| AUTHOR | Schantz, Nancy P. |
| :---: | :---: |
| TJTLE | Fall Enrollment in Institutions of Higher Education, 1987. Survey Report. |
| INSTITUTION | National Center for Education Statistics (ED), Washington, DC. |
| REPORT NO | NCES-89-31.9 |
| PUB DATE | Nov 89 |
| NOTE | 51p.; Data Series: DR-IPEDS-87/88-1.2. Appended tables contain small type. |
| PUB TYPE | Statistical Data (ll0) |
| EDRS PRICE | MFO1/PCO3 Plus Postage. |
| DESCRIPTORS | *Educational Trends; *Enrollment Trends; Higher |
|  | Education; National Surveys; 5 ilic Schools; |
|  | Statistical Data; *Trend Analys..si Womens |
|  | Education |
| IDENTIFIERS | Integrated Postsecondary Education Data System |

## ABSTRACT

The report presents data on student enrollment at accredited colleges taken from the "Fall Enrollment" survey, part of the Integrated Postsecondary Education Data System (IPEDS). The first section reviews trends in higher education enrollment from 1970 through 1987. The second section presents data on higher education enrollment for the fall of 1987 by: control and level of institution; level of education; attendance status; and sex and age of student. Enrollment trends identified between 1970 and 1987 are as follows: most of the dramatic increase (about 45\%) in higher education enrollment occurred between 1970 and 1983; part-time enrollment increased about $70 \%$ from 1970 to 1987; and the enrollment of women increased 93\% since 1970. Highlights of the 1987 data include the following: higher education enrollment increased 2.1\% from 1986; most students in institutions of higher education were enrolled in public institutions; there was no increase in number of students enrolled in private institutions; over ralf of all students in higher education were 24 years of age or younger, though $27 \%$ of all students were 30 years old or older; and most younger students were enrolled full time and most older students were enrolled part time. Appendixes provide tables, technical information on the data collection procedures -related to this survey, and a listing of IPEDS state coordinators. (DB)

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## Survey Report <br> November 1989

# Fall Enrollment in Institutions of Higher Education, 1987 

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Postsecondary Education Statistics Division

[^1]Data Series:
DR-IPEDS-87/88-1.2

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November 1989

## Highlights

## Enrollment Trends in Institutions of Higher Education, 1970-87

- Most of the dramatic increase in higher education enrollment since the early 1970s occurred between 1970 and 1983 when enrollment increased from 8.6 million to 12.5 million, or about 45 percent. After dropping slightly in the mid-1980s, enrollment rose about 4 percent between 1985 and 1987.
o From 1970 to 1987, part-time enrollment in higher education increased approximately 2.8 million, or about 70 percent. Full-time enrollment increased at a slower pace, increasing 19 percent from 1970 to 1987.
o The enrollment of women has increased fairly dramatically and steadily over the years, increasing 93 percent since 1970. The enrollment of men peaked in 1975, after increasing 22 percent from $19 \%$ to 1975. However, since 1975, the enrollment of men hes been generally stable.


## Enrollment In Institutions of Higher Education, Fall 1987

- About 12.8 million students were enrolled in the Nation's more than 3,500 institutions of higher education in the fall of 1987: representing a 2.1 percent increase in higher education enrollment from 1986 .
o Approximately 10 million students, or over three-fourths of the students in institutions of higher education ( 2.7 percent more than in 1986), were enrolled in public institutions in 1987.
- About 2.8 million students were enrolled in private institutions of higher education in the fall of 1987, representing no change in total private school enrollment from the previous year.
o Over one -half of all students in higher education were 24 years old or younger. However, 3.4 million students, or 27 percent of all students in higher education were 30 years old or older.
o Younger student e were more likely to attend school full time, while older students were more likely to attend school part time. About 82 percent of the students 21 years old or younger, and 62 percent of the students 22 to 24 years old were enrolled full time in 1987. However, 76 percent of the students 30 years old or older and 60 percent of the students 25 to 29 years old were enrolled part time in the fall of 1987.
o Part-time undergraduate students were more likely to be older ( 30 years old or older) than full-time undergraduates. That 1s, while 44 percent of the part-time undergraduates were 30 years old or older; only 8 percent of the full-time undergraduates ware "older" students (30 years old or older).


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## Acknowledgments

The author would like to thank Charles Anderan, American Council of Education; Susan Gill, National Science Poundation; and Curtis Baker and George Wade, NCES for their review and commente on this report. Appreciation is also axtended to the following NCES staff for their support and technical asaistance: Mike Cohen, Pat Brown, Susan Broyles, William Freund and Sumer Whitener. Editorial and publication help was provided by Margery Martin of the Publications Services Branch of the Office of Information Services, OERI.

In acknowledging contributions to this report, it must be noted that without the support of the postsecondary community, and in particular, without the support and assistance of the IPEDS State coordinators, the "Fall Enrollment" survey would not be possible. (See listing of IPEDS State coordinators in appendix C.)

## Introductlon

This reporf presents findings from the "Fell Enfollment" survey which is part of the Integrated Postsecondary Education Data System (IPEDS) administered by the National Canter for education Statistics (NCES). IPEDS provides comprehensive and consistent data rapresenting colleges and univarsities, es woll ma all postsecondary institutions in the Undted scates and the Trust Tarritories.

While the "Fall Enrollment." survey collects data from all postsecondary institutions, this report prowide descriptive data on student enroliment in GEGIS ingtitutions only (i.e., institutions accredited at the college level by an agency recognized by the Secretary of Education). Enroliment data for non-HEGIS institutions are not show, because the response rates for these institutions did not sacisfy NCES standards. (See pages 14-15 and appendix B, for a further discussion of response rates for non-HEGIS instatutions.)

The duta in this report is presented in two sections. The first section reviews trends in higher education enrollment from 1970 through 1987. The second section presents data on higher education enrollment for the fall if 1987, by control and level of institution, level of education, attendance status, and sex and age of student. This is the first IPEDS report to provide enrollment data by age of atudent. ${ }^{1}$

$1_{\text {See }}$ technical appendix $B$ for an explanation of the data collection procese for 1987.

## Enrollmen: Trends In Insifiutions of filgher Eciucation, 1970-87

Since the amrly 1970s, anrollment in bigher education has increased dramaticaily. Most of this incrase occurred betweon 1970 and 1983, rith bigher education onsollment increasing neariy 4 iaillion, or 45 percer.t during this time. Aftar dropping slightiy in the mid 1980s, enrollnent rors about 4 percent batween 1985 and 1987 (figure 1 and appendix taile A .1 ).

Ckauge3 in student attendance status have been even more striking then changes in ovarall enrolimant. From 1970 to 1975, part-time ozroliment in colleges and waivarsities increased from 2.8 million te 4.3 million, ropresenting close to a 60 percent increase. By 198C, part-time enrollment in ingtitutions of higher education incrased anothes 2.5 percent. While the rate of incruase in part-time onroliment slowed during the mid-198cs, from 1980 to 1987 part-tim enrollment increased 10 percent.

While fill-time enrollment in colleges and universities increased during the 1970 , the rate of increase was less dramatic than the rate of increase in part-time ensoliment. From 197C to 1975, full-time ${ }^{\text {frimoliment in institutions }}$ of higher education increased 17 percent; by 1980, fuil-time enroliment had increased another 4 parcent.. During the early 1980s, full-time enrollment continued to increase, though at a slower rate than any ocher period sinse 1970. By the mid-1980s, the percent of full-time students bagan to drop giaghty. Between 198c and 1987, fulletime enrollment increased only 2 percent.

While the proportion of fuil-time students enrolled in colleges and universities hes alway been greater than the proportion of part-time students, it is interesting to note that since 1970 , the proportion of students enrolled full tire has stđadily decreased. In 1970, about 68 parcent of the atudents were anrclied full time; by 1980 , this proportion had dropped to 59 percent. In 1987, only 57 fercent of all students enrolled in institutions of higher aducation were fuil-time atudents.

Since 1970, there also have been interesting changes in the percentage of mon and women enrolied in ingtitutions of higher education. That is, while the number of both man and women enrolied in colleges and univeraities has grown over the years, the arollment of women has increased at a faster fate than the enrollment of men (figure 2 and appendix tebla A-1). From 1970 co 1975, the number of women enrolied in institucionc of higher education increased 42 percent. During that time, the enrollment of men increased tit about one-half that race ( 21.9 percent). By 1980, enrollment of women in colleges and universitiea had increased another 24 percent; however, enrollment of men had droppad about 4 percent during this time. Throughout the early 1980s, the anroliment of both man and woxien increased at similar rates; however by the mid-1980s, enrollment of men atarted to drop sifghtly, while anrollment of women ramained relativoly stable. Whils oncoliment of men has atabilized since 1984, enrollment of women has continued to increase at a slow, but steady pace (increasing about 7 percent between 1984 and 1987) (figure 2 and appendix tedle A-1).

