.4 | 53.2 | 34.0 |
| Trade and Industrial Education | 79.0 | 69.0 | 36.3 | 41.9 |
| Not Elsewhere Classified | 39.7 | 78.9 | - | 79.8 |

Note: A dash (-) indicates "not applicable."

AVTS tech prep enrollees completed their programs at a greater rate, 78.7%, than their non-tech prep counterparts, 69.3%. At high schools, 36.7% of the tech prep enrollees completed compared to 39.6% of the non-tech prep enrollees.

At AVTSs, agriculture education had the highest completion rate among tech prep completers, 93.1%, and "not elsewhere classified" had the highest rate among non-tech prep completers, 78.9%. At high schools, the highest completion rate among tech prep completers was in agriculture education, 54.2%; among non-tech prep completers, it was in "not elsewhere classified," 79.8%.

TABLE 12

STATUS OF 2002-03 COMPLETERS OF SECONDARY PROGRAMS
AVTS AND HIGH SCHOOL
2004 SURVEY

| | 2002-03 COMPLETERS SURVEYED | PERCENT OF RESPONDENTS | | | | | | |
|---------------------------------------|-----------------------------------|------------------------------------|---|---------------------|-------------------------------------|-------------|------------|----------------|
| | | Gainfully Placed | | | | | Unemployed | |
| | | Employed Related to Training | Employed Not Related to Training | Military Service | Pursuing Additional Education | Total | Looking | Not Looking |
| TOTAL | 18,700 | 22.8 | 24.0 | 3.9 | 40.7 | 91.5 | 6.6 | 1.9 |
| AVTS | 12,876 | 26.5 | 24.7 | 4.0 | 35.1 | 90.2 | 7.5 | 2.3 |
| High School | 5,824 | 14.4 | 22.5 | 3.8 | 53.7 | 94.3 | 4.6 | 1.1 |
| AGRICULTURE EDUCATION | 1,161 | 21.7 | 25.4 | 3.9 | 39.4 | 90.4 | 7.2 | 2.4 |
| AVTS | 506 | 20.2 | 28.7 | 2.3 | 33.7 | 84.9 | 10.5 | 4.7 |
| High School | 655 | 22.8 | 23.0 | 5.1 | 43.5 | 94.4 | 4.8 | 0.8 |
| BUSINESS EDUCATION | 2,637 | 6.9 | 22.7 | 2.7 | 60.0 | 92.3 | 6.0 | 1.7 |
| AVTS | 917 | 9.0 | 20.8 | 3.7 | 55.7 | 89.3 | 8.1 | 2.6 |
| High School | 1,720 | 5.7 | 23.7 | 2.1 | 62.5 | 94.0 | 4.9 | 1.1 |
| HEALTH OCCUPATIONS EDUCATION | 1,308 | 22.1 | 16.7 | 1.2 | 52.6 | 92.6 | 4.7 | 2.7 |
| AVTS | 1,113 | 22.9 | 17.3 | 1.2 | 50.4 | 91.9 | 5.2 | 2.9 |
| High School | 195 | 17.2 | 12.6 | 1.1 | 66.7 | 97.7 | 1.1 | 1.1 |
| MARKETING AND DISTRIBUTIVE EDUCATION | 520 | 16.4 | 17.8 | 3.3 | 52.1 | 89.7 | 6.6 | 3.8 |
| AVTS | 263 | 22.0 | 22.8 | 3.9 | 35.4 | 84.3 | 10.2 | 5.5 |
| High School | 257 | 8.1 | 10.5 | 2.3 | 76.7 | 97.7 | 1.2 | 1.2 |
| OCCUPATIONAL HOME ECONOMICS EDUCATION | 1,842 | 21.5 | 19.2 | 2.8 | 45.6 | 89.2 | 7.9 | 2.9 |
| AVTS | 1,357 | 25.2 | 20.1 | 3.4 | 38.8 | 87.5 | 8.9 | 3.6 |
| High School | 485 | 11.9 | 17.1 | 1.2 | 63.1 | 93.3 | 5.6 | 1.2 |

TABLE 12

STATUS OF 2002-03 COMPLETERS OF SECONDARY PROGRAMS
AVTS AND HIGH SCHOOL
2004 SURVEY

| | 2002-03 COMPLETERS SURVEYED | PERCENT OF RESPONDENTS | | | | | | |
|--------------------------------|-----------------------------------|------------------------------------|---|---------------------|-------------------------------------|-------|------------|----------------|
| | | Gainfully Placed | | | | | Unemployed | |
| | | Employed Related to Training | Employed Not Related to Training | Military Service | Pursuing Additional Education | Total | Looking | Not Looking |
| TRADE AND INDUSTRIAL EDUCATION | 9,324 | 28.1 | 26.7 | 4.8 | 31.3 | 90.9 | 7.3 | 1.8 |
| AVTS | 8,126 | 30.2 | 27.1 | 4.6 | 28.9 | 90.7 | 7.4 | 1.9 |
| High School | 1,198 | 12.1 | 23.8 | 6.8 | 49.5 | 92.2 | 6.8 | 1.0 |
| NOT ELSEWHERE CLASSIFIED | 1,908 | 23.2 | 23.5 | 4.4 | 44.6 | 95.8 | 3.2 | 1.0 |
| AVTS | 594 | 21.7 | 20.2 | 4.4 | 48.9 | 95.2 | 4.4 | 0.4 |
| High School | 1,314 | 23.9 | 24.9 | 4.5 | 42.7 | 96.0 | 2.7 | 1.3 |

Note: 1. A student giving multiple responses is counted in only one of the gainfully placed categories. A student who responded as pursuing additional education, as well as employed, is counted as pursuing additional education if the employment is part-time (less than 35 hours per week), and as employed if the employment is full-time (35 hours or more per week). A student who is both pursuing additional education and military service is counted only in the military service category.

