

Postr-Secondery 1982

# Vocational Education Sex Equity Report Post-Secondary 1982 

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## Introduction

Active efforts to achieve sex equity in Minnesota's post-secondary vocational education system have now been underway for more than five years. These efforts recognize the historical role of vocational education in providing skilled workers for a changing labor market, and an historical commitment to addressing the needs of all workers.

The most significant change in the labor market in the last two decades has been the increasing employment of women. Minnesota is well above the national average in labor force participation rates, and currently almost two-thirds of all working-age women in the state hold paid employment outside the home.

The goal of sex equity, as expressed in federal law and state policy, is to expand career options for both men and women and to eliminate sex bias and sex stereotyping which limit these options.

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This report is the sixth in a series presenting data on the status of men and women in Minnesota's AVTI system. The report was prepared by the Council on the Economic Status of Women under contract with the Vocational-Technical Division of the Minnesota Department of Education.

The format of this report is similar to that of last year's publication, "Vocational Education Sex Equity Report: Post-Secondary, 1981." Information is presented on statewide enrollment patterns by program type and by curriculum area, in addition to information on program budgets, AVTI graduates, and staff patterns. Data on trends over the last four years are presented following each summary of current statewide patterns. A detailed appendix provides information for each AVTI, a course-by-course listing of statewide enrollments by curriculum area, and definitions.

The four-year statewide analysis shows improvement in a number of areas. The enrollment of women in technical and trade-industrial occupations courses, and the enrollment of men in health occupations courses, have increased. A growing number of courses have almost equal numbers of male and female students. Although women still represent a small percentage of vocational instructors and administrators, improvement is evident in staff patterns as well.

Continued efforts are needed for continued improvement. The data presented in this report suggest that progress toward the goal of sex equity is being achieved in Minnesota's AVTI system.

## AVTI Enrollments, 1980-81

Male students account for the majority of AVTI enrollments. In 1980-81, the total statewide enrollment of 48,050 consisted on 20,108 female students and 27,942 male students.

Except where otherwise noted, all enrollment data in this report refer to an actual student headcount, a count of all students enrolled in a program at a particular time during the school year. The usual measure of enrollment, average daily membership, is not reported by sex. Enrollment data also exclude students participating in special needs programs.

Like other public post-secondary educational systems in Minnesota, the AVTI system has experienced increases in total enrollments and increases in the percentage of students who are female. However, the AVTI system has a lower percentage of female students than all other public postsecondary systems -- the State University System (53 percent female), the Community College system ( 58 percent female), and the University of Minnesota ( 45 percent female).
avti headcounts, 1980-81


## 48,050 STUDENTS

Women are the majority of students at four AVTIs: Duluth, East Grand Forks, Eveleth, and Rochester. At seven additional AVTIs, women represent less than one-third of students. At the remaining 22 AVTIs, women account for one-third to one-half of all students. (See Table l.)

## AVTI Enrollment Trends

Total enrollment in Minnesota's AVTIs increased by 2,663 students between 1979-30 and 1980-81. In this one-year period, all but nine AVTIs experienced enrollment increases.

The percentage of all AVTI students who are women dropped slightly in the last year, after smali but steady increases in the previous three-year period. Twenty AVTIs had a smaller percentage of female students in 1980-81 than in 1979-80. Of these, 14 schools experienced enrollment increases which were disproportionately male, while ó had enrollment decreases which were disproportionately female.

Despite decreases in female enrollment in the past year, there has been a slight increase in overall enrollment of women over the past four years, from 41 percent to 42 percent of all students. Between 1977-78 and 1980-81, there has been a 17 percent increase in female students and a 10 percent increase in male students.


## Program Types, 1980-81

A total of 779 programs are offered at individual AVTIs in the state. The number of programs available at each school ranges from 10 at Pine City AVTI to 54 at the 916 AVTI. The median number of programs offered is 21.

AVTI programs are very likely to be "segregated." This term is not meant to imply that such segregation is the result of explicit policies, nor that it has occurred by design. For the purposes of this report, a segregated program is defined as one in which more than 80 percent of the students are of one sex.

Segregated programs in which more than 80 percent of students are men are defined as "male" programs, and those in which more than 80 percent of the students are women are defined as "female" programs. All other programs are considered "integrated."

For example, Auto Mechanics is usually a segregated "male" course and Nursing LPN is usually a segregated "female" course, while General Merchandising is usually an integrated course. A course may be segregated at one AVTI and integrated at another AVTI.

AVTI PROGRAMS, 1980-81


779 PROGRAMS

Of the 779 programs offered at individual AVTIs, 35 b are segregated "male" programs and 225 are segregated "female" programs. In fact, more than one in four programs are either all-male or all-female. (See Tables 2 and 3.)

## Program Types - Trends

The proportion of AVTI programs which are integrated has increased steadily over the past four years, while the number of programs which are segregated has decreased accordingly. The total number of programs offered at individual AVTIs has increased by 3 percent in this period, while the number of integrated programs has increased by 20 percent. However, integrated programs still account for only one-quarter of all AVTI programs.


## Program Types - Trends, continued

Segregated programs have not been evenly divided into predominantly male courses and predominantly female courses. In all four years reported here, segregated "male" courses have outnumbered segregated "female" courses by a substantial margin.

Data for 1980-81 show a slight reversal of the trend toward equalizing numbers of "male" and "female" programs. However, there has been a net decrease in the number of "male" programs and a corresponding increase in the number of "female" programs over the past four years.


## Enrollments by Program Type, 1980-81

The number of students enrolled in a program varies widely, from 3 students in Agricultural Production at Staples AVTI to 470 students in the Clerk/Typist program at Suburban Hennepin AVTI. For this reason, it is helpful to compare the numbers of students in programs, as well as the numbers of programs, to determine enrollment patterns by sex.

An analysis of students enrolled in "traditional" as compared with "non-traditional" programs provides an additional measure of sex equity. A traditional student is one enrolled in a segregated program dominated by students of the same sex -- men in "male" courses and women in "female" courses. A non-traditional student is one enrolled in a course in which more than 80 percent of the students are of the other sex.

As shown in the chart below, the large majority of AVTI students are enrolled in traditional programs, while about 1 in 28 students are enrolled in programs which are non-traditional for their sex. Just over one-quarter of all AVTI students are enrolled in integrated programs.

## AVTI ENROLLMENT BY PROGRAM TYPE, 1980-81



At four AVTIs -- Albert Lea, Mankato, Moorhead, and Suburban Hennepin -integrated programs account for more than one-third of all students. The AVTI with the largest proportion of students enrolled in nontraditional programs is East Grand Forks, where nontraditional enrollments account for 6 percent of all students. (See Table 6)

## Enrollments by Program Type, continued

Both male and female students are most likely to be enrolled in programs which are traditional for their sex, and least likely to be enrolled in non-traditional programs. However, there are differences in the enrollment patterns of men and women attending AVTIs.

Female students are somewhat more likely than male students to be enrolled in integrated programs -- 30 percent of women compared with 24 percent of men. Female students are more than twice as likely as male students to be enrolled in non-traditional programs -- about 1 in 20 female students compared with about 1 in 50 male students. (See Tables 4 \& 5)

## AVti enrollment by program type, 1980-81.




27,942 male students


20, 108 FEMALE STUDENTS

Statewide, almost one-fifth of AVTI students are enrolled in programs which are either all-male or all-female. There are 4,318 male students in programs with no women, and 4,201 female students in courses with no men. More than 100 programs at individual AVTIs have only one female student or only one male student, among an average of 40 students of the other sex. Sixty-nine women are in the position of being "the only woman" in classes such as Welding and Cutting, Sheet Metal, and Electronics Technology. Thirtythree men are "the only man" in classes such as Nursing LPN, General Secretarial, and Apparel \& Accessories. (See Table 3.)

## Enrollments by Program Type - Trends

One of the most significant changes in numerical measures of sex equity in the past four years has been the increase in the number of students enrolled in integrated programs, from just over one-fifth of students to more than onequarter of students. There have also been small but steady increases in the numbers of students enrolled in nontraditional programs. However, there is greater movement from segregated to integrated programs than from segregated traditional to segregated nontraditional courses.

In the past four years, the number of students enrolled in integrated programs has increased by 3,442 , compared to increases of 1,558 in traditional enrollments and 427 in nontraditional enrollments.

Female students have been more likely than male students to enroll in either integrated programs or nontraditional programs throughout this period. Female integrated enrollments have increased from fewer than 1 in 4 to almost 1 in 3. Male enrollments in integrated programs have increased from about 1 in 5 to about 1 in 4.


## Enrollment by Curriculum Area, 1980-81

The chart below shows the distribution of male and female students in the seven AVTI curriculum areas. Almost half of all students are enrolled in trade-industrial programs, while only 2 percent are participating in home economics programs.

Only the distributive education programs have approximately equal numbers of male and female students. About two-thirds of female students are enrolled in health or business-office programs, while more than threefourths of male students are enrolled in technical or trade-industrial programs. (See Table 7.)

AVTI HEADCOUNT BY CURRICULUM AREA, 1980-81

|  | MALES g. FEMALES |  |
| :---: | :---: | :---: |
| AGRICULTURE |  | 5\% |
| DISTRIBUTION |  | 7\% |
| HEALTH |  | 12\% |
| HOME ECONOMICS | $09$ | 2\% |
| OFFICE |  | 20\% |
| TECHNICAL |  | 9\% |
| TRADE E |  |  |
|  |  |  |

Each figure represents approximately $1 \%$ of total enrollment, or 481 students.

Statewide patterns shown above do not illustrate the full extent of segregation by sex in program areas. For example, even the relatively few male students enrolled in office programs are concentrated in a few courses. Three-fourths of male office students are enrolled in Accounting, EDP \& Programming/Computer Operations, or Data Processing II/Computer operations.

In the trade-industrial area, 61 percent of female students are enrolled in just four courses: Commercial Art, Graphic Arts, Cosmetology, or Food Preparation Cooking. These four programs account for only 9 percent of male trade-industrial students.

## Enrollment by Curriculum Area - Trends

Overall, there have been few changes in the patterns of male and female enrollment by program over the past four years. Male students continue to be concentrated in agriculture, technical, and tradeindustrial courses; female students continue to be concentrated in health, home economics, and business-office courses.

However, there have been increases in male enrollments in health courses, and in female enrollments in agriculture, technical, and tradeindustrial enrollments over the four years -- though there were slight decreases in these female enrollments over the past year.

The charts below and on the following pages show changes in enrollment patterns by curriculum area. For more information on enrollment in specific courses in 1980-81, see Table 10 in the appendix to this report.

*     *         *             *                 * 

Women represent about one in six agriculture students, and female enrollments as a percentage of all enrollments in this area dropped slightly in the last year. However, the rate of increase for female enrollments over the past four years has been 12 percent compared with a rate of 5 percent for males.

Of the 15 agriculture courses offered statewide, 8 are "male" courses and 7 are integrated courses. The "male" courses account for more than two-thirds of all agriculture students.