Figure 1.--Enrollment in institutions of higher education, by total enrollment and attendance status, Fall 1970-1987


Source: U.S. Department of Education, National Center for Education Statistics,
'Fall Enrollment' survey, 1970-1987.

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Figure 2.--Enrolliment in institutions of higher education, by total enrollment and sex of student, Fall 1970-1987


Source: U.S. Department of Education, National Center for Efucation Statistics,
'Fall Enrollment' survey, 1970-1987.

The proportions of men and women anrolled in colleges and universities also has changed over time. In 1970, more men ( 58.8 percent) than women ( 41.2 percent) vere enrolied in colleges and universities; by 1980, this pattern had begin to reverse, with proportionaliy more women enrolied ( 51.4 percent) than men ( 48.6 percent). By 1987, the proportion of men in higher education had dropped further, to about 46 percent of all students enrolled.

## Enroliment In Institutions of Higher Education, Fall 1987

## Enrollment, by Control of Institution

Table 1 indicates the distribution of students enrolled in institutions of higher education, by control of institution and selected institutional and student characteristics. As shown, about 12.8 million students were enrolled in Institutions of higher education in the fall of 1987. This represents a 2.1 percent increase in higher education enrollment from the previous year (appendix tablu A-2). In 1987, approximately 10 million (or over three-fourths) of the students enrolied in institutions of higher education were enrolled in public institutions. Of the 2.8 mililion atudents enrolled in private schools, 2.6 miliion ( 93.2 percent) attended private nonprofit institutions (table 2). While enroilment in public institutions of higher education was up 2.7 percent from the fall of 1986, enroliment in private schools remained stable during this time (appendix table A-2).

Close to 8 million students were enrolled in 4 -year institutions of higher education in the fall of 1987. Over two-thirds of these students $(68.0$ percant) attended public institutions. Of the 4.8 million students enrolled in 2-year higher education institutions, only 5 percent attended private inetitutions in 1987 (table 1). ${ }^{2}$

While 81 percent of the 11 million undergraduate students and 65 percent of the 1.5 mililion graduste students attended public institutions, 59 percent of the approximately 270,000 Eirst-professional atudents attended private schoole in the fall of 1987 (table 1 and figure 3).

About 6.8 million women were enrolled in institutions of higher education in the fall of 1987; approximately 900,000 more than the total number of men
${ }^{2}$ mnrollment in institutions of higher education, by control of institution and State for the fall of 1986 and 1987 is displayed in appendix table A-3.
${ }^{3}$ In the fall of 1987, less than 30 percent (27.4) of the institutions offering first-profesional programs were public institutions. See Glossary for definition of "first-professional".

Table 1.--Distribution of students in institutions of higher education, by control of institution and selected institutional and student characteristics: 50 States and D.C., fall 1987
(In thousands)

| Selected institutional and student characteristics | Total |  | Public |  | Private |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Humber | Percent | Total |  | Monprof It |  | For-profit |  |
|  |  |  |  |  | Number | Percent | Number | Percent | Number | Percent |
| All students | 12,768 | 100.0 | 9,975 | 78.1 | 4,793 | 21.9 | 2,602 | 20.4 | 191 | 1.5 |
| Level of institution |  |  |  |  |  |  |  |  |  |  |
| 4-year | 7.992 | 100.0 | 5,434 | 68.0 | 2,558 | 32.0 | 2,512 | 31.4 | 46 | 0.6 |
| 2-year | 4.776 | 100.0 | 4,541 | 95.1 | 235 | 4.9 | 90 | 1.9 | 145 | 3.0 |
| Level of student |  |  |  |  |  |  |  |  |  |  |
| Undergraduate | 11,048 | 100.0 | 8,920 | 80.7 | 2,128 | 19.3 | 1,940 | 17.6 | 188 | 1.7 |
| First-profoss ional | 268 | 100.0 | 110 | 41.1 | 158 | 58.9 | 157 | 58.4 | 1 | 0.5 |
| Graduate | 1,452 | 100.0 | 944 | 65.0 | 508 | 35.0 | 505 | 34.8 | 2 | 0.1 |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Men | 5,932 | 100.0 | 4.574 | 37.1 | 1,359 | 22.9 | 1,258 | 21.2 | 100 | 1.7 |
| Homen | 6,836 | 100.0 | 6,401 | 79.0 | 1,435 | 21.0 | 1,344 | 19.7 | 91 | 1.3 |

Attendance Status

| Full-time | 7,232 | 100.0 | 5,267 | 72.8 | 1,964 | 27.2 | 1,815 | 25.1 | 149 | 2.1 |
| :--- | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Fart-tine | 5,537 | 100.0 | 4,708 | 85.0 | 829 | 15.0 | 787 | 14.2 | 42 | 0.8 |

Age

| 21 or younger | 5,296 | 100.0 | 1,029 | 76.1 | 1,267 | 23.9 | 1,189 | 22.5 | 78 | 1.5 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $22-24$ | 2,026 | 100.0 | 1,609 | 79.1 | 417 | 20.6 | 383 | 18.9 | 34 | 1.7 |
| $25-29$ | 1,840 | 100.0 | 1,440 | 78.2 | 400 | 21.7 | 368 | 20.0 | 33 | 1.8 |
| 30 or older | 3,392 | 100.0 | 2,151 | 61.1 | 641 | 18.9 | 600 | 17.7 | 41 | 1.2 |
| Unknown | 215 | 100.0 | 147 | 68.3 | 68 | 31.6 | 61 | 28.5 | 6 | 2.6 |

MOTE: Totals are calculated from unrounded mumbers. Detalls may not add to totals due to. rounding.
SOURCE: U.S. Departmant of Education, Mational Center for Education Statistics, "Fall Enrollment" survey, 1987.

Figure 3.--Enrollment in institutions of higher education, by level of study and control of institution, Fall 1987


Source: U.S. Department of Education, National Contor for Education Statlatics, 'Fall Enfollment' aurvay, 1970-1987.
enrolled in 1987. While women outnumbered men in both public and private institutions, they attended public and private institutions in similar proportions (table 1).

Approximately 7.2 million students ware enrolled full time in the fall of 1987. However, about 5.5 million students, or 43 percent of all students enrolled in institutions of higher education were enrolled part time in 1987. Pull-time and part-time student enrollment rates varied by control of institution. That is, part-time students ware more likely than full-time students to attend public institutions ( 85.0 percent and 72.8 percent, respectively); and conversely, full-time students were more likely than part-time etudents to attend private institutions ( 27.2 percent and 25.0 percent, respectively).

In the fall of 1987, about 7.3 million students, or over one -half (57.3 percent) of all students in institutions of higher education were 24 years old or younger. However, 3.4 million students, or 27 percent of all students in institutions of higher education were older students ( 30 years old or older). At all age levels, students attended public and private institutions in similar proportions.

## Enrollment, by Attendance Status

As discuses previously, while most students in institutions of higher education attended school full time in the fall of 1987, a high proportion of students attended school part-time. However, as shown in table 2, this attendance pattern varies somewhat by selected institutional and student characteristics. For instance, while 69 percent of the students in 4 -year institutions attended school full time in 1987, only 36 percent of the students in 2-year institutions attended school full: time during this period. In addition, although students in public and private institutions ware more likely to attend school full time, proportionally more students in private institutions were full-tims students than students in public institutions (70.3 percent and 52.8 percent, respeistively).

While both men and women ware more likely to attend school full time than part time, higher proportions of women were part-time students. That is, while 39 percent of the men attended school part time, close to one-half $(47.0$ percent) of the women attended school part time in 1987.

Younger students were more likely to attend school full time, while older student were more likely to attend school part time. For instance, 82 percent of the students 21 years old or younger, and 62 percent of the students $22-24$ year: old were enrolled full time in 1987. However, 76 percent of the students 30 years old or older and 60 percent of the students 25 to 29 years old were caroled part time in the fall of 1987.