2. Totals may not add up to 100% due to rounding.

Gainful placement was achieved by 91.5% of completers. Overall, 46.8% were employed; 51.2% of the AVTS completers compared to 36.9% of the high school completers. In contrast, high school completers pursued additional education at a greater rate, 53.7%, than their AVTS counterparts, 35.1%.

Trade and industrial education, at 54.8%, had the highest "employed" rate of all program areas. However, the high school rate was 35.9% compared to the AVTS rate of 57.3%. In contrast, the high school "pursuing additional education" rate of 49.5% was higher than the AVTS rate of 28.9%.

The highest rate of completers looking for employment, 7.9%, was in occupational home economics education. The lowest, 3.2%, was in the "not elsewhere classified" program area category.

APPENDIX A

SECONDARY PROGRAMS AND ENROLLMENTS
AVTS AND HIGH SCHOOL
2003-04

| | TOTAL | | AVTS | | HIGH SCHOOL | |
|------------------------------|--------------|---------------|--------------|---------------|--------------|---------------|
| | Programs | Enrollments | Programs | Enrollments | Programs | Enrollments |
| TOTAL | 2,452 | 96,388 | 1,411 | 55,117 | 1,041 | 41,271 |
| AGRICULTURE EDUCATION | 182 | 7,885 | 53 | 2,168 | 129 | 5,717 |
| Ag Mechanization, General | 17 | 766 | 2 | 55 | 15 | 711 |
| Ag Oper/Related Sci, Oth | 1 | 16 | 0 | 0 | 1 | 16 |
| Ag Prod Operations, Gen | 75 | 3,205 | 9 | 286 | 66 | 2,919 |
| Agric/Nat Resources Tech | 6 | 151 | 1 | 1 | 5 | 150 |
| Agriculture, General | 29 | 2,102 | 4 | 678 | 25 | 1,424 |
| Applied Hort Oper Gen | 46 | 1,468 | 32 | 1,019 | 14 | 449 |
| Forestry Technology | 2 | 37 | 1 | 13 | 1 | 24 |
| Forestry, Other | 1 | 20 | 1 | 20 | 0 | 0 |
| Natl Resource Mgt/Pol, Ot | 5 | 120 | 3 | 96 | 2 | 24 |
| BUSINESS EDUCATION | 559 | 21,529 | 96 | 3,530 | 463 | 17,999 |
| Accounting Technician | 158 | 4,036 | 6 | 346 | 152 | 3,690 |
| Adm Asst/Secr Sci, Gen | 93 | 2,588 | 9 | 165 | 84 | 2,423 |
| Business/Info/Comp Tech | 45 | 1,827 | 8 | 687 | 37 | 1,140 |
| Computer Network/Telecom | 52 | 2,220 | 26 | 785 | 26 | 1,435 |
| Entrepreneurial Studies | 1 | 30 | 0 | 0 | 1 | 30 |
| Gen Office Occ/Clerical | 156 | 9,377 | 9 | 513 | 147 | 8,864 |
| Logistics/Materials Mgmt | 9 | 254 | 9 | 254 | 0 | 0 |
| Mgmt Info Systems, Gen | 45 | 1,197 | 29 | 780 | 16 | 417 |

APPENDIX A

SECONDARY PROGRAMS AND ENROLLMENTS
AVTS AND HIGH SCHOOL
2003-04

| | TOTAL | | AVTS | | HIGH SCHOOL | |
|---|------------|--------------|------------|--------------|-------------|--------------|
| | Programs | Enrollments | Programs | Enrollments | Programs | Enrollments |
| HEALTH OCCUPATIONS EDUCATION | 141 | 6,537 | 105 | 4,456 | 36 | 2,081 |
| Biotechnology | 1 | 21 | 1 | 21 | 0 | 0 |
| Clinical/Med Lab Asst | 3 | 74 | 2 | 55 | 1 | 19 |
| Dental Assistant | 10 | 230 | 9 | 195 | 1 | 35 |
| Health Care Technology | 12 | 459 | 5 | 238 | 7 | 221 |
| Health Prof/Rel Sci, Oth | 27 | 1,842 | 16 | 652 | 11 | 1,190 |
| Health/Med Assts, Other | 76 | 3,597 | 65 | 3,103 | 11 | 494 |
| Medical Records Tech | 3 | 94 | 2 | 50 | 1 | 44 |
| Medical/Clinical Asst | 5 | 132 | 4 | 122 | 1 | 10 |
| Nurse Assistant/Aide | 3 | 68 | 0 | 0 | 3 | 68 |
| Veterinary Asst | 1 | 20 | 1 | 20 | 0 | 0 |
| MARKETING & DISTRIBUTIVE EDUCATION | 65 | 2,248 | 33 | 865 | 32 | 1,383 |
| Sales/Distrib/Mrktng Gen | 53 | 1,823 | 26 | 708 | 27 | 1,115 |
| Travel Services Mrktng | 11 | 398 | 6 | 130 | 5 | 268 |
| Vehicle/Vehicle Parts Mkt | 1 | 27 | 1 | 27 | 0 | 0 |
| OCCUPATIONAL HOME ECONOMICS EDUCATION | 215 | 9,529 | 133 | 6,072 | 82 | 3,457 |
| Apparel/Textile Mrkt Mgt | 5 | 255 | 5 | 255 | 0 | 0 |
| Baker/Pastry Chef | 14 | 497 | 12 | 452 | 2 | 45 |
| Child Care/Supprt Srv Mgt | 69 | 2,669 | 31 | 1,162 | 38 | 1,507 |
| Consumer Service Tech | 8 | 179 | 3 | 4 | 5 | 175 |
| Family/Consumer Sci, Oth | 3 | 89 | 2 | 74 | 1 | 15 |