## Enrollment by Curriculum Area - Trends, continued

Distribution has been the most balanced by sex of the curriculum areas. In the past four years, however, this area has become more segregated. Female enrollments have increased at the rate of 13 percent, while male enrollments have decreased at the rate of 6 percent.

Of the 20 distribution courses offered statewide, 11 are integrated while 5 are "male" courses and 4 are "female" courses. Sixty-one percent of distribution students are enrolled in an integrated program.



Men now represent about one in ten health students, and their enrollments have increased by 52 percent over the last four years compared to a 5 percent increase in female enrollments.

Of the 17 health courses offered statewide, 13 are "female" courses while 2 are "male" courses and 2 are integrated courses. Ninetythree percent of heal th students are enrolled in a "female" class.

## Enrollment by Curriculum Area - Trends, continued

Men represent one in five home economics students, a slightly smaller proportion than four years ago. Although this area has become more balanced in the past year, male representation remains below the level of four years ago.

Of the 8 home economics courses offered statewide, 4 are "female" and 4 are integrated. Almost three-fourths of the students are enrolled in the "female" courses.



Men represent about one in six business-office students, and there has been virtually no change in this area in the past four years.

Of the 23 business-office courses offered statewide, 16 are "female" courses and 7 are integrated courses. However, 43 percent of students are enrolled in the integrated courses.

## Enrollment by Curriculum Area - Trends, continued

Women account for about one in eight technical students. Although their representation has dropped in the last year, it remains well above the level of four years ago.

Of the 21 technical courses offered statewide, 14 are "male" courses and 7 are integrated courses. The "male" courses account for 85 percent of students.



Women account for about one in six trade-industrial students. Although their representation decreased slightly in the last year, it remains well above the level of four years ago.

Of the 66 trade-industrial courses offered statewide, 47 are "male," 1 is "female," and 18 are integrated. The integrated courses account for 17 percent of students. There are seven statewide courses with no female students.

## Program Budgets, 1980-81

Program expenditures provide another method of measuring sex equity. The program budget of the AVTI system totals $\$ 64.8 \mathrm{million}$, a figure which includes instructors' salaries and all other program costs, but which does not include general administration and costs associated with support programs.

Of this amount, $\$ 41.6$ million is spent on male students and $\$ 23.2$ million is spent on female students, a ratio of almost two to one.

Program costs are apportioned by applying male and female enrollment ratios in each program to the net budget for that program. For example, a budget of $\$ 100,000$ for a program with 90 male and 10 female students is recorded as $\$ 90,000$ spent on male students and $\$ 10,000$ spent on female students. (See Tables 11 \& 12)

## AVTI PROGRAM COSTS APPORTIONED BY SEX OF STUDENT



1980-81 PROGRAM BUDGET - $\$ 64.8$ MILLION

Women account for 42 percent of AVTI enrollments, but they receive only 36 percent of budgets statewide. Only five schools -- Brainerd, Canby, Detroit Lakes, Faribault, and Pipestone -- have "female" budgets which are in excess of female enrollments. At Jackson AVTI, the "female" budget equals female enrollments. In the remaining 27 AVTIs, financial resources apportioned to male students exceed their representation in the student population.

## Program Budgets - Trends

The proportion of AVTI budgets spent on female students remains above the level of four years ago, though it decreased in the last year. Total budgets statewide increased from $\$ 48.9$ million to $\$ 64.8 \mathrm{million}$ over the four-year period.

The net result of these changes was that male students received an additional $\$ 9.5$ million while female students received an additional $\$ 6.4$ million over that period.

Costs per student increased in the same period by $\$ 222$ for male students and by $\$ 181$ for female students.


## Staff Patterns, 1980-81

Staffing patterns provide another measure of sex equity in vocational education. Female staff can serve as role models for female students, and provide tangible evidence of an institution's commitment to equal opportunity. Both numbers of staff and staff salaries in this report are expressed in fulltime equivalents (FTEs).

A substantial majority of the 2,294 AVTI teachers are men. Women represent the minority of teachers, usually less than one-third, at all AVTIs except East Grand Forks (52.7 percent female) and Rochester ( 57.2 percent female) -both schools where a majority of students are women. (See Table 13)

AVTI POST-SECONDARY TEACHERS, 1980-81


2,294 FTE TEACHERS

Although male and female teachers have the same average years of service statewide, female teachers have significantly lower average salaries. Male teachers have higher average salaries than female teachers at every AVTI but Hibbing, where men earn an average of $\$ 21,049$ and women earn an average of $\$ 21,273$. However, women have as many or more years of service, on the average, at six AVTIs. (See Table 14)

Among all post-secondary administrators, women now account for 14 percent, or about one in seven.

## Teachers by Curriculum Area, 1980-81

Women account for just over one in four vocational teachers at the post-secondary level statewide. More than half of female teachers are in health or business and office programs, "female" fields which also account for the majority of female AVTI students. More than half of male teachers are concentrated in technical or trade-industrial programs, which account for the majority of male enrollments and for the smallest numbers of female students.

AVTI TEACHERS BY CURRICULUM AREA, 1980-81 VMALES \&FEMALES

| AGRICULTURE |
| :--- | :--- |
| DISTRIBUTION |
| HOME ECONOMICS |
| OFFICE |
| TECHNICAL |
|  |
| INDUSTRIAL | approximately 20 teachers.

The proportion of teachers who are female is lower than the proportion of students who are female in every program area. Women are 89 percent of the teachers and 92 percent of the students in health programs; 82 percent of the teachers and 84 percent of the students in home economics programs; and 50 percent of the teachers and 82 percent of the students in business and office programs.

## Teacher Trends

From 1977-78 to 1980-81, the number of post-secondary vocational teachers increased from 2264 to 2354 , a net increase of 91 FTE positions. Of this number, 26 were male teachers and 65 were female teachers. The statewide representation of female teachers increased over this period from 25 percent to 27 percent, with most of the increase occurring over the last two years of this four-year period.

Similar gains occurred in the representation of women among postsecondary vocational administrators, from 11 percent in 1977-78 to 14 percent in 1980-81.


## Student Follow-Up, 1981

Information about AVTI graduates is compiled yearly by the Minnesota Vocational Follow-Up System. The 1981 report presents information about 6,541 women and 6,743 men who graduated from an AVTI in fiscal year 1980 .

In general, there are few differences between male and female graduates except in occupation and earnings. Eighty-five percent of the women and 87 percent of the men were employed one year later. Both male and female graduates were likely to work full-time, although more women than men worked part-time. About two-thirds of each group were employed in jobs related to their vocational training -- 62 percent of women and 64 percent of men.

Male graduates were somewhat more likely than female graduates to receive additional training in the year following graduation, 41 percent compared to 36 percent. Both men and women were likely to have received on-the-job training only, but this response was more common among women. Female graduates were more likely than their male counterparts to attend college; male graduates were more likely to receive additional training at a vocational school or through an apprenticeship program, and men were more likely to receive training from several different sources.

Female graduates expressed a higher level of satisfaction than male graduates in questions related to their present jobs and to their AVTI experience -- a typical pattern for women in most studies. In questions related to their present jobs, women expressed greatest satisfaction with co-workers and safety conditions, while men expressed greatest satisfaction with advancement potential and salary. Twenty-eight percent of male graduates and 22 percent of female graduates reported that they had received job advancement in the first year after graduation.

Since most graduates are employed in jobs related to their vocational training, i.t is not surprising that employment patterns closely parallel AVTI enrollments, and that there are significant differences between men and women in occupation and earnings. One year after graduation, 63 percent of male graduates are employed in trade-industrial occupations. These occupations, however, account for only 15 percent of female graduates.

Auto Mechanics was the most likely occupation for men employed in trade-industrial jobs, accounting for about 7 percent of these men, while cosmetology was the most frequent for women. About half of female AVTI graduates were employed in office occupations, primarily Business and Office Clerk or General Secretary. The office occupations cluster accounted for only 6 percent of male graduates, most of whom were employed in accounting or data processing.

Male graduates were least likely to be employed in health or home economics occupations, together accounting for less than 4 percent of the men. Female graduates were least likely to work in agricultural, home economics, or technical occupations, together accounting for less than 6 percent of the women.

## Student Follow-Up, continued

Salary data are obtained for the first job after graduation and for the job in which graduates are employed one year later, and women earn considerably less than men at both points. In their first jobs, women earned a median annualized salary of $\$ 8,350$, compared to $\$ 10,820$ for men. Within one year, the earnings gap had widened, with median salaries of $\$ 9,050$ for women and $\$ 11,710$ for men.

MONTHLY WAGES ONE YEAR AFTER GRADUATION,
AVTI GRADUATES EMPLOYED FULL-TIME IN JOBS RELATED TO TRAINING ( 1981 REPORT)


The state minimum wage in 1981 was $\$ 3.10$ per hour, or $\$ 537$ per month for full-time workers. In their current jobs, most AVTI graduates had earnings over $\$ 600$ monthly. The women, however, were more likely than the men to have earnings at or near the minimum wage -- 20 percent of the female graduates had salaries of $\$ 600$ per month or less.

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table 1. headcount enrollments by sex, 1980-81

| AVTI | Male <br> Students | Female Students | Total Students | Percent <br> Female |
| :---: | :---: | :---: | :---: | :---: |
| Albert Lea | 436 | 218 | 654 | 33.3 \% |
| Alexandria | 985 | 802 | 1,787 | 44.9 \% |
| Anoka | 1,646 | 1,197 | 2,843 | 42.1 \% |
| Austin | 502 | 269 | 771 | 34.9 \% |
| Bemidji | 287 | 252 | 539 | 46.8 \% |
| Brainerd | 437 | 390 | 827 | 47.2\% |
| Canby | 339 | 146 | 485 | 30.1\% |
| Dakota County | 1,141 | 836 | 1,977 | 42.3\% |
| Detroit Lakes | 783 | 293 | 1,076 | 27.2 \% |
| Duluth | 1,136 | 1,143 | 2,279 | 50.2 \% |
| East Grand Forks | 471 | 541 | 1,012 | 53.5 \% |
| Eveleth | 208 | 244 | - 452 | 54.0 \% |
| Faribault | 301 | 208 | 509 | 40.9 \% |
| Granite Falls | 263 | 263 | 526 | 50.0\% |
| Hibbing | 403 | 242 | 645 | 37.5 \% |
| Hutchinson | 453 | 332 | 785 | 42.3\% |
| Jackson | 627 | 255 | 882 | 28.9 \% |
| Mankato | 1,034 | 932 | 1,966 | 47.4\% |
| Minneapolis | 1,576 | 1,335 | 2,911 | 45.9 \% |
| Moorhead | 595 | 485 | 1,080 | 44.9 \% |
| 916 | 2,601 | 2,439 | 5,040 | 48.4\% |
| Pine City | 263 | 112 | 375 | 29.9 \% |
| Pipestone | 571 | 278 | 849 | 32.7 \% |
| Red Wing | 538 | 196 | 734 | 26.7 \% |
| Rochester | 498 | 872 | 1,370 | 63.6 \% |
| St. Cloud | 1,307 | 862 | 2,169 | 39.7 \% |
| St. Paul | 2,165 | 1,348 | 3,513 | 38.4\% |
| Staples | 617 | 105 | 722 | 14.5\% |
| Suburban Hennepin | 3,532 | 1,791 | 5,323 | 33.6 \% |
| Thief River Falls | 421 | 215 | 636 | 33.8 \% |
| Wadena | 423 | 273 | 696 | 39.2\% |
| Willmar | 955 | 919 | 1,874 | 49.0 \% |
| Winona | 428 | 315 | 743 | 42.4 \% |
| TOTAL | 27,942 | 20,108 | 48,050 | 41.8 \% |