Table 2.--0istribution of students in institutions of higher education, by attendance status and selected institutional and student characteristics: 50 States and D.C., fall 1987
(In thousands)
Selected student and
institutional characteristics
All students

Type of institution

| 4-year | 7,992 | 100.0 | 5,523 | 69.1 | 2,469 | 30.9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 2-year | 4,776 | 100.0 | 1,709 | 35.8 | 3,068 | 64.2 |

Control of institution

| Public | 9,975 | 100.0 | 5,267 | 52.8 | 4,708 | 47.2 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Private | 2,793 | 100.0 | 1,964 | 70.3 | 829 | 29.7 |
| Monprofit | 2,602 | 100.0 | 1,815 | 69.8 | 787 | 30.2 |
| For-profit | 191 | 100.0 | 149 | 78.0 | 42 | 22.0 |

Level of student

| Undergraduate | 11.048 | 100.0 | 6,463 | 58.5 | 4,585 | 41.5 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| First-professiona 1 | 268 | 100.0 | 242 | 90.1 | 27 | 9.9 |
| Graduate | 1,452 | 100.0 | 527 | 36.3 | 925 | 63.7 |

Sex of student

| Man | 5,932 | 100.0 | 3,611 | 60.9 | 2,321 | 39.1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Women | 6,836 | 100.0 | 3,621 | 53.0 | 3,216 | 47.0 |

Age

| 21 or younger | 5,296 | 100.0 | 4,364 | 82.4 | 931 | 17.6 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| $22-24$ | 2,026 | 100.0 | 1,252 | 61.8 | 774 | 38.2 |
| $25-29$ | 1,840 | 100.0 | 727 | 39.5 | 1,113 | 60.5 |
| 30 or older | 3,392 | 100.0 | 807 | 23.8 | 2,585 | 76.2 |
| Unknown | 215 | 100.0 | 82 | 38.1 | 134 | 62.3 |

MOTE: Totals are calculated from unrounded numbers. Details may not add to totals due to rounding.

SOURCE: U.S. Department of Education, Mational Center for Education Statistics,
"Fall Emrollment" survey, 1987.

## Enrollment, by Level of Education, Sex, and Age

College administrators and public policymakers had been concerned that the 1980 would bring a period of decilning enrollments in institutions of higher education. Population projections for the 1980s indicated decreases in the population of 18- to $24-$ year-olds. Many analysts saw this as resulting in future declines in higher education enrollment. However, while the population of 18- to 24-year-olds declined by 8.1 percent between 1981 and 1986, their college participation rate ${ }^{4}$ rose slightiy (almost 2 percent) during that time, resulting in stable enrollment figures for this age cohort overall. 5 Also, earlier predictions of enrollment trends did not take into account the fact that greater numbers of older students--particularly older women--would be attending institutions of higher education in the 1980 s .

Table 3 shows the age distribution of students in institutions of higher education, by level of education, sex, and attendance status. ${ }^{6}$ As indicated previously, about 7.3 million students, or over one-half ( 57.4 percent) of all students in institutions of higher education were 24 years old or younger in the fall of 1987. In contrast, about 3.4 million students, or 27 percent were older students ( 30 years or older).

Of the students in institutions of higher education, women tended to be older than men and part-time students tended to be older than full-time students (table 3 and figure 4). That is, while 30 percent of the women were 30 years old or older, proportionally fewer men ( 22 percent) were older students. Furthermore, while close to one-half ( 46.7 percent) of the part-time students were 30 years old or older, proportionally fewer full-time students ( 11.2 percent) were 30 years old or older.

Of the undergraduate students enrolled in institutions of higher education, most ( 63.4 percent) were 24 years old or younger (figure 5). However, 23 percent of all undergraduates were 30 years old or older. Undergraduate women tended to be older than undergraduate men. About 27 percent of the undergraduate women were 30 years old or older; only 19 percent of the undergraduate men were 30 years old or older (table 3 ).

4"College participation rate" of 18 - to 24 -year-olds refers to the proportion of the population 18 to 24 years old that attends college.

Sy.s Department of Commerce, Bureau of the Census, Current Population Reporte, "School Enrollment--Social and Economic Characteristics of Students: October 1986," Series P-20, No.429, and "United States Population Estimates by Age, Sex, and Race: 1980-1987," Series P-25, No. 1022.
${ }^{6}$ See appendix tal le A-4 for numbers of students enrolled, by level of education, sex, attendance status, and age.

Table 3.--Enrol iment in institutions of higher education, by level of education, sex, attendance status, and age: 50 States and D.C., fall 1987 1/

| Attendance status and Age 2/ | All students |  |  | Level of education and sex of student |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | undergradute |  |  | First-professional |  |  | Graduate |  |  |
|  | Total | 1 men | Women | Tota | Hen | Women | Total | Pen | Homan | rotal | Hen | Women |
| Total | 12.768 | 5,932 | 6,836 | 11,048 | 5,069 | $\begin{aligned} & \text { All students } \\ & \text { (in thousands) } \\ & \text { 5,979 } 268 \end{aligned}$ |  | 170 | 98 | 1.452 | 693 | 759 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Age Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 21 or younger | 41.5 | 42.3 | 40.8 | 47.8 | 49.3 | 46.4 | 2.8 | 2.5 | 3.3 | 0.7 | 0.7 | 0.7 |
| 22-24 | 15.9 | 18.2 15.6 | 13.9 | 15.6 | 18.1 | 13.5 | 37.2 | 37.1 | 37.1 | 13.9 | 14.4 | 13.7 |
| 30 or older | 14.4 26.6 | 15.6 22.3 | 13.4 30.3 | 12.0 23.1 | 12.6 18.6 | 11.5 27.0 | 35.6 22.9 | 37.4 | 32.2 | 28.7 | 32.2 | 25.5 |
| Unknown | 1.7 | 1.6 | 30.7 | ${ }^{23.5}$ | 18.6 1.4 | 27.0 | 22.9 1.5 | 21.3 1.6 | 25.6 1.8 | 53.3 3.3 | 49.6 3.0 | 56.7 3.6 |
| Total | 7,232 | 3.611 | 3.621 | 6,463 | 3,164 | $\begin{aligned} & \text { Full-1- } \\ & \text { (in thou } \\ & 3,293 \end{aligned}$ | ds) 242 | 154 | 88 | 527 | 294 | 233 |
|  |  |  |  |  |  | Percent |  |  |  |  |  |  |
| Age Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 21 or younger | 60.3 | 57.8 | 62.9 | 67.3 | 65.7 | 68.9 | 3.1 | 2.7 | 3.7 | 1.3 | 1.2 | 1.4 |
| $\begin{aligned} & 22-24 \\ & 25-29 \end{aligned}$ | 17.3 | 19.8 | 14.8 | 16.0 | 18.7 | 13.5 | 40.0 | 40.0 | 40.2 | 22.9 | 22.0 | 24.4 |
| 30 or older | 11.2 | 11.4 9.8 | 8.7 12.5 | 7.2 | 7.8 | 6.5 | 35.7 | 37.6 | 32.4 | 33.9 | 36.8 | 30.3 |
| Unknown | 1.1 | 1.1 | 12.5 1.1 | 8.5 1.0 | 6.8 1.0 | 10.1 1.0 | 19.5 1.7 | 18.1 1.7 | 22.0 1.7 | 39.9 2.1 | 38.0 2.2 | 42.3 1.9 |
| Total | 5,537 | 2,321 | 3.216 | 4,585 | 1,905 | $\begin{aligned} & \text { Part-t ime } \\ & (\text { in thousands) } \\ & 2,680 \end{aligned}$ |  | 16 | 10 | 925 | 400 | 525 |
| Percent |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 or younger | 16.8 | 18.3 | 15.8 | 20.2 | 22.2 | 18.8 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 |  |
| 22-24 | 14.0 20.1 | 15.6 22.2 | 12.8 18.6 | 15.1 | 17.1 | 13.6 | 10.2 | 10.5 | 10.0 | 8.7 | 8.9 | 8.6 |
| 30 or older | 46.7 | 22.2 41.6 | 18.6 50.3 | 18.9 43.7 | 20.6 38.0 | 17.6 | 33.3 53.2 | 35.8 | 30.4 | 25.7 | 28.9 | 23.3 |
| Unknown | 2.4 | 2.5 | 5.4 | 2.1 | 38.1 2.1 | 17.8 2.1 | 53.2 1.5 | 51.9 1.3 | 57.1 1.8 | 61.0 4.1 | 58.2 3.6 | 63.1 |

1/ See appendix table A-4 for mumber of students enrolled by level of education, sex, attendance status, and age.
2/ Approximately 10 percent of the age data has been imputed.
NOTE: Totals are calculated from unrounded numbers. Details may not add to totals due to rounding.
SOURCE: U.S. Department of Education, Nat Ional Center for Education Statistics, "Fall Enrollment" survey, 1987.