APPENDIX A

SECONDARY PROGRAMS AND ENROLLMENTS
AVTS AND HIGH SCHOOL
2003-04

| | TOTAL | | AVTS | | HIGH SCHOOL | |
|---|--------------|---------------|------------|---------------|-------------|--------------|
| | Programs | Enrollments | Programs | Enrollments | Programs | Enrollments |
| Home Furnish/Equip Instal | 1 | 29 | 1 | 29 | 0 | 0 |
| Housing/Human Environ Oth | 1 | 22 | 1 | 22 | 0 | 0 |
| Human Dev/Fam Studies Oth | 1 | 44 | 1 | 44 | 0 | 0 |
| Institutional Food Worker | 113 | 5,745 | 77 | 4,030 | 36 | 1,715 |
| TRADE & INDUSTRIAL EDUCATION | 1,190 | 44,452 | 953 | 35,740 | 237 | 8,712 |
| Aircraft Powerplant Tech | 2 | 23 | 2 | 23 | 0 | 0 |
| Appliance Install/Repair | 2 | 60 | 1 | 26 | 1 | 34 |
| Architect Draft/CAD/CADD | 7 | 183 | 4 | 100 | 3 | 83 |
| Autobody Repair Tech | 76 | 3,039 | 67 | 2,701 | 9 | 338 |
| Automotive Mechanic Tech | 98 | 5,075 | 76 | 4,108 | 22 | 967 |
| Bldg/Constr Finish, Oth | 1 | 24 | 1 | 24 | 0 | 0 |
| Bldg/Property Maint/Mgr | 36 | 1,074 | 26 | 781 | 10 | 293 |
| Cabinetmaking/Millwork | 15 | 330 | 11 | 318 | 4 | 12 |
| Carpentry/Carpenter | 69 | 2,913 | 61 | 2,599 | 8 | 314 |
| Civ Draft/Enginr CAD/CADD | 1 | 39 | 1 | 39 | 0 | 0 |
| Commercial Photography | 2 | 74 | 2 | 74 | 0 | 0 |
| Commercial/Advertisng Art | 39 | 1,571 | 32 | 1,314 | 7 | 257 |
| Communications Technology | 8 | 574 | 0 | 0 | 8 | 574 |
| Computer Programming, Gen | 28 | 980 | 25 | 884 | 3 | 96 |
| Computer Technology | 30 | 714 | 17 | 493 | 13 | 221 |
| Construction Technology | 11 | 180 | 4 | 46 | 7 | 134 |
| Construction Trades, Oth | 36 | 1,296 | 21 | 837 | 15 | 459 |
| Cosmetology, General | 88 | 5,702 | 74 | 5,151 | 14 | 551 |
| Criminal Justice/Police | 18 | 757 | 15 | 545 | 3 | 212 |
| Diesel Mechanics Tech | 27 | 927 | 27 | 927 | 0 | 0 |

APPENDIX A

SECONDARY PROGRAMS AND ENROLLMENTS
AVTS AND HIGH SCHOOL
2003-04

| | TOTAL | | AVTS | | HIGH SCHOOL | |
|---------------------------|----------|-------------|----------|-------------|-------------|-------------|
| | Programs | Enrollments | Programs | Enrollments | Programs | Enrollments |
| Drafting/Design Tech, Gen | 57 | 1,754 | 41 | 1,139 | 16 | 615 |
| Elec/Electronic Tech, Oth | 7 | 247 | 4 | 146 | 3 | 101 |
| Elec/Pwr Trans Instal Oth | 54 | 1,731 | 50 | 1,645 | 4 | 86 |
| Electromechanical Tech | 8 | 228 | 7 | 208 | 1 | 20 |
| Electronic/Comm Eng Tech | 56 | 1,699 | 50 | 1,310 | 6 | 389 |
| Electronics Repair, Other | 3 | 62 | 2 | 50 | 1 | 12 |
| Engineering Tech, Oth | 15 | 378 | 13 | 286 | 2 | 92 |
| Engineering Technology | 29 | 911 | 11 | 290 | 18 | 621 |
| Envrnmntl Engineering Tec | 1 | 94 | 0 | 0 | 1 | 94 |
| Film/Video/Cinema/Prod | 13 | 585 | 6 | 212 | 7 | 373 |
| Graphic Communication Oth | 47 | 1,833 | 36 | 1,289 | 11 | 544 |
| Heating, AC, Refrig Mech | 39 | 1,065 | 37 | 1,015 | 2 | 50 |
| Heavy Equip Maint Tech | 4 | 152 | 4 | 152 | 0 | 0 |
| Indust Prod Tech, Other | 1 | 67 | 1 | 67 | 0 | 0 |
| Lineworker | 1 | 52 | 1 | 52 | 0 | 0 |
| Machine Shop Assistant | 3 | 96 | 3 | 96 | 0 | 0 |
| Machine Tool Tech | 56 | 1,429 | 50 | 1,299 | 6 | 130 |
| Mason/Masonry | 35 | 1,009 | 33 | 994 | 2 | 15 |
| Meatcutter | 2 | 58 | 2 | 58 | 0 | 0 |
| Mech/Install/Repr Tech | 4 | 54 | 3 | 31 | 1 | 23 |
| Painter/Wall Coverer | 5 | 175 | 5 | 175 | 0 | 0 |
| Petroleum Technology | 1 | 52 | 1 | 52 | 0 | 0 |
| Pipefitting/Steamfitting | 23 | 594 | 22 | 584 | 1 | 10 |
| Precision Metal Wrkrs,oth | 8 | 229 | 6 | 137 | 2 | 92 |
| Precision Prod, Other | 1 | 12 | 0 | 0 | 1 | 12 |