TABLE 2. SEGREGATED AND INTEGRATED PROGRAMS, 1980-81

| AVTI | Total Programs | Segregated Programs |  |  | Integrated Programs | Percent <br> Integrated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | "Male" Programs | "Female" Programs | Total |  |  |
| Albert Lea | 13 | 6 | 1 | 7 | 6 | 46.2 \% |
| Alexandria | 32 | 15 | 9 | 24 | 8 | 25.0\% |
| Anoka | 38 | 10 | 15 | 25 | 13 | 34.2 \% |
| Austin | 16 | 7 | 4 | 11 | 5 | $31.3 \%$ |
| Bemidji | 13 | 6 | 4 | 10 | 3 | 23.1 \% |
| Brainerd | 22 | 7 | 9 | 16 | 6 | 27.3 \% |
| Canby | 13 | 7 | 2 | 9 | 4 | 30.8 \% |
| Dakota County | 35 | 20 | 7 | 27 | 8 | 22.9 \% |
| Detroit Lakes | 27 | 13 | 5 | 18 | 9 | 33.3 \% |
| Duluth | 31 | 13 | 9 | 22 | 9 | 29.0 \% |
| East Grand Forks | 20 | 7 | 13 | 20 | 0 | 0.0 \% |
| Eveleth | 12 | 5 | 5 | 10 | 2 | 16.7 \% |
| Faribault | 15 | 9 | 3 | 12 | 3 | 20.0 \% |
| Granite Falls | 14 | 5 | 6 | 11 | 3 | 21.4 \% |
| Hibbing | 14 | 6 | 6 | 12 | 2 | 14.3 \% |
| Hutchinson | 18 | 8 | 7 | 15 | 3 | 16.7 \% |
| Jackson | 22 | 12 | 6 | 18 | 4 | 18.2 \% |
| Mankato | 23 | 10 | 5 | 15 | 8 | 34.8 \% |
| Minneapolis | 34 | 15 | 7 | 22 | 12 | 35.3 \% |
| Moorhead | 24 | 10 | 8 | 18 | 6 | 25.0 \% |
| 916 | 54 | 21 | 17 | 38 | 16 | 29.6 \% |
| Pine City | 10 | 6 | 3 | 9 | 1 | 10.0 \% |
| Pipestone | 14 | 8 | 4 | 12 | 2 | 14.3\% |
| Red Wing | 19 | 12 | 2 | 14 | 5 | 26.3 \% |
| Rochester | 25 | 8 | 13 | 21 | 4 | 16.0 \% |
| St. Cloud | 35 | 18 | 7 | 25 | 10 | 28.6 \% |
| St. Paul | 40 | 18 | 11 | 29 | 11 | 27.5 \% |
| Staples | 16 | 11 | 1 | 12 | 4 | 25.0\% |
| Suburban Hennepin | 51 | 26 | 9 | 35 | 16 | 31.4 \% |
| Thief River Falls | 16 | 7 | 5 | 12 | 4 | 25.0 \% |
| Wadena | 15 | 8 | 4 | 12 | 3 | 20.0\% |
| Willmar | 27 | 11 | 10 | 21 | 6 | 22.2 \% |
| Winona | 21 | 11 | 8 | 19 | 2 | 9.5\% |
| TOTAL | 779 | 356 | 225 | 581 | 198 | 25.4 \% |

table 3. Single-sex programs \& Enrollments, 1980-81


| AVTI | Total <br> Male <br> Students | $\frac{\text { Enrolled }}{\ln \text { "Male" }}$ Programs | $\begin{aligned} & \text { n Segregated } \\ & \frac{\text { In "Female } 11}{\text { In }} \\ & \text { Programs } \end{aligned}$ | Programs <br> Total | Enrolled in Integrated Programs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Albert Lea | 436 | 311 | 0 | 311 | 125 |
| Alexandria | 985 | 729 | 6 | 735 | 250 |
| Anoka | 1,646 | 1,213 | 29 | 1,242 | 404 |
| Austin | 502 | 378 | 7 | 385 | 117 |
| Bemidji | 287 | 252 | 1 | 253 | 34 |
| Brainerd | 437 | 306 | 10 | 316 | 121 |
| Canby | 339 | 293 | 0 | 293 | 46 |
| Dakota County | 1,141 | 871 | 26 | 897 | 244 |
| Detroit Lakes | 783 | 574 | 5 | 579 | 204 |
| Duluth | 1,136 | 804 | 51 | 855 | 281 |
| East Grand Forks | 471 | 435 | 36 | 471 | 0 |
| Eveleth | 208 | 180 | 11 | 191 | 17 |
| Faribault | 301 | 243 | 4 | 247 | 54 |
| Granite Falls | 263 | 211 | 0 | 211 | 52 |
| Hibbing | 403 | 360 | 7 | 367 | 36 |
| Hutch inson | 453 | 339 | 12 | 351 | 102 |
| Jackson | 627 | 564 | 4 | 568 | 59 |
| Mankato | 1,034 | 674 | 3 | 677 | 357 |
| Minneapolis | 1,576 | 1,038 | 75 | 1,113 | 463 |
| Moorhead | 595 | 398 | 4 | 402 | 193 |
| 916 | 2,601 | 1,693 | 99 | 1,792 | 809 |
| Pine City | 263 | 252 | 2 | 254 | 9 |
| Pipestone | 571 | 423 | 13 | 436 | 135 |
| Red Wing | 538 | 443 | 1 | 444 | 94 |
| Rochester | 498 | 408 | 52 | 460 | 38 |
| St. Cloud | 1,307 | 990 | 5 | 995 | 312 |
| St. Paul | 2,165 | 1,583 | 47 | 1,630 | 535 |
| Staples | 617 | 516 | 0 | 516 | 101 |
| Suburban Hennepin | 3,532 | 2,301 | 68 | 2,369 | 1,163 |
| Thief River Falls | 421 | 366 | 2 | 368 | 53 |
| Wadena | 423 | 356 | 4 | 360 | 63 |
| Willmar | 955 | 739 | 40 | 779 | 176 |
| Winona | 428 | 380 | 9 | 389 | 39 |
| TOTAL | 27,942 | 20,623 | 633 | 21,256 | 6,686 |

table 5. ENRollments by program type, 1980-81 - females

| AVTI | Total <br> Female <br> Students | $\begin{aligned} & \frac{\text { Enrolled }}{\text { In "Male" }} \\ & \text { Programs } \end{aligned}$ | $\begin{aligned} & \frac{\text { n Segregated }}{\text { In "'Female }} \\ & \text { Programs } \end{aligned}$ | Programs Total | Enrolled in Integrated Programs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Albert Lea | 218 | 7 | 68 | 75 | 143 |
| Alexandria | 802 | 33 | 514 | 547 | 255 |
| Anoka | 1,197 | 54 | 908 | 962 | 235 |
| Austin | 269 | 8 | 180 | 188 | 81 |
| Bemidji | 252 | 4 | 174 | 178 | 74 |
| Brainerd | 390 | 18 | 249 | 267 | 123 |
| Canby | 146 | 7 | 80 | 87 | 59 |
| Dakota County | 836 | 51 | 555 | 606 | 230 |
| Detroit Lakes | 293 | 23 | 125 | 148 | 145 |
| Duluth | 1,143 | 58 | 840 | 898 | 245 |
| East Grand Forks | 541 | 29 | 512 | 541 | 0 |
| Eveleth | 244 | 10 | 213 | 223 | 21 |
| Faribault | 208 | 12 | 125 | 137 | 71 |
| Granite Falls | 263 | 6 | 190 | 196 | 67 |
| Hibbing | 242 | 31 | 181 | 212 | 30 |
| Hutchinson | 332 | 22 | 257 | 279 | 53 |
| Jackson | 255 | 16 | 180 | 196 | 59 |
| Mankato | 932 | 30 | 420 | 450 | 482 |
| Minneapolis | 1,335 | 73 | 765 | 838 | 497 |
| Moorhead | 485 | 11 | 301 | 312 | 173 |
| 916 | 2,439 | 136 | 1,533 | 1,669 | 770 |
| Pine City | 112 | 9 | 74 | 83 | 29 |
| Pipestone | 278 | 13 | 219 | 232 | 46 |
| Red Wing | 196 | 28 | 84 | 112 | 84 |
| Rochester | 872 | 13 | 795 | 808 | 64 |
| St. Cloud | 362 | 50 | 402 | 452 | 410 |
| St. Paul | 1,348 | 96 | 879 | 975 | 373 |
| Staples | 105 | 8 | 20 | 28 | 77 |
| Suburban Hennepin | 1,791 | 146 | 906 | 1,052 | 739 |
| Thief River Falls | 215 | 9 | 156 | 165 | 50 |
| Wadena | 273 | 17 | 199 | 216 | 57 |
| Willmar | 919 | 31 | 722 | 753 | 166 |
| Winona | 315 | 13 | 252 | 265 | 50 |
| TOTAL | 20,108 | 1,072 | 13,078 | 14,150 | 5,958 |