Figure 4.--Enrollment in institutions of higher education, by attendance status and age, Fall 1987


Full-time

Source: L.S. Department of Education, Natlonal Center for Education Statistics, 'Fall Enrollment' survey, 1970-1987.


Figure 5.--Enrollment in institutions of higher education, by level of study and age, Fall 1987


[^2]Part-time undergraduate atudente were more likely to be older ( 30 years old or older) than full-tim undergraduates. That is, while 44 percent of the part-time undergraduates were 30 years old or older; only 8 percent of the full-time students were older students. This attendance pattern was particularly true for part-time undergraduate women. While 49 percent of the part-time undergraduste women were 30 years old or older, only 10 percent of the full-time undergraduate women were older students.

While most undergraduates were 24 years old or younger, about 73 percent of the first-professinal students were becween 22 and 29 yesrs old. While the age distributions of male and female undergraduates varied somewhat, the age distributions of male and female first-professional students were similar; most were between the ages 22 and 29. However, like part-time undergraduate students, part-time first-professional students tended to be older ( 30 years old or older) than full-time first-professional students ( 53.2 percent and 19.5 percent, respectively).

Most graduate students (53 percent) were 30 years old or older (figure 5). This was true for both males and females, though prcportionally more famale than male graduate students were older students ( 56.7 percent and 49.6 percent, respectively) (table 3). Similar to undergraduates and first-professional students, part-time graduate students were older than full-time graduate students. For instance, 61 percent of the part-time graduate students were 30 years old or older; 40 percent of the full-time graduate students were 30 years old or older.?

## Enroilment In Non-HEGIS Institutions

While this report focuses only on erroliment in the traditional higher education institutions (1.e., uEGIS inatitutions), IPEDS also collects data from non-HEGIS institutions (1.e., institutions not accredited at the college level by an agancy recognized by the Secrotary of Educatior.). Enrollment data for these institutions were not presented in this report, because the response rates for non-HEGIS institutions were below NCES standards. Furthermore, data were not available to evaluate the representativeness of the responding non-HEGIS institutions. (Response rates for non-HEGIS institutions are shown in appendix tablee B-1 and B-3.)


#### Abstract

7While the Bureau of the Census collects onrollment data, by age of student, the Census's estimates may differ somewhat from the estimates presented in this report. This is due to different approaches to data collection. For the purposes of this report, the primary distinction in data collection methodologies is that the IPEDS "Fall Enrollment" survey surveys inetitutions to determine an estimate of students enrolled in the fall of a diven rear, while the census surveys households to determine an estimate of college encollment at any point during the current chool renc.


NCES plane to conduct a eparate analysis and evaluation of the data provided by non-HEGIS institutions. The results of this analysis, including any necessary cavaats, will be published in a future IPEDS technical report. It is hoped that this report will help readers obtain a clear understanding of the enroilment characteriatics and the resources of this important sector of postsecondary education.

Appendix A: Tables

Table A-1.--Total enrollment in institutions of higher education, by attendance status and sex of student: Fall 1970 to fall 1987

| Year | Totalenroliment | Attendance status |  | Sex of student |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Full-tim | Part-tim | Man | Noman |
| 1596... | 8,500, 807 | 5,315,290 | 2,765,597 | 5,043,642 | 3.537 .245 |
| $1971 . .$. | 8,948,644 | 6,077,232 | 2,871,412 | 5,207,004 | 3,741,640 |
| 1972 ... | 9,214,860 | 6,072,369 | 3,142,471 | 5,238,757 | 3,976.103 |
| 1973 ... | 9,602,123 | 6,189,493 | 3,412,630 | 5,371.052 | 4,231.071 |
| 1974 .... | 10,223,729 | 6,370,273 | 3,853,458 | 5,622,429 | 4,601,300 |
| 1975 .... | 11,184,859 | 6,841,334 | 4,343,525 | 6.148,997 | 5,035,862 |
| 1976 ... | 11, 012,13. | 6,717,058 | 4,295,079 | 5. 110.828 | 5,201,309 |
| 1977 .... | 11,285, 787 | 6,792,925 | 4,492,862 | 5,789,016 | 5,496,771 |
| 1978 .... | 11,260,092 | 6,667,657 | 4,592,435 | 5,640,998 | 5,619,094 |
| 1979 ... | 11,569,899 | 6,794,039 | 4,775,860 | 5,682,877 | 5,887,022 |
| $1900 . .$. | 12,096,895 | 7,097,958 | 4,998,937 | 5,874,374 | 6,222,521 |
| 1981 | 12,371.672 | 7.181.250 | 5,190,422 | 5,975,056 | 6,396,616 |
| $1982 . .$. | 12,425,780 | 7.220,618 | 5,205,162 | 6.031 .384 | 6, 394, 396 |
| 1983 .... | 12.404,601 | 7.261,050 | 5,203,611 | 0,023.725 | 6,440,936 |
| 1984 .... | 12,241,940 | 7,090,388 | 5,143,552 | 5,863,574 | 6,378,366 |
| 1985.... | 12,247,055 | 7,075,221 | 5.171.834 | 5,818,450 |  |
| 1986* ... | 12.504,501 | 7.120,076 | 5,384,425 | 5,881,976 | $6.619 .525$ |
| 1987 .... | 12,768,307 | 7.231.506 | 5,536,801 | 5,932.131 | 6,836,176 |

SOURCE: U.S. Department of Educat Son, Mational Center for Education Statistics, "Fall Enroilimant in Colleges and Universities" surveys.

Table A-2..aEncollmant in institutions c? highor oducation, by control of institution, level of oducation. and sex: 50 States and D.C., fall $1984-1987$

| Control of institution, level of education. and sex | fall |  |  |  | Parcent change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | 1985 | 1887 | 1984-85 | 1985-86 | 1986-87 |
| Total.................. | 12,241,940 | 12,247,055 | 12,504,501 | 12,768,307 | 0.0 | 2.1 | 2.1 |
| Undorgraduate. . . . . . . . . . . Men............... . . . . womin. . . . . . . . . . . . . . | $\begin{array}{r} 10,610,071 \\ 5,00,813 \\ 5,611,250 \end{array}$ | $\begin{aligned} & 10,596.674 \\ & 4.962 .000 \\ & 5,634.594 \end{aligned}$ | $10,798,800$ $5,017.976$ $5,780,924$ | $\begin{array}{r} 11,047,902 \\ 5,068,684 \\ 5,979,218 \end{array}$ | -0.2 0.9 0.4 | 1.9 1.1 2.6 | 2.3 1.0 3.4 |
| First-profess ional. . . ...... Man......................... M | $\begin{aligned} & 278,59 \% \\ & 19.049 \\ & 93.649 \end{aligned}$ | 274,200 179,790 94,400 | 270.413 173.862 96.551 | 268,467 170,133 98,334 | -1.6 -2.8 0.8 | -1.4 -3.3 2.3 | -0.7 -2.1 1.8 |
| Gradurte...................... Man. ....................... Homen ....................... | $\begin{array}{r} 1,345,271 \\ 671,012 \\ 673,459 \end{array}$ | $\begin{array}{r} 1,376,181 \\ 679,570 \\ 699,603 \end{array}$ | $\begin{array}{r} 1,435,288 \\ 695,238 \\ 742,050 \end{array}$ | $\begin{array}{r} 1,451,938 \\ 693,314 \\ 758,624 \end{array}$ | 2.3 0.7 3.9 | 4.3 2.5 6.1 | 1.2 0.0 2.2 |
| Public......................... | 9,459,592 | 9,479,273 | 9,714.709 | 9,975,064 | 0.2 | 2.5 | 2.7 |
| Undergraduate................ . M目. . . . . . . . . . . . . . . . ...... Homen. $\qquad$ | $\begin{aligned} & 8,475,713 \\ & 3,901,063 \\ & 4,494,650 \end{aligned}$ | $8,477,125$ $3,952,546$ $4,524,577$ | $8,661,416$ $4,002,762$ $4,650,634$ | $8,920,364$ $4,076,623$ $4,043,741$ | 0.0 -0.9 0.7 | 2.2 1.3 3.0 | 3.0 1.8 4.0 |
| First-profession l......... Mon.......................... MOMAR. $\qquad$ | $\begin{array}{r} 113,900 \\ 7,722 \\ 40,106 \end{array}$ | 111.009 71,373 40,435 | $\begin{array}{r} 112.026 \\ 70.331 \\ 41.695 \end{array}$ | 110.291 6.155 <br> 42,136 | -1.8 -3.2 0.6 | 0.2 -1.5 3.1 | -1.5 -3.1 1.1 |
| Craduate.................... Men................... Womin.................. | $\begin{aligned} & 869,971 \\ & 411,241 \\ & 450,730 \end{aligned}$ | 890,340 413,567 476,773 | 941.267 432,035 500,432 | 944.409 428,846 515,563 | 2.3 0.6 3.9 | 5.7 4.7 6.6 | 0.3 -0.9 1.4 |
| Private....................... | 2,782,348 | 2,767,782 | 2,789,792 | 2,793,243 | -0.5 | 0.8 | 0.1 |
|  | $\begin{aligned} & 2,142,358 \\ & 1,025,750 \\ & 1,116,600 \end{aligned}$ | $\begin{aligned} & 2,119,549 \\ & 1,009,532 \\ & 1,110,017 \end{aligned}$ | $2,133,304$ $1,015,094$ $1,122,290$ | 2,127,538 1, 192.061 | -1.1 -1.6 -0.6 | 0.8 0.6 1.1 | -0.5 -2.3 1.2 |
|  | $\begin{array}{r} 164,690 \\ 111,227 \\ 53,463 \end{array}$ | 162,392 10.919 53,973 | 159,387 103,531 54,856 | 158,176 101,976 56,198 | -1.4 -2.5 1.0 | -2.5 -4.5 1.6 | -0.1 -1.5 2.4 |
| Graduste................... Mnn.................. Nomm................. | $\begin{aligned} & 475,300 \\ & 260,571 \\ & 214,729 \end{aligned}$ | 485,941 263,011 222,830 | $\begin{aligned} & 494,021 \\ & 260,403 \\ & 233,618 \end{aligned}$ | 507.529 264.468 243,061 | 2.2 0.9 3.8 | 1.7 -1.0 4.8 | 2.7 1.6 4.0 |