APPENDIX A

SECONDARY PROGRAMS AND ENROLLMENTS
AVTS AND HIGH SCHOOL
2003-04

| | TOTAL | | AVTS | | HIGH SCHOOL | |
|---------------------------------|------------|--------------|-----------|--------------|-------------|--------------|
| | Programs | Enrollments | Programs | Enrollments | Programs | Enrollments |
| Production Indust Tech | 17 | 663 | 5 | 142 | 12 | 521 |
| Protective Serv, Other | 27 | 995 | 25 | 943 | 2 | 52 |
| Security/Loss Prevention | 2 | 53 | 2 | 53 | 0 | 0 |
| Sheet Metal Tech | 1 | 14 | 1 | 14 | 0 | 0 |
| Tool/Die Maker/Tech | 4 | 85 | 3 | 65 | 1 | 20 |
| Upholstery/Upholsterer | 1 | 27 | 1 | 27 | 0 | 0 |
| Vehicle Maint Tech, Other | 17 | 647 | 13 | 530 | 4 | 117 |
| Welding Technology/Welder | 54 | 1,867 | 48 | 1,689 | 6 | 178 |
| NOT ELSEWHERE CLASSIFIED | 100 | 4,208 | 38 | 2,286 | 62 | 1,922 |
| Career Expl/Awareness Skl | 16 | 1,418 | 15 | 1,414 | 1 | 4 |
| Diversified Occupations | 78 | 2,610 | 17 | 692 | 61 | 1,918 |
| Vocational Educ, Other | 6 | 180 | 6 | 180 | 0 | 0 |

APPENDIX B

AVTS ENROLLMENTS AND COMPLETERS OF SECONDARY PROGRAMS BY SCHOOL
2003-04

| | TOTAL ENROLLMENT | MALE | FEMALE | GRADE 9 | GRADE 10 | GRADE 11 | GRADE 12 | UNGRADED | ADULTS IN SECONDARY PROGRAMS | COMPLETERS |
|--|---------------------|---------------|---------------|--------------|---------------|---------------|---------------|-----------|------------------------------------|---------------|
| TOTAL | 55,117 | 34,049 | 21,068 | 4,204 | 15,998 | 17,492 | 16,825 | 46 | 552 | 13,709 |
| A W Beattie AVTS | 759 | 414 | 345 | 1 | 227 | 291 | 234 | 0 | 6 | 201 |
| Admiral Peary AVTS | 570 | 393 | 177 | 0 | 137 | 225 | 208 | 0 | 0 | 166 |
| Beaver County AVTS | 744 | 475 | 269 | 0 | 122 | 322 | 285 | 0 | 15 | 222 |
| Bedford County Technical Center | 982 | 538 | 444 | 272 | 237 | 235 | 237 | 0 | 1 | 199 |
| Berks CTC-East Campus | 1,019 | 669 | 350 | 61 | 366 | 305 | 256 | 0 | 31 | 254 |
| Berks CTC-West Campus | 812 | 489 | 323 | 0 | 281 | 273 | 223 | 0 | 35 | 215 |
| Bethlehem AVTS | 1,553 | 1,004 | 549 | 231 | 503 | 404 | 402 | 0 | 13 | 300 |
| Bok Edw W Technical High School | 383 | 181 | 202 | 0 | 8 | 185 | 190 | 0 | 0 | 157 |
| Bucks County Technical High School | 1,389 | 892 | 497 | 360 | 352 | 340 | 332 | 5 | 0 | 303 |
| Butler County AVTS | 927 | 589 | 338 | 0 | 88 | 442 | 392 | 5 | 0 | 256 |
| Carbon County AVTS | 361 | 216 | 145 | 0 | 142 | 123 | 96 | 0 | 0 | 72 |
| Career Institute of Technology | 755 | 495 | 260 | 19 | 251 | 278 | 207 | 0 | 0 | 179 |
| Center for Arts & Tech-Brandywine | 704 | 431 | 273 | 22 | 212 | 276 | 192 | 0 | 2 | 187 |
| Center for Arts & Tech-Pickering | 339 | 198 | 141 | 0 | 100 | 119 | 113 | 6 | 1 | 56 |
| Center for Technical Studies (Mont. Co.) | 806 | 463 | 343 | 1 | 269 | 303 | 233 | 0 | 0 | 106 |
| Central PA Inst. of Sci. & Technology | 642 | 425 | 217 | 11 | 218 | 187 | 186 | 1 | 39 | 198 |
| Central Westmoreland CTC | 1,243 | 844 | 399 | 144 | 417 | 356 | 318 | 0 | 8 | 232 |
| Clarion County Career Center | 360 | 227 | 133 | 3 | 124 | 103 | 127 | 0 | 3 | 85 |
| Clearfield County CTC | 462 | 288 | 174 | 11 | 49 | 174 | 214 | 1 | 13 | 172 |
| Columbia-Montour AVTS | 699 | 389 | 310 | 175 | 189 | 166 | 169 | 0 | 0 | 159 |
| Crawford County AVTS | 579 | 344 | 235 | 0 | 94 | 238 | 247 | 0 | 0 | 191 |
| CTC of Lackawanna County | 828 | 549 | 279 | 0 | 367 | 261 | 196 | 1 | 3 | 163 |
| Cumberland-Perry AVTS | 1,050 | 687 | 363 | 0 | 386 | 375 | 289 | 0 | 0 | 216 |
| Dauphin County AVTS | 944 | 592 | 352 | 244 | 242 | 250 | 207 | 0 | 1 | 183 |
| Delaware Co. Technical HS-Aston | 479 | 357 | 122 | 24 | 113 | 191 | 151 | 0 | 0 | 137 |