table 6. ENROLLMENTS BY PROGRAM TYPE, 1980-81 - ALL Students

|  | Total Students |  | In Seg-Trad'l Programs |  | In Seg-Non- <br> Trad'l Progs |  | In Integrated Programs |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AVTI | Number | \% | Number | \% | Number |  | Number | \% |
| Albert Lea | 654 | 100\%* | 379 | 58.0 | 7 | 1.1 | 268 | 41.0 |
| Alexandria | 1,787 | 100\% | 1,243 | 69.6 | 39 | 2.2 | 505 | 28.3 |
| Anoka | 2,843 | 100\% | 2,121 | 74.6 | 83 | 2.9 | 639 | 22.5 |
| Austin | 771 | 100\% | 558 | 72.4 | 15 | 1.9 | 198 | 25.7 |
| Bemidji | 539 | 100\% | 426 | 79.0 | 5 | 0.9 | 108 | 20.0 |
| Brainerd | 827 | 100\% | 555 | 67.1 | 28 | 3.4 | 244 | 29.5 |
| Canby | 485 | 100\% | 373 | 76.9 | 7 | 1.4 | 105 | 21.6 |
| Dakota County | 1,977 | 100\% | 1,426 | 72.1 | 77 | 3.9 | 474 | 24.0 |
| Detroit Lakes | 1,076 | 100\% | 699 | 65.0 | 28 | 2.6 | 349 | 32.4 |
| Duluth | 2,279 | 100\% | 1,644 | 72.1 | 109 | 4.8 | 526 | 23.1 |
| East Grand Forks | 1,012 | 100\% | 947 | 93.6 | 65 | 6.4 | 0 | 0.0 |
| Eveleth | 452 | 100\% | 393 | 86.9 | 21 | 4.6 | 38 | 8.4 |
| Faribault | 509 | 100\% | 368 | 72.3 | 16 | 3.1 | 125 | 24.6 |
| Granite Falls | 526 | 100\% | 401 | 76.2 | 6 | 1.1 | 119 | 22.6 |
| Hibbing | 645 | 100\% | 541 | 83.9 | 38 | 5.9 | 66 | 10.2 |
| Hutchinson | 785 | 100\% | 596 | 75.9 | 34 | 4.3 | 155 | 19.7 |
| Jackson | 882 | 100\% | 744 | 84.4 | 20 | 2.3 | 118 | 13.4 |
| Mankato | 1,966 | 100\% | 1,094 | 55.6 | 33 | 1.7 | 839 | 42.7 |
| Minneapolis | 2,911 | 100\% | 1,803 | 61.9 | 148 | 5.1 | 960 | 33.0 |
| Moorhead | 1,080 | 100\% | 699 | 64.7 | 15 | 1.4 | 366 | 33.9 |
| 916 | 5,040 | 100\% | 3,226 | 64.0 | 235 | 4.7 | 1,579 | 31.3 |
| Pine City | 375 | 100\% | 326 | 86.9 | 11 | 2.9 | 38 | 10.1 |
| Pipestone | 849 | 100\% | 642 | 75.6 | 26 | 3.1 | 181 | 21.3 |
| Red Wing | 734 | 100\% | 527 | 71.8 | 29 | 4.0 | 178 | 24.3 |
| Rochester | 1,370 | 100\% | 1,203 | 87.8 | 65 | 4.7 | 102 | 7.4 |
| St. Cloud | 2,169 | 100\% | 1,392 | 64.2 | 55 | 2.5 | 722 | 33.3 |
| St. Paul | 3,513 | 100\% | 2,462 | 70.1 | 143 | 4.1 | 908 | 25.8 |
| Staples | 722 | 100\% | 536 | 74.2 | 8 | 1.1 | 178 | 24.7 |
| Suburban Hennepin | 5,323 | 100\% | 3,207 | 60.2 | 214 | 4.0 | 1,902 | 35.7 |
| Thief River Falls | 636 | 100\% | 522 | 82.1 | 11 | 1.7 | 103 | 16.2 |
| Wadena | 696 | 100\% | 555 | 79.7 | 21 | 3.0 | 120 | 17.2 |
| Willmar | 1,874 | 100\% | 1,461 | 78.0 | 71 | 3.8 | 342 | 18.2 |
| Winona | 743 | 100\% | 632 | 35.1 | 22 | 3.0 | 89 | 12.0 |
| TOTAL | 48,050 | 100\% | 33,701 | 70.1 | 1,705 | 3.5 | 12,644 | 26.3 |

*Percentages may add to 99.9 or 100.1 , rather than 100.0 , due to rounding.

TABLE 7. ENROLLMENTS BY CURRICULUM AREA, 1980-81

| AVTI | Agriculture |  |  | Distribution |  |  | Heal th |  |  | Home Economics |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \#M | \#F | \%F | \#M | \#F | \%F | \#M | \#F | \%F | \#M | \#F | \%F |
| Albert Lea | -- | -- | -- | 48 | 46 | 48.9\% | -- | -- | -- | 22 | 22 | 50.0\% |
| Alexandria | 70 | 0 | 0.0\% | 117 | 267 | 69.5\% | 1 | 90 | 98.9\% | 0 | 42 | 100.0\% |
| Anoka | 109 | 33 | 23.2\% | 91 | 124 | 57.7\% | 49 | 612 | 92.6\% | 1 | 51 | 98.1\% |
| Austin | 42 | 0 | 0.0\% | 12 | 11 | 47.8\% | 2 | 45 | 95.7\% | -- | -- | -- |
| Bemidji | 31 | 1 | 3.1\% | 10 | 14 | 58.3\% | 25 | 32 | 56.1\% | -- | -- | -- |
| Brainerd | 79 | 46 | 36.8\% | 75 | 52 | 40.9\% | 4 | 91 | 95.8\% | -- | -- | -- |
| Canby | 145 | 4 | 2.7\% | -- | -- | -- | 0 | 40 | 100.0\% | 7 | 8 | 53.3\% |
| Dakota County | 66 | 31 | 32.0\% | 141 | 353 | 71.5\% | 2 | 49 | 96.1\% | 47 | 30 | 39.0\% |
| Detroit Lakes | 61 | 22 | 26.5\% | 38 | 45 | 54.2\% | 1 | 32 | 97.0\% | -- | -- | -- |
| Duluth | 75 | 30 | 28.6\% | 72 | 91 | 55.8\% | 50 | 385 | 88.5\% | 30 | 12 | 28.6\% |
| East Grand Forks | 104 | 0 | 0.0\% | 0 | 14 | 100.0\% | 18 | 245 | 93.2\% | 0 | 4 | 100.0\% |
| Eveleth | -- | -- | -- | -- | -- | -- | 6 | 102 | 94.4\% | -- | -- | -- |
| Faribault | 41 | 0 | 0.0\% | 13 | 27 | 67.5\% | 3 | 84 | 96.6\% | -- | -- | -- |
| Granite Falls | 25 | 1 | 3.8\% | 10 | 6 | 37.5\% | 0 | 35 | 100.0\% | -- | -- | -- |
| Hibbing | -- | -- | -- | 20 | 16 | 44.4\% | 5 | 115 | 95.8\% | 1 | 21 | 95.5\% |
| Hutchinson | 76 | 4 | 5.0\% | 35 | 31 | 47.0\% | -- | -- | -- | -- | -- | -- |
| Jackson | 42 | 3 | 6.7\% | 9 | 11 | 55.0\% | 3 | 86 | 96.6\% | -- | -- | -- |
| Mankato | 118 | 0 | 0.0\% | 79 | 93 | 54.1\% | 1 | 203 | 99.5\% | 0 | 27 | 100.0\% |
| Minneapolis | -- | -- | -- | 62 | 35 | 36.1\% | 28 | 332 | 92.2\% | 13 | 64 | 83.1\% |
| Moorhead | 34 | 1 | 2.9\% | 65 | 88 | 57.5\% | 0 | 20 | 100.0\% | -- | -- | -- |
| 916 | 17 | 34 | 66.7\% | 107 | 129 | 54.7\% | 221 | 596 | 72.9\% | 55 | 286 | 83.9\% |
| Pine City | 44 | 0 | 0.0\% | -- | -- | -- | -- | -- | -- | 0 | 13 | 100.0\% |
| Pipestone | 36 | 5 | 12.2\% | 107 | 128 | 54.5\% | -- | -- | -- | -- | -- | -- |
| Red Wing | 16 | 0 | 0.0\% | 9 | 18 | 66.7\% | 1 | 47 | 97.9\% | 20 | 27 | 57.4\% |
| Rochester | 4 | 24 | 85.7\% | -- | -- | -- | 45 | 550 | 92.4\% | 0 | 36 | 100.0\% |
| St. Cloud | 39 | 1 | 2.5\% | 149 | 113 | 43.1\% | 11 | 185 | 94.4\% | 2 | 48 | 96.0\% |
| St. Paul | -- | -- | -- | -- | -- |  | 34 | 426 | 92.6\% | 3 | 36 | 92.3\% |
| Staples | 53 | 0 | 0.0\% | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Suburban Hennepin | 187 | 113 | 37.7\% | 103 | 119 | 53.6\% | 50 | 310 | 86.1\% | 3 | 88 | 96.7\% |
| Thief River Falls | 26 | 0 | 0.0\% | 9 | 14 | 60.9\% | 2 | 22 | 91.7\% | -- | -- | -- |
| Wadena | -- | -- | -- | 3 | 21 | 87.5\% | -- | -- | -- | -- | -- | -- |
| Willmar | 236 | 22 | 8.5\% | 52 | 95 | 64.6\% | 6 | 191 | 97.0\% | -- | -- | -- |
| Winona | 33 | 1 | 2.9\% | 23 | 23 | 50.0\% | 6 | 103 | 94.5\% | -- | -- | -- |
| TOTAL | 1,809 | 376 | 17.2\% | 1,459 | 1,984 | 57.6\% | 574 | 5,028 | 89.8\% | 204 | 815 | 80.0\% |