## 

SOURCE: U.S. Oppartmant of Education, Mational Conter for Education Statistics. "Fall Enroilment survey, 1987.

Table A-3.o-Enrollment in institutions of highar education, by control of Institution and State: fall 1986 to fall 1987

| State | Potal |  |  | Public |  |  | Private |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Fall } \\ 19661 / \end{gathered}$ | $\mathrm{Fall}_{1987}$ |  | ${ }_{1980} \mathrm{Fall}$ | $\begin{gathered} \text { fall } \\ 1989 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { fall } \\ 19861 / \end{gathered}$ | $\begin{aligned} & \text { Fall } \\ & 198721 \end{aligned}$ |  |
| Whter State | 12.500.501 | 12,76,30\% | 2.1 | 9,714,105 | 9,915,007 | 2.7 | 2,109,792 | 2,793,245 | 0.1 |
| Alabame ............ | 210.00 | 263.85 | 3.5 | 195.045 | 202,585 | J. 9 | 21,011 | 21.070 | 0.3 |
| Alaska ................. | 27, 492 | 26.937 | -2.0 | 26, 369 | 25,991 | -1.4 | 1,123 | . 1.946 | -15.8 |
| Arizoni .............. | 226.597 | 237.233 | 4.7 | 213,590 | 228.582 | 7.0 | 13,027 | 8,681 | - 33.4 |
| Mrtansas Cilifernia . . . . . . . . . | 79,102 $1,729,476$ | 79,273 $1,760,33$ | 0.1 3.4 | -60,760 | 1,501, 613 | -0.7 3.8 | 10.422 205,624 | 10,960 | 5.2 0.9 |
| Colorato. | 101,907 | 12.035 | 3.4 | 162,035 | 166,046 | 2.5 | 19,872 | 21,989 | 10.7 |
| commetticui | 150,040 | $163.2 \%$ | 2.6 | 91,590 | 103,417 | 3.0 | 59.450 | 59,821 | 10.7 |
|  | 33, 0 | 30\% | 8.1 | 20.09 | 29,64 | 2.6 | 5,001 | 9,003 | 40.0 |
| District of columbia | 17.66 | 17.93 | -0.1 | 11.000 | 10,45 | -6.0 | 65, 652 | 66,715 | 1.3 |
| florids . 3 /.......... | 403,901 | 409.98 | 1.2 | 305,430 | 405,292 | 5.2 | \%,526 | 81,672 | -14.1 |
| compla ..4/......... | 195, 123 | 224,084 | 14.8 | 147,269 | 174,355 | 18.4 | 47,854 | 49,711 | 3.9 |
| Henali ............... | 51,6\% | 52,291 | 1.2 | 42.593 | 42,746 | 0.4 | 9.103 | 9,545 | 4.9 |
| tdeto ................ | 45,260 | 45,57) | 0.7 | 35, 39 | 34,791 | -2.1 | 9,720 | 10,776 | 10.8 |
| Illinois ............ | 692000 | 60.9 | -0.7 | 530.55 | 521.117 | -1.0 | 161.527 | 185, 037 | 2.7 |
| Indiana............... | 250, 185 | 256,260 | 2.4 | 194,139 | 201,457 | 3.0 | 56,046 | 54,007 | -2.2 |
| leme ................ | 155,309 | 150,230 | 1.8 | 110.439 | 112,007 | 1.4 | 44.930 | 46.223 | 2.9 |
| Ransis . | 143.311 | 14.97 | 4.0 | 129,947 | 135,91 | 4.6 | 13,304 | 13.056 | -2.3 |
| Rentueky . . . . . . . . . . | 14.302 | 153, 351 | 6.1 | 115.059 | 122.019 | 6.0 | 29,504 | 31, 332 | 6.2 |
| Loulstana ............ | 171,344 | 173.229 | 1.1 | 146,297 | 140.482 | 1.5 | 25.047 | 24,737 12,395 | $-1.2$ |
|  | 46.230 | 47,554 | 2.9 | 34,460 | 35,159 | 2.0 | 11.770 | 12,395 | 5.3 |
| Marylant ............. | 238,800 | 244,750 | 2.5 | 204.021 | 209,099 | 2.1 | 34,059 | 35,651 | 4.7 |
| Massachusetts ....... | 117.588 | 423,916 | 1.5 | 17,615 | 187,091 | 4.7 | 239,947 | 236,825 | -0.9 |
| Michigan . . . . . . . . . . | 59.422 | 535,409 | 2.8 | 445.767 | 452.313 | 3.0 | 74,681 | 76,173 | 2.0 |
| Minmeleta . . . . . . . . . | 226.50 | 237.212 | 4.7 | 170,790 | 16.09\% | 4.1 | 47,780 | 51,116 | 7.0 |
| Nississippl ..........0 | 101.104 | 105.510 | 4.4 | 0.925 | 93,204 | 3.7 | 11.179 | 12,226 | 9.4 |
| Hissour 1.............. | 246.185 | 251.73 | 2.3 | 168,043 | 171,246 | 1.4 | 17,302 | 00,532 | 4.2 |
| mantan. | 35.23 | 3, 02 | 1.8 | 31,192 | 31,050 | 2.1 | 4,046 | 4,024 | -0.5 |
| Mmeraske | 100.401 | 10.0 | 0.4 | 4,268 | 9,901 | 0.8 | 16,139 | 15,927 | -1.3 |
| mvada | 4,7\% | 4.033 8.163 | 2.7 4.2 | 46,490 | 47.791 | 2.0 | 25,153 206 | 25,264 | -11.1 |
|  |  |  |  |  |  |  |  |  |  |
| Mn Jomay . ......... | 295, 363 | 29.433 | 0.5 | 235.793 | 235,400 | -0.2 | 59,560 | 59.025 | -0.9 |
| man yort .a........... | 800.27 | 97.74 | -0.5 | 570,644 | 51,290 | 3.5 | 43, 1.605 | -1,776 | -2.2 |
| Horth Caroiina ...... | 122,979 | \$21,251 | -0.5 | 262,630 | 250, 930 | -1.4 | 60,301 | 62, 321 | -3.3 |
| Morth Oekota ... | 37,309 | 37,032 | -0.7 | 34,090 | 34,340 | -1.6 | 2,411 | 2,704 | 12.2 |
| Onto ................. | 521.318 | 518,979 | -0.4 | 305,614 | 392,346 | 1.7 | 135,704 | 126,633 | 6.7 |
| Onlanomi . . . . . . . . . | 170,940 | 172,730 | 1.1 | 149,043 | 140,906 | -0.1 | 21,797 | 23.024 | 9.3 |
| Orapen .......... | 14.801 | 152,657 | 5.4 | 125,079 | 133.450 | 6.0 | 10,922 | 19,199 | 1.5 |
| Fenmylvania ......... | 545,94 | 594, 370 | 1.5 | 304.190 | 311,210 | 2.3 | 241,734 | 243.160 | 0.6 |
| anode is land ......... | 69,572 | 11,700 | 3.1 | 35,511 | 36,317. | 2.3 | 34,061 | 35,391 | 3.9 |
| South Carolina , ..... | 13.115 | 249.91 | 5.0 | 100.192 | 113.352 | 4.8 | 25,924 | 27,409 | 6.0 |
| South Dethota ......... | 19.95 | 3, 75 | 2.7 | 24.036 | 24,147 | 0.5 | 6.699 | 7,600 | 10.3 |
| fommessex . . . . . . . . . ${ }^{\text {a }}$ | 197.0 | 20.00 | 2.5 | 149.443 | 154.109 | 3.1 | 47,626 | 47,902 | 0.6 |
| Trass ................. | 775.019 | 40.29 | 3.4 | 685.52 | 709,710 | 3.5 | 90,477 | 92,516 | 2.3 |
| Uthh ..................0. | 10.213 | 106,752 | 0.3 | 13.\%7 | 74,453 | 1.9 | \$3,146 | 32,339 | -2.4 |
| Yermat; . . . . . . . . . . . | 39,400 | 33.242 | 3.4 | 18.734 | 19,360 | 3.3 | 13,726 | 13,892 | 1.1 |
| Virginia .o........... | 3.318 | 319.06 | 3.5 | 269.697 | 275,593 | 3.7 | 42,631 | 43.463 | 1.9 |
| Manimpten | 242.450 | 245.012 | 1.4 | 21.338 | 214,207 | 0.9 | 30,112 | 31,665 | 5.2 |
| Wht virpinit. . . . . . . | 20,701 | 27,255 | 0.6 | 67,075 | 240.959 | 1.3 <br> 1.8 | 9,703 3,705 | 9,297 41,164 | 4.2 6.4 |
|  | 24,397 | 25,042 | 7.0 | 23, 735 | 25,441 | 7.2 | ${ }^{0} 622$ | 41.621 | 5i) |