APPENDIX B

AVTS ENROLLMENTS AND COMPLETERS OF SECONDARY PROGRAMS BY SCHOOL
2003-04

| | TOTAL ENROLLMENT | MALE | FEMALE | GRADE 9 | GRADE 10 | GRADE 11 | GRADE 12 | UNGRADED | ADULTS IN SECONDARY PROGRAMS | COMPLETERS |
|--------------------------------------|---------------------|-------|--------|------------|-------------|-------------|-------------|----------|------------------------------------|------------|
| Delaware Co. Technical HS-Folcroft | 582 | 306 | 276 | 4 | 103 | 251 | 224 | 0 | 0 | 217 |
| Dobbins AVT HS | 1,121 | 465 | 656 | 0 | 428 | 379 | 314 | 0 | 0 | 221 |
| Eastern Center for Arts & Technology | 534 | 363 | 171 | 0 | 11 | 241 | 271 | 0 | 11 | 233 |
| Eastern Westmoreland CTC | 527 | 325 | 202 | 0 | 212 | 163 | 152 | 0 | 0 | 99 |
| Erie County Technical School | 871 | 592 | 279 | 0 | 280 | 294 | 297 | 0 | 0 | 226 |
| Fayette County AVTS | 620 | 421 | 199 | 190 | 137 | 171 | 122 | 0 | 0 | 104 |
| Forbes Road CTC | 861 | 503 | 358 | 0 | 326 | 300 | 224 | 0 | 11 | 192 |
| Franklin County CTC | 904 | 576 | 328 | 0 | 285 | 331 | 287 | 1 | 0 | 226 |
| Fulton County AVTS | 466 | 237 | 229 | 148 | 124 | 114 | 80 | 0 | 0 | 59 |
| Greater Altoona CTC | 1,075 | 708 | 367 | 69 | 335 | 340 | 275 | 1 | 55 | 290 |
| Greater Johnstown AVTS | 338 | 181 | 157 | 5 | 92 | 121 | 120 | 0 | 0 | 89 |
| Greene County AVTS | 373 | 228 | 145 | 2 | 148 | 114 | 97 | 0 | 12 | 65 |
| Hazleton Area Career Center | 940 | 545 | 395 | 0 | 271 | 348 | 321 | 0 | 0 | 199 |
| Huntingdon Co CTC | 410 | 241 | 169 | 21 | 136 | 127 | 105 | 0 | 21 | 72 |
| Indiana County Technology Center | 441 | 300 | 141 | 39 | 155 | 149 | 97 | 0 | 1 | 85 |
| Jefferson County-DuBois AVTS | 408 | 249 | 159 | 0 | 146 | 141 | 119 | 0 | 2 | 93 |
| Keystone Central AVTS | 1,131 | 660 | 471 | 394 | 238 | 225 | 267 | 0 | 7 | 254 |
| Lancaster County CTC-Brownstown | 506 | 346 | 160 | 2 | 11 | 100 | 349 | 0 | 44 | 322 |
| Lancaster County CTC-Mt Joy | 456 | 285 | 171 | 0 | 47 | 115 | 273 | 0 | 21 | 240 |
| Lancaster County CTC-Willow St | 540 | 309 | 231 | 0 | 43 | 113 | 356 | 0 | 28 | 323 |
| Lawrence County AVTS | 468 | 242 | 226 | 0 | 194 | 144 | 130 | 0 | 0 | 88 |
| Lebanon County CTC | 665 | 436 | 229 | 0 | 45 | 235 | 366 | 0 | 19 | 360 |
| Lehigh Career & Technical Institute | 1,950 | 1,247 | 703 | 107 | 697 | 432 | 692 | 0 | 22 | 523 |
| Lenape Tech | 443 | 244 | 199 | 0 | 0 | 242 | 201 | 0 | 0 | 198 |
| Lycoming CTC | 284 | 200 | 84 | 3 | 118 | 99 | 64 | 0 | 0 | 27 |