| Office |  |  | Technical |  |  | Trade-Industrial |  |  | TOTAL |  |  | AVTI |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \#M | \#F | \%F | \#M | \#F | \%F | \#M | \#F | \%F | \#M | \#F | \%F |  |
| 18 | 110 | 85.9\% | 11 | 24 | 68.6\% | 337 | 16 | 4.5\% | 436 | 218 | 33.3\% | Albert Lea |
| 97 | 335 | 77.5\% | 112 | 4 | 3.4\% | 538 | 64 | 9.8\% | 985 | 802 | 44.9\% | Alexandria |
| 0 | 239 | 100.0\% | 210 | 33 | 13.6\% | 1,186 | 105 | 8.1\% | 1,646 | 1,197 | 42.1\% | Anoka |
| 10 | 91 | 90.1\% | 104 | 18 | 14.8\% | 332 | 104 | 23.9\% | 502 | 269 | 34.9\% | Austin |
| 24 | 202 | 89.4\% | -- | -- | -- | 197 | 3 | 1.5\% | 287 | 252 | 46.8\% | Bemidji |
| 27 | 184 | 87.2\% | -- | -- | -- | 252 | 17 | 6.3\% | 437 | 390 | 47.2\% | Brainerd |
| 15 | 71 | 82.6\% | 22 | 3 | 12.0\% | 150 | 20 | 11.8\% | 339 | 146 | 30.1\% | Canby |
| ${ }_{6}$ | 279 | 77.3\% | 81 | 11 | 12.0\% | 722 | 83 | 10.3\% | 1,141 | 836 | 42.3\% | Dakota County |
| 8 | 92 | 92.0\% | -- | -- | -- | 675 | 102 | 13.1\% | 783 | 293 | 27.2\% | Detroit Lakes |
| 81 | 531 | 86.8\% | 255 | 34 | 11.8\% | 573 | 60 | 9.5\% | 1,136 | 1,143 | 50.2\% | Duluth |
| 18 | 249 | 93.3\% | -- | -- | -- | 331 | 29 | 8.1\% | 471 | 541 | 53.5\% | East Grand Forks |
| 5 | 111 | 95.7\% | 31 | 2 | 6.1\% | 166 | 29 | 14.9\% | 208 | 244 | 54.0\% | Eveleth |
| 11 | 73 | 86.9\% | 31 | 12 | 27.9\% | 202 | 12 | 5.6\% | 301 | 208 | 40.9\% | Faribault |
| 15 | 208 | 93.3\% | 109 | 5 | 4.4\% | 104 | 8 | 7.1\% | 263 | 263 | 50.0\% | Granite Falls |
| 1 | 45 | 97.8\% | 29 | 4 | 12.1\% | 347 | 41 | 10.6\% | 403 | 242 | 37.5\% | Hibbing |
| 12 | 257 | 95.5\% | 130 | 12 | 8.5\% | 200 | 28 | 12.3\% | 453 | 332 | 42.3\% | Hutchinson |
| 9 | 122 | 93.1\% | 73 | 18 | 19.8\% | 491 | 15 | 3.0\% | 627 | 255 | 28.9\% | Jackson |
| 157 | 438 | 73.6\% | 238 | 29 | 10.9\% | 441 | 142 | 24.4\% | 1,034 | 932 | 47.4\% | Mankato |
| 158 | 444 | 73.8\% | 94 | 21 | 18.3\% | 1,221 | 439 | 26.4\% | 1,576 | 1,335 | 45.9\% | Minneapolis |
| 83 | 333 | 80.0\% | 39 | 1 | 2.5\% | 374 | 42 | 10.1\% | 595 | 485 | 44.9\% | Moorhead |
| 295 | 331 | 73.8\% | 291 | 75 | 20.5\% | 1,615 | 488 | 23.2\% | 2,601 | 2,439 | 48.4\% | 916 |
| 11 | 90 | 89.1\% | -- | -- | -- | 208 | 9 | 4.1\% | 263 | 112 | 29.9\% | Pine City |
| 74 | 104 | 58.4\% | -- | -- | -- | 354 | 41 | 10.4\% | 571 | 278 | 32.7\% | Pipestone |
| 49 | 69 | 58.5\% | 142 | 22 | 13.4\% | 301 | 13 | 4.1\% | 538 | 196 | 26.7\% | Red Wing |
| 23 | 235 | 91.1\% | 72 | 11 | 13.3\% | 354 | 16 | 4.3\% | 498 | 872 | 63.6\% | Rochester |
| 90 | 403 | 31.7\% | 164 | 14 | 7.9\% | 852 | 98 | 10.3\% | 1,307 | 862 | 39.7\% | St. Cloud |
| 146 | 469 | 76.3\% | 596 | 81 | 12.0\% | 1,386 | 336 | 19.5\% | 2,165 | 1,348 | 38.4\% | St. Paul |
| 0 | 20 | 100.0\% | -- | -- | -- | 564 | 85 | 13.1\% | 617 | 105 | 14.5\% | Staples |
| 138 | 575 | 80.6\% | 585 | 75 | 11.4\% | 2,466 | 511 | 17.2\% | 3,532 | 1,791 | 33.6\% | Suburban Hennepin |
| 13 | 84 | 86.6\% | 74 | 16 | 17.8\% | 297 | 79 | 21.0\% | 421 | 215 | 33.3\% | Thief River Falls |
| 37 | 139 | 79.0\% | 96 | 7 | 6.8\% | 287 | 106 | 27.0\% | 423 | 273 | 39.2\% | Wadena |
| 31 | 357 | 92.0\% | 78 | 3 | 3.7\% | 552 | 251 | 31.3\% | 955 | 919 | 49.0\% | Willmar |
| 17 | 101 | 85.6\% | 47 | 3 | 6.0\% | 302 | 84 | 21.8\% | 428 | 315 | 42.4\% | Winona |
| 1,755 | 7,891 | 81.8\% | 3,714 | 538 | 12.7\% | 18,427 | 3,476 | 15.9\% | 27,942 | 20,103 | 41.8\% | TOTAL |


| Curriculum Area | Number of Programs* Which Are: |  |  | Total | Percent <br> Integrated |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Integrated |  |  |
| Agriculture | 8 | 0 | 7 | 15 | 46.7\% |
| Distribution | 5 | 4 | 11 | 20 | 55.0 \% |
| Heal th | 2 | 13 | 2 | 17 | 11.8 \% |
| Home Economics | 0 | 4 | 4 | 8 | 50.0 \% |
| Business-Office | 0 | 16 | 7 | 23 | 30.4 \% |
| Technical | 14 | 0 | 7 | 21 | 33.3 \% |
| Trade-Industrial | 47 | 1 | 18 | 66 | 27.3 \% |
| TOTAL PROGRAMS | 76 | 38 | 56 | 170 | 32.9 \% |

table 9. Curriculum area by program type: number of students

| Curriculum Area | Number of Students in Programs* Which Are: |  |  |  | Percent In Integrated |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Fernale | Integrated | Total |  |
| Agriculture | 1,478 | 0 | 707 | 2,185 | 32.4 \% |
| Distribution | 276 | 1,054 | 2,113 | 3,443 | 61.4\% |
| Health | 169 | 5,184 | 249 | 5,602 | $4.4 \%$ |
| Home Economics | 0 | 735 | 284 | 1,019 | 27.9 \% |
| Business-Office | 0 | 5,507 | 4,139 | 9,646 | $42.9 \%$ |
| Technical | 3,622 | 0 | 630 | 4,252 | 14.8 \% |
| Trade-Industrial | 17,094 | 1,011 | 3,798 | 21,903 | 17.3 \% |
| TOTAL STUDENTS | 22,639 | 13,491 | 11,920 | 48,050 | 24.8 \% |

[^0]TABLE 10. ENROLLMENTS BY COURSE BY CURRICULUM AREA, 1980-81

## AGRICULTURE

| OE Code | Course | Male | Female | Total | Percent Male | Percent Female | Course Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 010100 | Agricultural Production | 524 | 13 | 537 | 97.6\% | 2.4 \% | Male |
| 010101 | Animal Science | 31 | 46 | 77 | 40.3 \% | 59.7 \% | Integrated |
| 010104 | Farm Management | 119 | 1 | 120 | 99.2 \% | 0.8 \% | Male |
| 010200 | Agricultural Supplies/Services | 278 | 51 | 329 | 84.5 \% | 15.5 \% | Male |
| 010299 | Farrier | 20 | 8 | 28 | 71.4 \% | 28.6 \% | Integrated |
| 010300 | Agricultural Mechanics | 275 | 1 | 276 | 99.6\% | $0.4 \%$ | Male |
| 010301 | Water Well Drilling | 19 | 0 | 19 | 100.0 \% | $0.0 \%$ | Male |
| 010302 | Agricultural Structures \& Conven. | 56 | 0 | 56 | 100.0 \% | 0.0 \% | Male |
| 010500 | Ornamental Horticulture | 33 | 84 | 117 | 28.2 \% | 71.8 \% | Integrated |
| 010501 | Specialty Crop Production | 21 | 9 | 30 | 70.0 \% | 30.0\% | Integrated |
| 010502 | Floriculture | 16 | 26 | 42 | 38.1 \% | 61.9 \% | Integrated |
| 010504 | Landscaping | 227 | 104 | 331 | 68.6 \% | 31.4 \% | Integrated |
| 010600 | Agricultural Resources | 62 | 20 | 82 | 75.6 \% | 24.4 \% | Integrated |
| 010603 | Soil | 18 | 1 | 19 | 94.7\% | 5.3\% | Male |
| 010703 | Forest Harvesting, Logging | 110 | 12 | 122 | 90.2\% | 9.8\% | Male |
| TOTAL |  | 1,809 | 376 | 2,185 | 82.8 \% | 17.2 \% |  |