2/rreiliminary date.
3/Geceuse of thentation technioums, data are not comsistent with fioures for other vears.
a/pare of the diny increace is due to the incluston of additions piolic 2-yoar institutions in the survey.
s/fercemtege not shemin beause of intreduction of a manditution in lato.
sonce: U.S. ompartment of Education, Mational Contor for Education Statistics, "fall Empoliment" survay, 1986 and 1987.

Table A-4. - - Mumber of students enrolled In institutions of higher education, by level of education, sex, attendance status, and age: 50 States and (In thousands)

| At tendance status and hge" | All students |  |  | Level of curation and sex of student |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Undergracuate |  |  | First-proressional |  |  | Graduate |  |  |
|  | Joki | nin | Womin | Tota | 7 m | Womeri | Total | Hen | Women | Total | iren | W0ime |
|  | All students |  |  |  |  |  |  |  |  |  |  |  |
| Total | 12,768 | 5,932 | 6.836 | 11,048 | 5,069 | 5,979 | 268 | 170 | 98 | 1,452 | 693 | 759 |
| Age ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 or younger | 5.296 | 2.510 | 2,786 | 5,278 | 2,501 | 2,777 | 8 | 4 | 3 | 11 | 5 | 6 |
| 22-24 | 2.025 | 1.078 | 2.948 | 1.725 | 2. 915 | 8.810 | $100^{\circ}$ | 63 | 36 | 202 | 100 | 101 |
| $25-29$ 30 or older | 1.840 3,392 | 1.927 1.321 | 913 2.070 | 1,328 $\mathbf{1}, 526$ | 640 941 | 698 1.615 | 95 61 | 63 64 36 | 36 32 | 202 717 | 100 223 | 101 193 |
| 30 or older Unknown | 1.392 215 | 1.321 96 | 2.070 119 | 2,556 162 | 941 73 | 1.615 90 | 61 | 36 3 | 25 2 | 774 48 | 344 21 | 430 27 |
|  | Full-t ime |  |  |  |  |  |  |  |  |  |  |  |
| Total | 1.232 | 3.611 | 3.621 | 6,463 | 3.164 | 3.299 | 242 | 154 | 88 | 527 | 294 | 233 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 or younger | 4.364 | 2,086 | 2.278 | 4.350 | 2.078 | 2,272 | 7 | 1 | 3 | 7 | 1 | 3 |
| $\begin{aligned} & \overline{22}-24 \\ & 25-29 \end{aligned}$ | 1.252 | 716 712 | 236 315 | 1.034 | . 590 | 2.244 | 97 | 61 | 35 | 121 | 65 | 56 |
| $\begin{aligned} & 25-29 \\ & 30 \text { or older } \end{aligned}$ | 727 807 | 412 355 | 315 452 | 462 550 | 246 216 | 216 334 | 86 | 58 | 29 | 179 | 108 | 71 |
| 30 or older Unknown | 888 | 355 42 | 452 | 550 66 | 216 33 | 334 34 | 47 | 28 3 | 19 2 | 10 11 | 111 | 98 |
|  |  |  |  |  |  | Part-t |  |  |  |  |  |  |
| Total | 5,537 | 2,321 | 3.216 | 4.585 | 1.905 | 2,680 | 27 | 16 | 10 | 925 | 400 | 525 |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 $22-24$ | 931 | 424 | 507 | 927 690 | 422 | 505 | 0 | 0 | 0 | 9 | 2 | 2 |
| $\begin{aligned} & 22-24 \\ & 25-29 \end{aligned}$ | 774 1.113 | 362 515 | 412 598 | 690 865 | 325 393 | 365 472 | 3 9 | 2 | $\frac{1}{3}$ | 81 238 | 35 | 45 123 |
| 250 30 | 1.113 2.585 | 56 966 | 598 1.619 | 8.05 2.006 | 393 724 | 472 1,281 | 14 | 6 | 3 | 238 | 116 233 | 123 332 |
| Unknown | 2.505 134 | 90 | 1.619 80 | 2,006 | 724 40 | 1,281 | 14 | 0 | 6 | 564 | 133 14 | 332 |

* Approximately 10 percent of the age data has been inputed.

MOIE: Totals are calculated from unrounded numbers. Numbers may not add to totals due to rounding.
SOURCE: U.S. Department of Education, Mational Center for Education Statistics, "Fall Enroliment" survey. 1987.

## Appendix B: Technical Appendix and Glossary

## Technical Appendix B--1987 Data ${ }^{8}$

## Methodology

The 1987 fall enrollment data are from the "Fall Enrollment" survey which is conducted annually by the National Center for Education Statistics as part of the new Integrated Postsecondary Education Data System (IPEDS). The IPEDS enrollment survey (first implemented in 1986) replaced.the Fall Enrollment in Institutions of Gigher Education Survey, an annual survey conducted under the Higher Education General Information Survey (aEGIS).

The "Fall Enrollment" survey was mailed to 6,762 postsecondary institutions in the United States and District of Columbia. The 6,762 institutions consisted of all 3,553 aEGIS institutions and a sample of 3,209 other postsecondary institutions, which represent the universe of 11,843 IPEDS institutions in operation in the fall of 1987 (tables B-1 and B-2). ${ }^{9}$ The 1987 IPEDS universe was determined by the IPEDS "Institutional Characteristics" (IC) survey, an annual survey of all postsecondary institutions.

While IPEDS collecta data from all postascondary institutions, the data presented in this report represent the universe of 3,564 higher education institutions in operation in the Uaited States and the District of Columbia in the fall of 1987. Data for non-HEGIS institutions are not presented, because survey response rates for these institutions did not satisfy NCES standards. (See pages 14-15 of the text and page 25 of the technical appendix for a more detailed discussion of response rates.)

## . 99 of Data Collected

There were three fall enrollment forms used for the 1987 data collection. The most extonsive form was sent to postsecondary education institutions that grant beccalaureate and higher degrees, while less detailed questionnaires were sont to 2-year and less-than-2-year institutions. Enrollment data were collected from all 4- and 2-year schools by level of enrollment, attendance and
$8_{\text {This }}$ report presents data on HEGIS institutions only. However, the technical appendix addresses data collection procedures related to the "Fall Enrollment:" survey, 1987 (i.e., HEGIS and non-HEGIS schools).
${ }^{9}$ The number of institutions of higher education in table B-1 (3,553) is the number at the time of mail-out and differs from the univarse number in table B-2 $(3,564)$, which wae pstablished subsequently to the survey mall-out. The difference reaulle from the misclassification at the time of survey mall-out of 11 institutions of higher education as other postsecondery institutions.