APPENDIX B

AVTS ENROLLMENTS AND COMPLETERS OF SECONDARY PROGRAMS BY SCHOOL
2003-04

| | TOTAL ENROLLMENT | MALE | FEMALE | GRADE 9 | GRADE 10 | GRADE 11 | GRADE 12 | UNGRADED | ADULTS IN SECONDARY PROGRAMS | COMPLETERS |
|--------------------------------------|---------------------|------|--------|------------|-------------|-------------|-------------|----------|------------------------------------|------------|
| Mastbaum Jules E AVTS | 743 | 400 | 343 | 0 | 302 | 222 | 219 | 0 | 0 | 154 |
| McKeesport Area Tech Ctr | 773 | 440 | 333 | 252 | 229 | 162 | 130 | 0 | 0 | 86 |
| Mercer County Career Center | 437 | 277 | 160 | 0 | 24 | 204 | 209 | 0 | 0 | 229 |
| Middle Bucks Institute of Technology | 959 | 684 | 275 | 2 | 315 | 313 | 310 | 8 | 11 | 215 |
| Mifflin-Juniata CTC | 465 | 273 | 192 | 8 | 202 | 135 | 118 | 0 | 2 | 104 |
| Mon Valley CTC | 375 | 239 | 136 | 40 | 121 | 129 | 85 | 0 | 0 | 69 |
| Monroe Career & Tech Inst | 1,114 | 693 | 421 | 49 | 308 | 298 | 459 | 0 | 0 | 303 |
| North Fayette County AVTS | 421 | 257 | 164 | 115 | 133 | 96 | 77 | 0 | 0 | 68 |
| North Montco Tech Career Center | 1,262 | 814 | 448 | 304 | 360 | 331 | 266 | 1 | 0 | 230 |
| Northern Tier Career Center | 321 | 204 | 117 | 0 | 11 | 173 | 133 | 0 | 4 | 97 |
| Northern Westmoreland AVTS | 449 | 269 | 180 | 0 | 169 | 169 | 111 | 0 | 0 | 99 |
| Northumberland County AVTS | 357 | 241 | 116 | 0 | 118 | 130 | 109 | 0 | 0 | 83 |
| Parkway West AVTS | 689 | 407 | 282 | 0 | 221 | 243 | 225 | 0 | 0 | 185 |
| Reading-Muhlenberg AVTS | 1,082 | 613 | 469 | 21 | 453 | 341 | 267 | 0 | 0 | 147 |
| Saul W B Agricultural School | 634 | 287 | 347 | 229 | 179 | 123 | 103 | 0 | 0 | 100 |
| Schuylkill Technology Centers-North | 312 | 193 | 119 | 0 | 104 | 80 | 111 | 0 | 17 | 86 |
| Schuylkill Technology Centers-South | 457 | 335 | 122 | 0 | 151 | 172 | 115 | 0 | 19 | 91 |
| Seneca Highlands AVTS | 332 | 207 | 125 | 2 | 121 | 110 | 94 | 0 | 5 | 90 |
| Somerset County Technology Center | 430 | 265 | 165 | 0 | 152 | 136 | 118 | 0 | 24 | 121 |
| Steel Center AVTS | 749 | 484 | 265 | 0 | 262 | 268 | 219 | 0 | 0 | 185 |
| SUN Area CTC | 287 | 196 | 91 | 2 | 14 | 28 | 236 | 0 | 7 | 251 |
| Susquehanna County CTC | 230 | 110 | 120 | 0 | 77 | 70 | 77 | 0 | 6 | 75 |
| Swenson Arts & Technology HS | 445 | 267 | 178 | 0 | 207 | 143 | 95 | 0 | 0 | 51 |
| Upper Bucks County AVTS | 743 | 514 | 229 | 77 | 235 | 246 | 182 | 1 | 2 | 159 |
| Venango Technology Center | 715 | 473 | 242 | 7 | 278 | 231 | 182 | 0 | 17 | 143 |

APPENDIX B

AVTS ENROLLMENTS AND COMPLETERS OF SECONDARY PROGRAMS BY SCHOOL
2003-04

| | TOTAL ENROLLMENT | MALE | FEMALE | GRADE 9 | GRADE 10 | GRADE 11 | GRADE 12 | UNGRADED | ADULTS IN SECONDARY PROGRAMS | COMPLETERS |
|--------------------------------------|---------------------|------|--------|------------|-------------|-------------|-------------|----------|------------------------------------|------------|
| Warren County AVTS | 352 | 263 | 89 | 0 | 110 | 120 | 122 | 0 | 0 | 105 |
| West Side AVTS | 556 | 352 | 204 | 142 | 162 | 122 | 116 | 14 | 0 | 91 |
| Western Area CTC | 553 | 349 | 204 | 0 | 219 | 179 | 145 | 0 | 10 | 135 |
| Western Center for Technical Studies | 400 | 240 | 160 | 0 | 0 | 208 | 191 | 0 | 1 | 171 |
| Wilkes-Barre AVTS | 719 | 450 | 269 | 0 | 263 | 230 | 223 | 1 | 2 | 139 |
| York Co School of Technology | 1,453 | 895 | 558 | 391 | 422 | 369 | 271 | 0 | 0 | 233 |