TABLE 10, CONTINUED

## DISTRIBUTION

| OE Code | Course | Male | Female | Total | Percent Male | Percent Female | Course Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 040100 | Advertising | 33 | 92 | 125 | 26.4 \% | 73.6 \% | Integrated |
| 040200 | Apparel \& Accessories | 24 | 508 | 532 | 4.5 \% | 95.5\% | Female |
| 040400 | Finance \& Credit | 22 | 39 | 61 | 36.1 \% | 63.9 \% | Integrated |
| 040500 | Floristry | 3 | 78 | 81 | 3.7 \% | 96.3\% | Female |
| 040600 | Food Distribution | 124 | 46 | 170 | 72.9\% | 27.1 \% | Integrated |
| 040800 | General Merchandising | 700 | 629 | 1,329 | 52.7 \% | 47.3\% | Integrated |
| 040801 | Small Business Management | 21 | 13 | 34 | 61.8 \% | 38.2 \% | Integrated |
| 040900 | Hardware - Building Materials | 78 | 20 | 98 | 79.6 \% | 20.4 \% | Integrated |
| 041000 | Home Furnishings | 19 | 294 | 313 | 6.1 \% | 93.9\% | Female |
| 041100 | Hotel and Lodging | 39 | 30 | 69 | 56.5 \% | 43.5\% | Integrated |
| 041200 | Industrial Marketing | 53 | 24 | 77 | 68.8 \% | 31.2\% | Integrated |
| 041201 | Vending Machine Repair \& Merchand. | 94 | 7 | 101 | 93.1\% | 6.9 \% | Male |
| 041400 | International Trade | 27 | 40 | 67 | 40.3\% | 59.7 \% | Integrated |
| 041600 | Petroleum/Service Station | 42 | 3 | 45 | 93.3\% | $6.7 \%$ | Male |
| 041700 | Real Estate | 13 | 4 | 17 | 76.5 \% | 23.5 \% | Integrated |
| 041800 | Arena Mgmt, Recreation/Tourism | 13 | 0 | 13 | 100.0 \% | 0.0 \% | Male |
| 041801 | Sporting Goods | 47 | 9 | 56 | 83.9 \% | 16.1 \% | Male |
| 041802 | Travel Planner | 10 | 118 | 128 | 7.8 \% | 92.2 \% | Female |
| 041900 | Transportation | 49 | 12 | 61 | 80.3 \% | 19.7 \% | Male |
| 042200 | General Merchandising Occupations | 48 | 18 | 66 | 72.7 \% | 27.3 \% | Integrated |
| TOTAL |  | 1,459 | 1,984 | 3,443 | 42.4\% | 57.6 \% |  |
| HEALTH |  |  |  |  |  |  |  |
| OE Code | Course | Male | Female | Total | Percent Male | Percent Female | Course Typer |
| 070101 | Dental Assistant | 25 | 516 | 541 | 4.6 \% | 95.4\% | Female |
| 070103 | Dental Lab Technician | 69 | 93 | 162 | 42.6\% | 57.4 \% | Integrated |
| 070203 | Medical Lab Assistant | 28 | 243 | 271 | 10.3\% | 89.7 \% | Female |
| 070205 | Ward Clerk | 19 | 517 | 536 | 3.5 \% | 96.5 \% | Female |
| 070302 | Nursing LPN | 97 | 1,885 | 1,982 | 4.9\% | 95.1\% | Female |
| 070303 | Nursing Assistant | 107 | 902 | 1,009 | 10.6 \% | 89.4\% | Female |
| 070304 | Human Services Technician | 11 | 117 | 128 | 8.6 \% | 91.4\% | Female |
| 070305 | Surgical Technician | 17 | 139 | 156 | 10.9 \% | 89.1 \% | Female |
| 070401 | Occupational Therapy | 10 | 165 | 175 | 5.7 \% | 94.3\% | Female |
| 070403 | Orthotics \& Prosthetics Technician | 95 | 17 | 112 | 84.8 \% | 15.2 \% | Male |
| 070603 | Optometric Assistant | 0 | 61 | 61 | 0.0 \% | 100.0\% | Female |
| 070901 | Electroencephalograph Technician | 3 | 14 | 17 | 17.6 \% | 82.4 \% | Female |
| 070903 | Inhalation Therapist | 26 | 61 | 87 | 29.9 \% | 70.1 \% | Integrated |
| 070904 | Medical Assistant | 2 | 172 | 174 | 1.1 \% | 98.9 \% | Female |
| 070905 | Central Service Technician | 12 | 66 | 78 | 15.4\% | 84.6 \% | Female |
| 070907 | EMT - Paramedic | 48 | 9 | 57 | 84.2 \% | 15.8 \% | Male |
| 070911 | Pharmacy Technician | 5 | 51 | 56 | 8.9 \% | 91.1\% | Female |
| TOTAL |  | 574 | 5,028 | 5,602 | 10.2 \% | 89.8\% |  |
| HOME ECONOMICS |  |  |  |  |  |  |  |
| OE Code | Course | Male | Female | Total | Percent Male | Percent Female | Course Type |
| 090101 | Consumer Homemaking | 41 | 18 | 59 | 69.5 \% | $30.5 \%$ | Integrated |
| 090201 | Care $\varepsilon$ Guidance of Children | 5 | 343 | 348 | 1.4 \% | 98.6 \% | Female |
| 090202 | Clothing Mgmt, Production \& Serv. | 30 | 187 | 217 | 13.8 \% | 86.2 \% | Female |
| 090203 | Food Management | 84 | 50 | 134 | 62.7 \% | 37.3\% | Integrated |
| 090206 | Pers Sve/Fashions, Fabrics \& Notions | 0 | 17 | 17 | 0.0 \% | 100.0\% | Female |
| 090207 | Dietetic Assistant | 2 | 151 | 153 | 1.3 \% | 98.7 \% | Female |
| 090211 | Delicatessen \& Catering | 22 | 22 | 44 | 50.0 \% | $50.0 \%$ | Integrated |
| 090212 | Comm Svc/Wilderness Guide/Educ Devel | 20 | 27 | 47 | 42.6 \% | 57.4 \% | Integrated |
| TOTAL |  | 204 | 815 | 1,019 | 20.0 \% | 80.0\% |  |
| BUSINESS \& OFFICE |  |  |  |  |  |  |  |
| OE Code | Course | Male | Female | Total | Percent Male | Percent Female | Course Typ |
| 140100 | Accounting | 630 | 1,572 | 2,202 | 28.6 \% | 71.4 \% | Integrated |
| 140102 | Bookkeeping | 17 | 107 | 124 | 13.7 \% | 86.3 \% | Female |
| 140105 | Banking \& Finance | 37 | 190 | 227 | 16.3 \% | 83.7\% | Female -33- |


| OE Code | Course | Male | Female | Total |
| :---: | :---: | :---: | :---: | :---: |
| 140199 | Practical Business Management | 61 | 73 | 134 |
| 140201 | EDP \& Programming/Computer Operations | - 233 | 311 | 544 |
| 140202 | Data Entry | 14 | 251 | 265 |
| 140203 | Data Processing \|l/Comp. Programming | 494 | 497 | 991 |
| 140304 | Word Processing | 1 | 45 | 46 |
| 140305 | Business \& Office Clerk/Typist | 51 | 1,659 | 1,710 |
| 140308 | Medical Clerical | 0 | 12 | 12 |
| 140406 | Receptionist | 0 | 66 | 66 |
| 140499 | Medical Records Technician | 1 | 72 | 73 |
| 140503 | Purchasing \& Inventory Clerk | 31 | 26 | 57 |
| 140505 | Traffic Office Clerk | 58 | 41 | 99 |
| 140601 | Educational Aide | 0 | 53 | 53 |
| 140701 | Administrative Secretary | 0 | 23 | 23 |
| 140703 | Stenographic/Clerical | 3 | 206 | 209 |
| 140704 | Court Reporter | 1 | 53 | 54 |
| 140705 | General Secretarial | 20 | 1,562 | 1,582 |
| 140707 | Legal Secretary | 4 | 471 | 475 |
| 140709 | Medical Secretary | 3 | 494 | 497 |
| 140801 | Rural Banking Credit | 88 | 24 | 112 |
| 140901 | Clerk/Typist | 8 | 83 | 91 |
| TOTAL |  | 1,755 | 7,891 | 9,646 |

TECHNICAL

| OE Code | Course | Male | Female | Total |
| :---: | :---: | :---: | :---: | :---: |
| 160101 | Aeronautical Technology | 69 | 20 | 89 |
| 160103 | Architectural Technology | 280 | 69 | 349 |
| 160105 | Chemical Technology | 45 | 30 | 75 |
| 160106 | Civil Technology | 243 | 45 | 288 |
| 160107 | Cable TV/Electrical Technology | 67 | 3 | 70 |
| 160108 | Electronics Technology | 1,399 | 131 | 1,530 |
| 160109 | Electro-Mechanical Technology | 280 | 22 | 302 |
| 160110 | Environmental Technology | 91 | 28 | 119 |
| 160111 | Industrial Technology | 121 | 10 | 131 |
| 160112 | Instrumentation Technology | 72 | 7 | 79 |
| 160113 | Quality Control/Mechanical Technoloqy | 117 | 18 | 135 |
| 160114 | Metallurgical Technology | 155 | 15 | 170 |
| 160115 | Nuclear Technology | 16 | 7 | 23 |
| 160118 | Tool Engineering \& Design | 31 | 12 | 43 |
| 160203 | Food Lab Management | 31 | 51 | 82 |
| 160300 | Electro-Medical Technology | 97 | 13 | 110 |
| 160701 | Avionics - Aviation Electronics | 65 | 4 | 69 |
| 16.0703 | Electronic Communications Technology | 36 | 0 | 36 |
| 160704 | Communications Technology | 155 | 44 | 199 |
| 160705 | Fluid Power Technology | 318 | 9 | 327 |
| 160706 | Powder Metal Technology | 26 | 0 | 26 |
| TOTAL | - 30, ${ }^{\text {a }}$ | 3,714 | 538 | 4,252 |


| Percent Male | Percent Female | Course Type |
| :---: | :---: | :---: |
| 45.5\% | 54.5 \% | Integrated |
| 42.8\% | 57.2 \% | Integrated |
| $5.3 \%$ | 94.7\% | Female |
| 49.8\% | 50.2\% | Integrated |
| 2.2 \% | 97.8 \% | Female |
| 3.0\% | 97.0\% | Female |
| 0.0 \% | 100.0 \% | Female |
| 0.0 \% | 100.0 \% | Female |
| $1.4 \%$ | 98.6 \% | Female |
| 54.4 \% | 45.6 \% | Integrated |
| 58.6 \% | 41.4 \% | Integrated |
| 0.0 \% | 100.0 \% | Female |
| $0.0 \%$ | 100.0 \% | Female |
| $1.4 \%$ | 98.6\% | Female |
| $1.9 \%$ | 98.1 \% | Female |
| $1.3 \%$ | 98.7 \% | Female |
| 0.8 \% | 99.2 \% | Female |
| 0.6 \% | 99.4\% | Female |
| 78.6 \% | 21.4 \% | Integrated |
| 8.8 \% | 91.2\% | Female |
| 18.2 \% | 81.8\% |  |


| Percent <br> Male | Percent <br> Female | Course Type |
| :---: | :---: | :---: |
| 77.5 \% | 22.5 \% | Integrated |
| 80.2 \% | 19.8 \% | Male |
| 60.0\% | 40.0 \% | Integrated |
| 84.4\% | 15.6 \% | Male |
| 95.7\% | $4.3 \%$ | Male |
| 91.4\% | 8.6 \% | Male |
| 92.7\% | 7.3 \% | Male |
| 76.5 \% | 23.5 \% | Integrated |
| 92.4\% | 7.6 \% | Male |
| 91.1\% | 8.9 \% | Male |
| 86.7 \% | 13.3 \% | Male |
| 91.2 \% | 8.8 \% | Male |
| 69.6 \% | 30.4 \% | Integrated |
| 72.1 \% | 27.9 \% | Integrated |
| 37.8 \% | 62.2 \% | Integrated |
| 88.2 \% | 11.8 \% | Male |
| 94.2 \% | $5.8 \%$ | Male |
| 100.0 \% | 0.0 \% | Male |
| 77.9 \% | 22.1 \% | Integrated |
| 97.2 \% | 2.8 \% | Male |
| 100.0 \% | 0.0 \% | Male |
| 87.3\% | 12.7 \% |  |