Table B-1.--Unweighted number and response rates of postsecondary institutions receiving the "fall Enrollment" survey, by control and level of institution: 50 States and D.C.. fall 1987

| Level of institution | Totel | Public | Total | Momprotit |
| :---: | :---: | :---: | :---: | :---: |

Mumber of institutions recaiving


SOURCE: U.S. Department of Education, National Center for Education Statistics, HFa!l Enrollment" survey, 1987.

Table 8-2. .-Mumber of postsecondary institutions in the "Fall Enrollment" survey universe, by control and level of institution: 50 States and D.C., fall 1987

| Leval of institution | Total | Public | Priveto |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | rotal | Nomprofit\| | For-profit |
| All postecoondery.......... | 12,843 | 2,216 | 9,427 | 3,186 | 6,441 |
|  Lese-then-2-year. | $\begin{aligned} & 2,61 \\ & 2,768 \\ & 6,464 \end{aligned}$ | (, ${ }_{\text {c }}^{625}$ | 1,996 1,535 $\mathbf{6}, 106$ | $\begin{array}{r} 2,877 \\ 807 \\ 502 \end{array}$ | 109 788 7604 |
| Highor ecreation. . . . . . . . . . . . | 3,564 | 1,503 | 1,976 | 1,665 | 311 |
|  | $\begin{array}{r} 2,128 \\ 1,410 \\ 26 \end{array}$ | 599 -9 | $\begin{array}{r} 1,529 \\ \begin{array}{r} 21 \\ 26 \end{array} \end{array}$ | $\begin{array}{r} 1,401 \\ 182 \\ 2 \end{array}$ | $\begin{array}{r}236 \\ 249 \\ \hline 29\end{array}$ |
| Other postemeendary........... | 8,279 | 628 | 7.651 | 1,521 | 6,130 |
| Lese-then-2-yoer. | $\begin{aligned} & 483 \\ & \text { 1,356 } \\ & 6,438 \end{aligned}$ | 26 245 350 | $\begin{gathered} 4,47 \\ 1,117 \\ 6,080 \end{gathered}$ | 396 625 500 |  |
| Includes institutions in sectors 8 and 9 that are not included in the sa |  |  |  |  |  |

degree seaking status, age, and sex. The lass-than-2-year schools were asked to furnish total enrollmant data, as well as enrollment summaries by age and sex. The 1987 data collection marks the first time that IPEDS (or HEGIS) has collected fall enrollment data by age of student; these data will be collected biennially in the future.

## Status of Data

Using the 1987 IC list of institutions, in September 1987 the "Fall Enrollment" survey was mailed to all 4-year-and-above, 2-but-less-than 4-year, and public less-than-2-year institutions; and a sample of private less-than-2-year institutions. After deleting institutions that had closed, that did not offer postsecondary programs, or that were duplicstes on the file, the survay consisted of: (1) the fall enrollment universe of 5,737 4-year, 2-year and public less-than-2-year institutions, and (2) a sample of 1,025 private less-than-2-year institutions. (In 1987, 6,106 institutions made up the IPEDS universe of private less-than-2-year institutions).

## Response Rates

The overall response rate for institutions of higher education was 90.8 percent. This is based on the ratio of the number of completed questionnaires divided by the number of in-scope institutions receiving the survey. Detalled response rates by postsecondary status are found in appendix tables B-1 and B-3. Response rates for institutions of higher education by State and control of institution are shown in appendix tables B-4 and B-5.

As indicated in appendix table B-1, the institutional response rate for higher education institutions ( 90.8 percent) is much higher than that of other postecendery institutions ( 51.4 percent). Appendix table B-3 shows the percentage ois weighted enrollment that is represented by the responding institutions. As preseated, responding institutions accounted for 96.0 percent of the fall 1987 enrollment acrose all postsecondary education institutions. 98.6 percent of enrollment among higher education institutions, and 67.4 percent of enrollmant among other postsecondary institutions.

## Imputation

Data were imputed for total nonrespondents (1.e., 9.2 percent of the HEGIS Institutions did uot respond to the "Fall Enrollment" survey) and for institutions that did not respond to specific items. Among institutions that did not respond to specific items, imputed data for items shown in tables 1 and 2 of this report account for about $s$ percent of the HEGIS

Table B-3. --Mumber and response rates weighted by enrol Iment for postsecondray institutions receiving the "Fall Enrollment" survey, by control and level of institution: 50 States and O.C., fall 1987

rotal fall enrollment in institutions receiving

| All postzacondary. . . . . . . . . . | 3,964,079 | 10,331,628 | 3,632,451 | 2,772,344 | 860,107 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4-year-and-ebpow. <br> 2-but-1ess-then-4-year....... . <br> Less-than-2-year. . . . . . . . . . . . | $\begin{aligned} & 8,121,877 \\ & 5 ; 630 ; 049 \\ & 804,253 \end{aligned}$ | $\begin{array}{r} 5,460,122 \\ 4669,969 \\ 176,546 \end{array}$ | $\begin{array}{r} 2,661,755 \\ 343,089 \\ 627,607 \end{array}$ | $\begin{array}{r} 2,60 r, 923 \\ 129,611 \\ 41,810 \end{array}$ | $\begin{array}{r} 60,832 \\ 215,478 \\ 585,797 \end{array}$ |
| Higher echuetion. . . . . . . . . . . | 1,771,645 | 9,975,064 | 2,796,581 | 2,602,205 | 194,376 |
| 4-ymar-and-above. . . . . . . . . . . . . <br> 2-6ut-less-then-4-yaar. . . . . . <br> Lese-then-2-year. . . . . . . . . . . . | $\begin{array}{r} 7.992,085 \\ 4 ; 771 ; 589 \\ 7,971 \end{array}$ | $\begin{aligned} & 5,434,010 \\ & 4,541,054 \end{aligned}$ | $\begin{array}{r} 2,559,075 \\ 230,535 \\ 7,971 \end{array}$ | $\begin{array}{r} 2,512,103 \\ 89,922 \\ 160 \end{array}$ | $\begin{array}{r} 45,972 \\ 140,613 \\ 7,791 \end{array}$ |
| Other postscoondary. . . . . . . . . | 1,192,434 | 356,564 | 835,870 | 170,139 | 665,731 |
| 4-yaar-and-above. <br> 2.but-less-then-4-year....... <br> Less-then-2-year. ........... . . . | $\begin{aligned} & 129,792 \\ & 266 ; 460 \\ & 76 ; 182 \end{aligned}$ | $\begin{array}{r} 26,112 \\ 153,906 \\ 176,546 \end{array}$ | $\begin{aligned} & 103,680 \\ & 112,554 \\ & 619,636 \end{aligned}$ | $\begin{aligned} & 88,820 \\ & 39,689 \\ & 41,630 \end{aligned}$ | $\begin{array}{r} 14,860 \\ 72,865 \\ 578,006 \end{array}$ |
|  |  |  |  |  |  |
| A11 postsecondary. . . . . . . . . | ,398,78A | 10,107,806 | 3,290,902 | 2,636,089 | 654,893 |
| 4-year-and-ebove. <br> 2-but-lese-than-4-y.iar....... <br> Less-than-2-year. . ............. | $\begin{array}{r} 7,933,509 \\ 4,053,207 \\ 612,072 \end{array}$ | $\begin{array}{r} 5,390,747 \\ 4,590 ; 678 \\ 126,381 \end{array}$ | $\begin{array}{r} 2,542,762 \\ 262,529 \\ 405,691 \end{array}$ | $\begin{array}{r} 2,495,629 \\ 106,569 \\ 33,891 \end{array}$ | $\begin{array}{r} 47,133 \\ 155,960 \\ 451,800 \end{array}$ |
| Higher ectroetion. . . . . . . . . . . . | 12,594,966 | 9,889,364 | 2,705,602 | 2,539,446 | 166,156 |
| 4-year-and-gbove. <br> 2-but-lese-then-4-year... . . . . <br> Less-then-2-year. . . . . . . . . . . . | $\begin{array}{r} 7,885,011 \\ 4,704,820 \\ 5,135 \end{array}$ | $\begin{array}{r} 5,380,717 \\ 4,500,647 \end{array}$ | $\begin{array}{r} 2,496,294 \\ 204,173 \\ 5,135 \end{array}$ | $\begin{array}{r} 2,452,909 \\ 86,537 \\ \hline \end{array}$ | $\begin{array}{r} 43,385 \\ 117,636 \\ 5,135 \end{array}$ |
| 0ther pesteccondary . . . . . . . . . . . | 803, 822 | 218,442 | 585,380 | 96,643 | 488,737 |
| 4-year-and-above <br> 2-but-lese-then-4-year....... <br> Less-then-2-year............... | $\begin{array}{r} 40,498 \\ 146,387 \\ 606,937 \end{array}$ | $\begin{array}{r} 2,030 \\ 90 ; 031 \\ 126,381 \end{array}$ | $\begin{array}{r} 46,460 \\ 58,356 \\ 480,556 \end{array}$ | $\begin{aligned} & 42,720 \\ & 20,032 \\ & 33,891 \end{aligned}$ | $\begin{array}{r} 3,748 \\ 38,324 \\ 446,665 \end{array}$ |
| Response rate |  |  |  |  |  |
| All postsecondary. . . . . . . . . . | 96.0 | 97.8 | 90.6 | 95.1 | 76.1 |
|  | 97.7 96.3 76.1 | 98.7 971.6 | 95.5 76.5 77.4 | 96.0 82.2 81.1 | 77.5 73.1 |
| Migher acuration............... | 98.6 | 99.1 | 96.7 | 97.6 | 25.5 |
| 4-yar-and-sbove............$~$ | 98.7 98.6 64.4 | 99.2 | 97.6 88.6 64.4 | 97.6 <br> 96.2 <br> -8 | 94.4 83.7 .65 .9 |
| 0ther pos tscoondiary . . . . . . . . . . | 67.4 | 61.3 | 70.0 | 56.8 | 73.4 |
| 4-year-and-gbove. <br> 2-8ut-less-then-4-year....... <br> Less-then-2-year. . . . . . . . . . . . . | 37.4 55.7 76.2 | 7.8 58.5 71.6 | 44.8 51.8 77.6 | 48.1 50.5 81.4 | 25.2 52.6 77.3 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment" survey, 1987.