APPENDIX C

ENROLLMENTS AND COMPLETERS OF SECONDARY PROGRAMS
BY FEDERAL CAREER CLUSTER
AVTS AND HIGH SCHOOL
2003-04

| | ENROLLMENTS | | COMPLETERS | |
|---|---------------|--------------|---------------|--------------|
| | Number | % | Number | % |
| TOTAL | 96,388 | 100.0 | 20,359 | 100.0 |
| AVTS | 55,117 | 57.2 | 13,709 | 67.3 |
| Agriculture and Natural Resources | 2,220 | 4.0 | 475 | 3.5 |
| Architecture and Construction | 8,852 | 16.1 | 2,227 | 16.2 |
| Arts, A/V Technology and Communications | 2,889 | 5.2 | 703 | 5.1 |
| Business and Administration | 1,024 | 1.9 | 285 | 2.1 |
| Health Science | 4,435 | 8.0 | 1,287 | 9.4 |
| Hospitality and Tourism | 4,670 | 8.5 | 1,136 | 8.3 |
| Human Services | 3,412 | 6.2 | 905 | 6.6 |
| Information Technology | 3,809 | 6.9 | 969 | 7.1 |
| Law and Public Safety | 1,541 | 2.8 | 386 | 2.8 |
| Manufacturing | 6,600 | 12.0 | 1,622 | 11.8 |
| Retail or Wholesale Sales and Services | 6,227 | 11.3 | 1,503 | 11.0 |
| Scientific Research and Engineering | 743 | 1.3 | 218 | 1.6 |
| Transportation Distribution and Logistics | 8,695 | 15.8 | 1,993 | 14.5 |
| HIGH SCHOOL | 41,271 | 42.8 | 6,650 | 32.7 |
| Agriculture and Natural Resources | 5,717 | 13.9 | 675 | 10.2 |
| Architecture and Construction | 1,538 | 3.7 | 248 | 3.7 |
| Arts, A/V Technology and Communications | 1,748 | 4.2 | 168 | 2.5 |
| Business and Administration | 15,007 | 36.4 | 1,940 | 29.2 |
| Health Science | 2,081 | 5.0 | 300 | 4.5 |
| Hospitality and Tourism | 2,028 | 4.9 | 194 | 2.9 |
| Human Services | 3,619 | 8.8 | 1,765 | 26.5 |
| Information Technology | 3,309 | 8.0 | 367 | 5.5 |
| Law and Public Safety | 264 | 0.6 | 21 | 0.3 |
| Manufacturing | 2,001 | 4.8 | 313 | 4.7 |
| Retail or Wholesale Sales and Services | 1,723 | 4.2 | 316 | 4.8 |
| Scientific Research and Engineering | 814 | 2.0 | 137 | 2.1 |
| Transportation Distribution and Logistics | 1,422 | 3.4 | 206 | 3.1 |

NOTE: 1. Cosmetology programs now classified within Retail or Wholesale Sales and Services versus Hospitality and Tourism.
2. Graphic communication programs now classified within Arts, A/V Technology and Communications versus Manufacturing.

APPENDIX D

GLOSSARY

ADULTS IN SECONDARY PROGRAMS - High school graduates, or those who left high school prior to graduation, enrolled in an approved secondary career and technical program to prepare for a new occupation or to upgrade skills in his/her present occupation.

ADVANCED ACADEMIC COURSES - Those courses that increase the mathematics, science and communications achievement of students and enhance their ability to successfully enter the workforce or further their education after graduation as approved by the State Board for Vocational Education.

APPROVED SECONDARY CAREER AND TECHNICAL EDUCATION PROGRAM - A program that has been approved by the Pennsylvania Department of Education in accordance with applicable State Board of Education regulations governing career and technical education. This does not include family and consumer sciences.

AREA VOCATIONAL-TECHNICAL SCHOOL (AVTS) - A public school which provides career and technical education to secondary school students, out-of-school youth and adults in a geographical area comprised of and operated by one or more school districts and established under Sections 1840 - 1853 of the Public School Code of 1949 (24 P.S. §§18-1840--18-1853).

COMPLETER - A student, including an adult in a secondary program, who (1) has completed all program requirements and has met the performance standards in the approved career and technical program, according to the Pennsylvania Secondary Career and Technical Education Program Approval (PDE-320) form on file with the district and PDE, or, if disabled, has met the vocational Individualized Education Program (IEP) requirements, and (2) has graduated.

COMPLETION RATE - A measure of the percentage of students who were enrolled in career and technical education programs at 11th grade or above who completed all program requirements in the same school and received diplomas in the year in which they were scheduled to graduate.

DIVERSIFIED OCCUPATIONS PROGRAM - A secondary career and technical education program in which students are given supervised work experience in any one of a variety of occupations combined with related classroom instruction. This type of program is suited especially to communities where the need for workers is too limited to justify separate courses for each occupation. This program is usually under the direction of the trade and industrial education division and supervised by a teacher-coordinator.

FEDERAL CAREER CLUSTERS - Sixteen broad categories developed by the U.S. Department of Education that encompass virtually all occupations from entry through professional levels.

NOT ELSEWHERE CLASSIFIED - A single-skill or special career and technical education program that cannot be classified under any of the other six program areas. Diversified occupations is the most common of these programs.