TRADE-INDUSTRIAL


| OE Code | Course | Male | Female | Total |
| :---: | :---: | :---: | :---: | :---: |
| 171001 | Carpentry | 944 | 30 | 974 |
| 171002 | Electricity | 897 | 28 | 925 |
| 171003 | Heavy Equipment | 194 | 4 | 198 |
| 171004 | Masonry | 69 | 0 | 69 |
| 171005 | Painting \& Decorating | 112 | 16 | 128 |
| 171007 | Plumbing | 224 | 8 | 232 |
| 171011 | Maintenance Mechanic/Housing | 303 | 4 | 307 |
| 171012 | Heavy Equipmt Operation \& Maintenance | e 292 | 2 | 294 |
| 171014 | Mobile Home Repair | 81 | 2 | 83 |
| 171100 | Custodial \& Buildinq Maintenance | 179 | 11 | 190 |
| 171200 | Diesel \& Truck Mechanic | 787 | 9 | 796 |
| 171201 | Truck Driving | 540 | 63 | 603 |
| 171301 | Architectural Drafting | 288 | 52 | 340 |
| 171302 | Mechanical Drafting | 607 | 144 | 751 |
| 171303 | Technical Drafting/Mechanical Trades | 43 | 18 | 61 |
| 171304 | Constructn Drafting/Planning \& Mgmt | 96 | 23 | 119 |
| 171402 | Lineperson | 108 | 0 | 108 |
| 171403 | Motor Repair | 31 | 1 | 32 |
| 171501 | Communications | 172 | 14 | 186 |
| 171502 | Industrial Electronics | 153 | 39 | 192 |
| 171503 | Radio/Television | 173 | 22 | 195 |
| 171900 | Graphic Arts | 638 | 508 | 1,146 |
| 171902 | Printing Press Occupations | 38 | 31 | 69 |
| 172101 | Optical Technology/Instruments | 34 | 30 | 64 |
| 172102 | Watchmaking \& Repair | 19 | 2 | 21 |
| 172302 | Machine Shop | 991 | 69 | 1,060 |
| 172303 | Machine Tool Operation | 258 | 12 | 270 |
| 172305 | Sheet Metal | 155 | 1 | 156 |
| 172306 | Welding \& Cutting | 1,550 | 47 | 1,597 |
| 172307 | Tool and Die Making | 567 | 18 | 585 |
| 172309 | Patternmaking | 29 | 1 | 30 |
| 172399 | Jewelry Repair | 16 | 15 | 31 |
| 172601 | Barbering | 19 | 15 | 34 |
| 172602 | Cosmetology | 49 | 962 | 1,011 |
| 172700 | Plastics Occupations | 64 | 1 | 65 |
| 172802 | Law Enforcement | 223 | 37 | 260 |
| 172901 | Baking | 42 | 59 | 101 |
| 172902 | Food Preparation Cooking | 683 | 397 | 1,085 |
| 172903 | Meat Cutting | 201 | 1 | 202 |
| 172904 | Waiter/Waitress | 5 | 4 | 9 |
| 172999 | Kitchen Assistant | 14 | 22 | 36 |
| 173100 | Small Engine Repair | 503 | 20 | 523 |
| 173200 | Total Energy | 16 | 0 | 16 |
| 173302 | Tailoring | 31 | 85 | 116 |
| 173402 | Shoe Repair | 24 | 5 | 29 |
| 173500 | Upholstery | 66 | 51 | 117 |
| 173601 | Millwork \& Cabinetmaking | 259 | 34 | 293 |
| 173699 | Wood Finishing | 14 | 9 | 23 |
| 174001 | Musical String Instrument Repair | 19 | 0 | 19 |
| 174002 | Band Instrument Repair | 26 | 5 | 31 |
| 174003 | Electronic Musical Instrument | 31 | 0 | 31 |
| $17 \times X X X$ | Unspecified | 28 | 1 | 29 |
| TOTAL |  | 18,427 | 3,476 | 21,903 |


| Percent Male | Percent <br> Female | Course Type |
| :---: | :---: | :---: |
| 96.9\% | 3.1\% | Male |
| 97.0 \% | 3.0 \% | Male |
| 98.0 \% | 2.0 \% | Male |
| 100.0 \% | 0.0 \% | Male |
| 87.5 \% | 12.5 \% | Male |
| 96.6 \% | 3.4 \% | Male |
| 98.7 \% | $1.3 \%$ | Male |
| 99.3\% | 0.7 \% | Male |
| 97.6 \% | 2.4 \% | Male |
| 94.2 \% | 5.8 \% | Male |
| 98.9 \% | 1.1 \% | Male |
| 89.6 \% | 10.4 \% | Male |
| 84.7 \% | 15.3\% | Male |
| 80.8 \% | 19.2 \% | Male |
| 70.5 \% | 29.5 \% | Integrated |
| 80.7 \% | 19.3 \% | Male |
| 100.0 \% | 0.0 \% | Male |
| 96.9 \% | 3.1\% | Male |
| 92.5 \% | 7.5 \% | Male |
| 79.7 \% | 20.3 \% | Integrated |
| 88.7 \% | 11.3 \% | Male |
| 55.7 \% | 44.3 \% | Integrated |
| 55.1\% | 44.9 \% | Integrated |
| 53.1 \% | 46.9 \% | Integrated |
| 90.5 \% | 9.5\% | Male |
| 93.5 \% | 6.5 \% | Male |
| 95.6\% | 4.4 \% | Male |
| 99.4 \% | 0.6 \% | Male |
| 97.1 \% | 2.9 \% | Male |
| 96.9 \% | 3.1\% | Male |
| 96.7 \% | 3.3 \% | Male |
| 51.6 \% | 48.4\% | Integrated |
| 55.9 \% | 44.1 \% | Integrated |
| 4.8 \% | 95.2 \% | Female |
| 98.5 \% | 1.5 \% | Male |
| 85.8\% | 14.2 \% | Male |
| 41.6 \% | 58.4 \% | Integrated |
| 63.4 \% | 36.6 \% | Integrated |
| 99.5 \% | 0.5 \% | Male |
| 55.6 \% | 44.4 \% | Integrated |
| 38.9 \% | 61.1 \% | Integrated |
| 96.2 \% | 3.8 \% | Male |
| 100.0 \% | 0.0 \% | Male |
| 26.7 \% | 73.3 \% | Integrated |
| 82.8\% | 17.2 \% | Male |
| 56.4 \% | 43.6 \% | Integrated |
| 88.4 \% | 11.6 \% | Male |
| 60.9 \% | 39.1 \% | Integrated |
| 100.0 \% | 0.0 \% | Male |
| 83.9 \% | 16.1\% | Male |
| 100.0 \% | 0.0\% | Male |
| 96.6 \% | 3.4\% | Male |
| 84.1 \% | 15.9 \% |  |
| Percent Male | Percent Female | Course Type |
| 41.7 \% | 58.3 \% | Integrated |
| 49.3\% | 50.7 \% | Integrated |
| 59.3 \% | 40.7 \% | Integrated |
| 52.5 \% | 47.5 \% | Integrated |
| 74.4 \% | 25.6 \% | Integrated |
| 58.4 \% | 41.6 \% | Integrated |
| 53.6 \% | 46.4 \% | Integrated |
| 57.0 \% | 43.0\% |  |

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Integrated Integrated Male Integrated Male Integrated Male
Integrated Male Male Male
Male

Course Type
Integrated Integrated Integrated Integrated Integrated
table 11. program budgets, 1980-81

| AVTI | Total |  | Male Students |  | Female Students |  | BudgetPercent Female | Students- <br> Percent <br> Female |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Albert Lea | \$ | 937,968 | \$ | 649,864 | \$ | 288,104 | 30.7 \% | 33.3 \% |
| Alexandria |  | 3,330,810 |  | 2,067,011 |  | 1,263,799 | 37.9 \% | 44.9 \% |
| Anoka |  | 3,743,572 |  | 2,435,280 |  | 1,308,292 | 34.9 \% | 42.1 \% |
| Austin |  | 1,256,140 |  | 901,637 |  | 354,503 | 28.2 \% | 34.9 \% |
| Bemidji |  | 1,170,036 |  | 807,496 |  | 362,540 | 31.0 \% | 46.8 \% |
| Brainerd |  | 1,298,219 |  | 624,580 |  | 673,639 | 51.9 \% | $47.2 \%$ |
| Canby |  | 907,706 |  | 629,144 |  | 278,562 | 30.7 \% | 30.1 \% |
| Dakota County |  | 4,163,315 |  | 2,770,670 |  | 1,392,645 | 33.5 \% | $42.3 \%$ |
| Detroit Lakes |  | 1,526,836 |  | 1,091,904 |  | 434,932 | 28.5 \% | 27.2 \% |
| Duluth |  | 2,289,878 |  | 1,395,644 |  | 894,234 | 39.1 \% | 50.2 \% |
| East Grand Forks |  | 1,090,645 |  | 558,574 |  | 532,071 | 48.8 \% | 53.5 \% |
| Eveleth |  | 585,669 |  | 304,946 |  | 280,723 | 47.9 \% | 54.0\% |
| Faribault |  | 904,394 |  | 518,615 |  | 386,279 | 42.7 \% | $40.9 \%$ |
| Granite Falls |  | 898,405 |  | 553,174 |  | 345,231 | 38.4 \% | 50.0\% |
| Hibbing |  | 901,015 |  | 581,494 |  | 319,521 | 35.5 \% | 37.5 \% |
| Hutchinson |  | 1,323,030 |  | 854,136 |  | 468,894 | 35.4 \% | $42.3 \%$ |
| Jackson |  | 1,164,289 |  | 827,428 |  | 336,861 | 28.9 \% | 28.9 \% |
| Mankato |  | 2,390,147 |  | 1,351,077 |  | 1,039,070 | 43.5 \% | 47.4 \% |
| Minneapolis |  | 2,702,082 |  | 1,478,088 |  | 1,223,994 | 45.3 \% | $45.9 \%$ |
| Moorhead |  | 1,752,917 |  | 1,121,809 |  | 631,108 | 36.0 \% | $44.9 \%$ |
| 916 |  | 3,956,507 |  | 2,317,123 |  | 1,639,384 | 41.4 \% | 48.4 \% |
| Pine City |  | 626,607 |  | 497,762 |  | 128,845 | 20.6 \% | 29.9 \% |
| Pipestone |  | 881,896 |  | 585,381 |  | 296,515 | 33.6 \% | 32.7 \% |
| Red Wing |  | 1,189,661 |  | 885,782 |  | 303,879 | 25.5 \% | 26.7 \% |
| Rochester |  | 1,826,480 |  | 762,023 |  | 1,064,457 | 58.3 \% | $63.6 \%$ |
| St. Cloud |  | 2,643,966 |  | 1,595,979 |  | 1,047,987 | 39.6 \% | 39.7 \% |
| St. Paul |  | 3,824,597 |  | 2,425,369 |  | 1,399,228 | 36.6 \% | 38.4\% |
| Staples |  | 2,175,831 |  | 1,945,736 |  | 230,095 | 10.6 \% | 14.5 \% |
| Suburban Hennepin |  | 7,825,038 |  | 5,551,056 |  | 2,273,982 | 29.1 \% | 33.6 \% |
| Thief River Falls |  | 922,632 |  | 660,091 |  | 262,541 | 28.5 \% | 33.8 \% |
| Wadena |  | 1,027,293 |  | 717,073 |  | 310,220 | 30.2 \% | 39.2 \% |
| Willmar |  | 2,581,359 |  | 1,494,163 |  | 1,087,196 | 42.1 \% | $49.0 \%$ |
| Winona |  | 948,529 |  | 602,930 |  | 345,599 | 36.4 \% | 42.4\% |
| TOTAL | \$ | 64,767,969 | \$ | 41,563,039 | \$ | 23,204,930 | 35.8 \% | $41.3 \%$ |