Table B-4. --Survey response rates of institutions of higher education, by control and State or, other area: Fall 1987


Table 8-4. --Survey response rates of institutions of higher education, by control and State or other area: Fall 1987--Continued


SOURCE:
U.S. Department of Education, National Center for Education statistics, "Fall Enrollment" survey, 1987.

Table B-5. --Survey response rates of institutions of higher education weighted by total fall enroliment, by control and State or other area: Fall 1987


Tabla B-5. --Survey response rates of institutions of higher education weighted by total fall enrollment, by control and State or other area: Fall 1987--Continued


SOURCE: U.S. Department of Education, National Center for Education statistics, "Fall Enrollment" survey, 1987.
snrollment, on avarage, while imputed data for items shown in table 3 of this report account for about 10 percent of the $H E G I S$ enroliment, on average.

For institutions with a valid response to the survey in 1986, but not in 1987, imputations for form and/or item nonresponse were based on that institution's 1986 ffsponse, except for age imputations which were based on "hot deck matching" 10 to 1987 survey respondents having valid responsen. For institutions with no prior-year survey response, imputations for all items were based on hot deck matching to 1987 survey respondents having valid responses.

## Data Editing

All survey data were edited for addition errors and for consistency with the prior year's response. Total lines were computer generated and compared to the reported totals. If the generated total was within $\pm 5$ percent of the reported total, the generated total replaced the reported total (imputation code - 1): otherwise, inatitutions were contacted to resolve these discrepancies.

## Students Included In This Report:

- Students enrolled in colleges and universities which are accredited by an agency recognized by the Secretary of Education;
students enrolied in courses creditable toward a degree or other formal award;
students enrolled in courses that are part of a vocational or occupational program, including those anrolled in off-campus centers; and
high school tudente taking regular college courses for credit.
${ }^{10}$ Bot deck matching involves inserting individual values drawn from similar respondiag units. Imputations for achoole with no prior response were based on hot deck matching to similer institutions that provided valid reporta. These matches were selected from stratifications of institutions by enrollment size and sector. Sector is determined by inatitutional control (public, private nonprofit, private for-profit) and highest level of offering (4-year-and-above, 2-but-less-than 4 -year, and 1ess-than-2-year).


## Students Excluded from Thls Report:

```
- students enrolled exclusively f courses not creditable toward a
        formal award or vocational prog m;
    students exclusively audicing clasees:
- gtudente studying abroad (e.g., at a foreign university) if their
        enrollment at the U.S. institution is only an administrative record
        and the fee is only nominal; and
- students in any branch campus of a U.S. postsecondary institution
        located in a foreign country.
```


## Using The Fall Enrollment Data Tape

The definitions and instructions for compiling IPEDS data have been designed to minimize problems encountered in institutional data comparisons. Nevertheless, postsecondary institutions differ widely from each other. As a result of these differences, comparisons of data provided by individual inatitutions may be misleading.

In addition, while caution should always be exercised in comparing institutions that have imputed data in the file, the imputation process for hot deck matching of inatitutions needs more refinement, thus making comperisons potentially more misleading.

## Glossary

Prist-profegetonel student. A student enrolled in any of the following degree programs:

Chiropractic (D.C. or D.C.M.)
Dentistry (D.D.S. or D.M.D.)
Medicine (M.D.)
Law (L.L.B. or J.D.)
Optometry (O.D.)
Osteopathic Medicine (D.O.)

Pharmacy (D. Phar.)
Podiatry (Pod. D. or D.P.)
Theology (M. Div., M.H.L., or B.D.)
Veterinary Medicine (D.V.M.)

Graduste student. A student who holds a bachelor's or first-professional degree, or equivalent, and is taking courses at the postbaccalaureate level. These studente may or may not be enrolled in graduate programs.

## Level of inetitution.

(1) Pour-year inetitution. Institutions with a primary purpose of providing postsecondary education and which award at least a beccalaureate or higher degree in one or more programs.
(2) Two-pear ineti rution. Institutions with a primary purpose of providing postsecondary education and confer at least a 2 -year formal award (certificate or associate degreaj, or have a 2 -year program that is creditable toward a baccalaureate or ligher degree in one or more programs, but do not award a baccalaureate degree.
(3) Leff-than-2-yenc institution. Institutions with a primary purpose of providing poscsecondary education, and its programs are less-than-2-gears in duration and result in a terminal occupational award, or are creditable toward a formal 2 -year or higher award.

Unclegeifind atydent. A student taking courses creditable toward a degree or other formal award who cannot be claseified by academic level. For axampie, this could include a transfer atudent whose earned credits have not been determined at the time of the fall report.

Undereraduate etudent. A intudent enrolled in a 4- or 5-year bachelor's degree program, in an aseociate degree program, or in a vocational or technical program below the baccalaureate.

# Appendix C: Listing of IPEDS State Coordinators 

| IREDS COORDIMATORS | STATE |
| :---: | :---: |
| Rqward Rutledge | Alabama |
| Diane barrans | Argka |
| tarpa spann | Mrizona |
| Doris Stemart | Artansas |
| Marc Irish | California |
| haron samson | cotorado |
| hat corrosi | connecticut |
|  | District of Columbia |
| Lewis wagar | Prorida of Columbia |
| Haskins Ppunds | Georgia |
| cerictertentey | Georga |
| ue icelnnisy | Hawati |
| reas Mocetini | Idahe |
| Jorry ystrom | Idaho |
| Carolyn. Hoodryff | Illinois |
| bact valeptine | Indiana |
| Johngon | Iowa |
| Julian Bird | Sansas. |
| Sue medade | Rentucky |
| Don Mood | Louisjana |
| cry Tremblay | Louisiana |
| bert silberzweig | farsiand |
| Ronald Birgn | Haskachusetts |
| Catherine smith | Michigan |
| Julie Schoenecker | Minnesota |
| Maryant Ruddock | Mfsissippi |
| Ehtilippos Brooks | Misbouri |

IPEDS COORDINATORS


James Buspelle
Greg Schuler
Linda $0^{\prime}$ Connor
Frank Carrasco
Jinda Brady
Ninda Balfour
Ruspelippyinn
Leon Gust
Yohn jestine
Gerald Hottinger
Ramon Burgos-Diaz
Micha peitrosa
Roxie Thielen
Becky Raines
Vernon stewart
Susanne viette
Susanne Vfitanti
Hugh Walkup
James Preston
Brenda Kirsch
Ewin Cammack
R. Carol Smith

STATE
Nebraska Nevaga Nevad
New Hampshire New Jartey
New Jersey
New Yexico
North Carolina North Dakota Ôfio
Qklahoma
oregon
pennsflyania
Puerto Rico Rhode tsiand South Carolina
South Dakota Tennessee
Texas
Utah Vermont

## Washington <br> Nest Virginia <br> Htsconsf <br> Wisconsin <br> Wisconsin <br> Wyoming


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[^2]:    Source: U.S. Department of Education, Naílonal Centor for Education Statiatice, 'Fall Enfollment' aur vey, 1970-1987.