OFF-CAMPUS LEARNING COMPONENT - One or more activities outside of the regular classroom instruction in which a student participates during his/her career and technical program.

COMMUNITY/JOB EXPLORATION EXPERIENCE - Off-campus/credit-bearing exploratory learning activities occurring in the community with the specific intent to provide realistic career exploration experiences for students.

COOPERATIVE WORK EXPERIENCE - A method of providing on-the-job experience in a career and technical education program. Through written arrangement between the school and employer, the student receives instruction, including required academic courses and related career and technical instruction, by alternation of study in school with a job in any occupational field.

INTERNSHIP - A planned, supervised experiential learning with rotation periods of work observation and work exploration in a variety of employment situations ordinarily for short periods of time. Students are not usually paid for their experience; however, they do receive school credit. These experiences are primarily intended to develop career awareness rather than occupational competence.

SCHOOL SPONSORED ENTERPRISE - Small businesses created and operated by students where the school implements a real, economically viable business venture. These typically are non-profit activities and can include activities such as house refurbishing and the repair of parks.

SUPERVISED AGRICULTURE EXPERIENCE - A supervised agriculture experience operating as an integral part of a career and technical agriculture program. These experiences take place at any time during the calendar year and require the students to record, summarize and utilize supervised agriculture experience record books. Most experiences are supervised by the agriculture teachers, and students may have paid or unpaid experiences.

WORK BASED EXPERIENCE - Off-campus learning that would be gained through training and instruction. A work based experience refers to technical skills occurring in a work setting. Students enrolled in Diversified Occupations usually have this component.

PLAN OF DELIVERY - Methods of instruction and technical skills development, either in a school or work setting, as outlined in the approved secondary career and technical education program. Plans may encompass either occupational (non-tech prep) or tech prep delivery.

PUBLIC SCHOOL ENROLLMENTS - An unduplicated grade-level count of students reported to the Pennsylvania Department of Education as being enrolled in public schools as of October 1.

RACIAL/ETHNIC CATEGORIES - Categories used to describe groups to which individuals belong, identify with, or belong in the eyes of the community. These categories do not denote scientific definitions of anthropological origins. However, no person is counted in more than one racial/ethnic category.

AMERICAN INDIAN/ALASKAN NATIVE - A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

ASIAN/PACIFIC ISLANDER - A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or Pacific Islands. This includes people from China, Japan, Korea, the Philippine Islands, Samoa, India and Vietnam.

BLACK (NON-HISPANIC) - A person having origins in any of the black racial groups of Africa (except those of Hispanic origin).

HISPANIC - A person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.

WHITE (NON-HISPANIC) - A person having origins in any of the original peoples of Europe, North Africa or the Middle East (except those of Hispanic origin).

SPECIAL POPULATIONS CATEGORIES: Reported in as many categories as apply to a student.

DISABLED - Individuals who have a physical/mental impairment, as specified in their Individualized Education Program (IEP), as defined in section 300.7 of the Individuals with Disabilities Act of 1997 (34 C.F.R. 12102).

DISPLACED HOME MAKER - Adults who have worked primarily without remuneration to care for a home and family, and for that reason have diminished marketable skills.

ECONOMICALLY DISADVANTAGED - Individuals who are from low-income families, including foster children, who by reason of family income qualify for free and reduced price lunch, Temporary Assistance for Needy Families, Pell grants, or other economic services.

EDUCATIONALLY DISADVANTAGED - Individuals who are not succeeding or projected not to succeed because of educational barriers that interfere with learning.

GIFTED - Individuals with outstanding intellectual and creative ability (as set forth in Chapter 342 of the 22 PA Code), the development of which requires special services and programs not ordinarily provided in the regular education program and which is specified in the student's Individualized Educational Program (IEP).

LIMITED ENGLISH PROFICIENCY (LEP) - Individuals who meet either of the following criteria. Individuals who:

- A. have limited ability speaking, reading, writing or understanding the English language and whose native language is a language other than English; or
- B. live in a family or community environment in which a language other than English is the dominant language.

NONTRADITIONAL - Individuals enrolled in a program in which the statewide enrollment for their gender is 24.9 percent or less.

SINGLE PARENT - Individuals who are unmarried or legally separated from a spouse and who have a minor child or children for which the parent has either custody or joint custody, or are pregnant.

TECH PREP PROGRAM - A combined secondary and postsecondary program that leads to an associate degree or certificate and employment. It provides integration of academic and technical preparation in engineering technology; applied science; mechanical, industrial or practical art or trade; agriculture; health; or business. This includes development of competence in mathematics, science and communications through a sequential course of study.

UNGRADED - A secondary career and technical education student whose grade cannot be determined.

APPENDIX E

SOURCES

1. Secondary Career and Technical Education Individual Student Data System
2. Career and Technical Education Adults in Secondary Completer Survey (PDE-4521)
3. Career and Technical Education Secondary Completer Survey (PDE-4519)
4. *Public, Private and Nonpublic Schools, Enrollments, 2003-04*, Pennsylvania Department of Education, Division of Data Services, 2004.
5. *Public Schools: Summary of Enrollments, 1999-00*, Pennsylvania Department of Education, Division of Data Services, 2000.
6. *Public Schools: Summary of Enrollments, 2003-04*, Pennsylvania Department of Education, Division of Data Services, 2004.