table 12. program cost per student, 1980-81

| AVTI | Cost per Student |  |  | F/M Ratio |
| :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Total |  |
| Albert Lea | \$ 1,491 | \$ 1,322 | \$ 1,434 | 88.7 \% |
| Alexandria | 2,098 | 1,576 | 1,864 | 75.1 \% |
| Anoka | 1,480 | 1,093 | 1,317 | 73.9 \% |
| Austin | 1,796 | 1,318 | 1,629 | 73.4 \% |
| Bemidji | 2,314 | 1,439 | 2,171 | 51.1 \% |
| Brainerd | 1,429 | 1,727 | 1,570 | 120.9 \% |
| Canby | 1,856 | 1,908 | 1,872 | 102.8 \% |
| Dakota County | 2,428 | 1,666 | 2,106 | 68.6 \% |
| Detroit Lakes | 1,395 | 1,484 | 1,419 | 106.4 \% |
| Duluth | 1,229 | 782 | 1,005 | 63.6\% |
| East Grand Forks | 1,186 | 983 | 1,078 | 82.9 \% |
| Eveleth | 1,466 | 1,151 | 1,296 | 78.5 \% |
| Faribault | 1,723 | 1,857 | 1,778 | 107.8 \% |
| Granite Falls | 2,103 | 1,313 | 1,708 | 62.4 \% |
| Hibbing | 1,443 | 1,320 | 1,397 | 91.5\% |
| Hutchinson | 1,886 | 1,412 | 1,685 | 74.9 \% |
| Jackson | 1,320 | 1,321 | 1,320 | 100.1\% |
| Mankato | 1,307 | 1,115 | 1,216 | 85.3\% |
| Minneapolis | 938 | 917 | 928 | $97.8 \%$ |
| Moorhead | 1,885 | 1,301 | 1,623 | 69.0 \% |
| 916 | 891 | 672 | 785 | 75.4 \% |
| Pine City | 1,893 | 1,150 | 1,671 | 60.8 \% |
| Pipestone | 1,025 | 1,067 | 1,039 | 104.1\% |
| Red Wing | 1,646 | 1,550 | 1,621 | 94.2 \% |
| Rochester | 1,530 | 1,221 | 1,333 | 79.8 \% |
| St. Cloud | 1,221 | 1,216 | 1,219 | $99.6 \%$ |
| St. Paul | 1,120 | 1,038 | 1,089 | 92.7\% |
| Staples | 3,154 | 2,191 | 3,014 | 69.5 \% |
| Suburban Hennepin | 1,572 | 1,270 | 1,470 | 80.8\% |
| Thief River Falls | 1,568 | 1,221 | 1,451 | 77.9 \% |
| Wadena | 1,695 | 1,136 | 1,476 | 67.0\% |
| Willmar | 1,565 | 1,183 | 1,377 | 75.6 \% |
| Winona | 1,409 | 1,097 | 1,277 | 77.9 \% |
| TOTAL | \$ 1,487 | \$ 1,154 | \$1,348 | 77.6 \% |

table 13. POSt-secondary vocational teachers, 1980-81

| AVTI | \# Male Teachers (FTE) | \# Female Teachers (FTE) | \# Total Teachers (FTE) | \% Female Teachers |
| :---: | :---: | :---: | :---: | :---: |
| Albert Lea | 31.0 | 8.0 | 39.0 | 20.5 \% |
| Alexandria | 85.0 | 22.0 | 107.0 | 20.6 \% |
| Anoka | 102.0 | 48.0 | 150.0 | 32.0\% |
| Austin | 38.0 | 12.0 | 50.0 | 24.0 \% |
| Bemidji | 33.0 | 13.2 | 46.2 | 28.6 \% |
| Brainerd | 38.0 | 18.0 | 56.0 | 32.1\% |
| Canby | 29.2 | 6.0 | 35.2 | 17.0 \% |
| Dakota County | 86.0 | 31.2 | 117.2 | 26.6 \% |
| Detroit Lakes | 54.0 | 11.0 | 65.0 | 16.9 \% |
| Duluth | 50.0 | 24.5 | 74.5 | 32.9.\% |
| East Grand Forks | 25.5 | 24.0 | 49.5 | 52.7 \% |
| Eveleth | 17.0 | 8.0 | 25.0 | 32.0 \% |
| Faribault | 30.0 | 10.0 | 40.0 | 25.0 \% |
| Granite Falls | 28.7 | 7.4 | 36.1 | 20.5 \% |
| Hibbing | 27.0 | 9.0 | 36.0 | 25.0 \% |
| Hutchinson | 34.0 | 14.6 | 48.6 | 30.0\% |
| Jackson | 38.7 | 2.2 | 40.9 | 5.4\% |
| Mankato | 68.0 | 23.8 | 91.8 | 25.9 \% |
| Minneapolis | 61.0 | 33.9 | 94.9 | 35.7 \% |
| Moorhead | 47.4 | 19.8 | 67.2 | 29.5 \% |
| 916 | 75.1 | 40.3 | 115.4 | 34.9 \% |
| Pine City | \% | * | * | * |
| Pipestone | 32.5 | 7.0 | 39.5 | 17.7\% |
| Red Wing | 33.0 | 10.2 | 43.2 | 23.6 \% |
| Rochester | 32.0 | 42.8 | 74.8 | 57.2 \% |
| St. Cloud | 68.2 | 30.0 | 98.2 | 30.5 \% |
| St. Paul | 113.4 | 65.0 | 178.4 | 36.4\% |
| Staples | 39.6 | 2.4 | 42.0 | 5.7 \% |
| Suburban Hennepin | 1.53 .4 | 37.3 | 190.7 | 20.0 \% |
| Thief River Falls | 32.4 | 12.4 | 44.8 | 27.7 \% |
| Wadena | 33.6 | 6.2 | 39.8 | 15.6\% |
| Willmar | 82.0 | 32.1 | 114.1 | 28.1 \% |
| Winona | 29.0 | 13.6 | 42.6 | 31.9 \% |
| TOTAL | 1,647.7 | 645.9 | 2,293.6 | 28.2 \% |


| AVTI | Average Annual Salary |  | Average Years Service |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Males | Females |
| Albert Lea | \$ 22,585 | \$ 15,571 | 8.7 yrs | 5.8 yrs |
| Alexandria | 21,476 | 14,693 | 10.0 | 6.9 |
| Anoka | 23,442 | 18,164 | 9.2 | 9.2 |
| Austin | 21,109 | 19,320 | 13.7 | 9.9 |
| Bemidji | 20,671 | 16,669 | 8.9 | 7.3 |
| Brainerd | 20,229 | 17,825 | 10.5 | 9.9 |
| Canby | 21,420 | 12,849 | 11.0 | 9.8 |
| Dakota County | 20,295 | 18,675 | 7.3 | 6.2 |
| Detroit Lakes | 20,291 | 17,502 | 9.0 | 8.8 |
| Duluth | 19,469 | 17,426 | 11.6 | 10.5 |
| East Grand Forks | 18,073 | 11,903 | 18.8 | 12.5 |
| Eveleth | 18,866 | 17,316 | 9.2 | 8.1 |
| Faribault | 21,992 | 18,489 | 11.5 | 10.8 |
| Granite Falls | 19,397 | 14,865 | 10.2 | 9.4 |
| Hibbing | 21,049 | 21,273 | 7.6 | 10.3 |
| Hutchinson | 19,652 | 16,715 | 12.6 | 13.5 |
| Jackson | 22,738 | 12,480 | 13.0 | 7.0 |
| Mankato | 23,165 | 18,068 | 8.2 | 6.3 |
| Minneapolis | 26,124 | 24,606 | 12.9 | 10.4 |
| Moorhead | 22,617 | 17,830 | 10.7 | 11.1 |
| 916 | 22,993 | 20,497 | 6.6 | 5.9 |
| Pine City | * | * | * | * |
| Pipestone | 22,347 | 16,682 | 11.0 | 7.3 |
| Red Wing | 21,254 | 18,994 | 8.9 | 15.1 |
| Rochester | 20,676 | 17,497 | 17.0 | 14.1 |
| St. Cloud | 23,286 | 19,183 | 12.5 | 11.3 |
| St. Paul | 24,732 | 19,445 | 12.7 | 11.5 |
| Staples | 24,932 | 16,746 | 8.1 | 18.0 |
| Suburban Hennepin | 25,828 | 20,900 | 8.1 | 5.7 |
| Thief River Falls | 20,648 | 15,544 | 13.6 | 9.0 |
| Wadena | 19,792 | 15,648 | 8.2 | 4.3 |
| Willmar | 23,843 | 19,101 | 14.4 | 9.3 |
| Winona | 21,639 | 17,963 | 11.1 | 9.6 |
| TOTAL | \$ 22,480 | \$ 18,366 | 10.3 yrs | 10.3 yrs |

## Definitions

All data in this report are from the Minnesota Department of Education, as reported by local school districts. Student and staff information is for the school year July 1,1980 to June 30, 1981 and previous years. Staff information is as reported on October 1, 1980, and previous years. In this report, the following definitions are used:

Headcount. The annual headcount includes every student enrolled in an AVTI during the year, and does not control for the amount of time a student is enrolled.

Program. For the purposes of this report, programs have been limited to courses of study related to an occupation such as Health Aide or Welding. Special needs programs and other administrative and support programs have not been included except where designated. In counting the number of programs statewide, a similar course offered at two different AVTls is considered two programs.

Curriculum Area or Cluster. Curriculum areas or clusters are groupings of programs into seven areas: Agriculture, Distribution, Health, Home Economics, Business and Office, Technical, and Trade-Industry.

Segregated Programs. Programs are considered segregated if over 80 percent of their enrollments are of one sex.

Integrated Programs. A program which is not segregated is considered integrated.
"Male" Programs. A segregated program is considered a "male" program if over 80 percent of the students are male. Since this definition is based on actual enrollments, a program may be a "male" program at one AVTI, but an integrated program at another.
"Female" Programs. A segregated program is considered a "female" program if over 80 percent of the students are female.

Traditional. If a female student is enrolled in a program in which over 80 percent of students are female, she is considered enrolled in a traditional program. Similarly a male student enrolled in a program which is over 80 percent male is considered enrolled in a traditional program. Students in traditional programs are referred to as traditional students.

Non-traditional. If a male or a female student is enrolled in a program in which over 80 percent of students are of the other sex, that person is considered enrolled in a non-traditional program and is referred to as a non-traditional student.

Net Budget. © Program budgets in this report give expenditures for an instructional program which includes all salaries, fringe benefits, supplies and materials, purchased services, and other expenses connected with the program, but does not include general administration and general support services in that AVTI. Program revenues have been subtracted.
"Male" Budget. A "male" budget is calculated by apportioning the net budget for a program in the same ratio as there are male students. For example, a net budget of $\$ 100,000$ in a program where 75 percent of students are male would have a male budget of $\$ 75,000$.
"Female" Budget. A "female" budget is calculated by apportioning the budget for a program according to the percentage of female students. In the example above, the female budget would be $\$ 25,000$.

Cost per Headcount. The cost per headcount is calculated by dividing the net budget for a program or an AVTI by the headcount for that program or AVTI. The cost per headcount for females is calculated by dividing the female budget by the female headcount for that program or AVTI, and the same method is used for calculating the male cost per headcount.

Average Yearly Salary. This salary is the total contracted salary based on full-time equivalence, and therefore controls for the number of weeks worked and for part-time employment.

Average Years of Service. Years of service refers to total years as a licensed teacher or administrator, not simply as an employee of a particular institution.


[^0]:    * A "program," on these and the following tables, refers to a statewide aggregate. For example, Agricultural Production may be an integrated course at one or more AVTIs, but statewide total enrollments in all Agricultural Production courses are 97.6 percent male and therefore this is a "male" program at the state level.

