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ABSTRACT

Data from the Survey on Higher Education Finances and Services were analyzed to determine whether higher education institutions (n=711) experienced operating budget cuts during the fiscal year (after the budget was initially approved) between fiscal years 1990 and 1993. While 17 percent had experienced such cuts during fiscal year 1990, this percentage rose to about one-third of all institutions during fiscal years 1991 through 1993. A greater proportion of public than private nonprofit institutions experienced budget cuts. The major reason for cuts given by public institutions was rescissions in state or local appropriations; for private institutions, the most frequently cited reason was tuition and fees shortfall. Increases in class size for introductory courses were reported by 29 percent of institutions; 19 percent reported increases in class size for advanced courses. Few institutions reported decreases in the number of courses or sections offered. The number of academic departments stayed the same at 77 percent of institutions; the number of academic programs stayed the same at 56 percent of institutions. Very few institutions reported decreases in their key student services since academic year 1989-90. Ten tables and two graphs display the survey data. (JDD)

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# NATIONAL CENTER FOR EDUCATION STATISTICS

## Statistics in Brief

February 1995

### Higher Education Finances and Services

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Did higher education institutions experience cuts in their operating budgets during the fiscal year (after the budget was initially approved) from fiscal years 1990 to 1993, and what were the reasons for any such cuts? Have institutions increased or decreased key academic offerings and student services since 1989-90, and what are the reasons for such increases or decreases? How do the responses to these items vary by institutional control? Information to answer these questions is reported in the National Center for Education Statistics' *Survey on Higher Education Finances and Services*, conducted in 1993 through the Postsecondary Education Quick Information System (PEQIS).

A great deal was being written between 1991 and 1993 about the fiscal crisis in higher education. Articles appearing in such publications as *The Washington Post*, *The Chronicle of Higher Education*, and *Science* discussed the budgetary woes of colleges and universities. Reports such as those issued by the American Association of State Colleges and Universities Council of State Representatives, the American Council on Education, and by individual institutions and states provided some general information about the financial situation for higher education. Among the issues discussed in articles and reports were mid-year budget cuts (particularly at public institutions) and changes in academic offerings and student services as approaches to dealing with the changing financial climate at colleges and universities. However, nationally representative, institution-level information was lacking. This survey was conducted to provide that information.

#### What proportion of institutions had cuts in their operating budget during the fiscal year?

About a third of all institutions had cuts in their operating budgets during the fiscal year (after the budget was initially approved) for fiscal years 1991 through 1993 (table 1). This is a substantial increase over fiscal year 1990, when 17 percent of institutions had cuts in their operating budgets during the year. There was substantial variation by institutional control, with a greater proportion of public than private nonprofit institutions experiencing budget cuts during each fiscal year. For public institutions, the proportion of institutions with budgets cuts during the year ranged from 27 percent in fiscal year 1990 to 55 percent in fiscal year 1992; for private nonprofit institutions, the proportions ranged from 7 percent in fiscal year 1990 to 27 percent in fiscal year 1993.

The major reason for budget cuts also differed by institutional control. In each fiscal year, the major reason for cuts given by 9 out of 10 of the public institutions that had experienced cuts was rescissions in state or local appropriations. For private nonprofit institutions, the most frequently selected reason for cuts in each fiscal year was tuition

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Table 1.--Percent of institutions indicating cuts in their operating budgets during the fiscal year (after the budget was initially approved) for fiscal years 1990 through 1993, and percent giving each of various reasons as the major reason for the budget cuts, by institutional control: 1993

| Budget cuts   | All institutions |      | Control |      |                   |      |
|---|------------------|------|---------|------|-------------------|------|
|   |                  |      | Public  |      | Private nonprofit |      |
|   | Percent          | s.e. | Percent | s.e. | Percent           | s.e. |
| <b>Fiscal year 1990</b>                                       |                  |      |         |      |                   |      |
| Had cuts in operating budget during the year . . . . .        | 17               | 1.0  | 27      | 1.8  | 7                 | 0.8  |
| Major reason for budget cuts*                                 |                  |      |         |      |                   |      |
| Rescissions in state or local appropriations . . . . .        | 71               | 2.8  | 89      | 2.8  | ↓                 | ↓    |
| Tuition and fees shortfall . . . . .                          | 18               | 2.1  | 1       | 1.1  | ↓                 | ↓    |
| Drop in endowment income from expected levels . . . . .       | 0                | --   | 0       | --   | ↓                 | ↓    |
| Cancellation or postponement of grants or contracts . . . . . | 1                | 0.6  | 1       | 0.7  | ↓                 | ↓    |
| Other reason . . . . .  | 9                | 2.5  | 9       | 2.6  | ↓                 | ↓    |
| <b>Fiscal year 1991</b>                                       |                  |      |         |      |                   |      |
| Had cuts in operating budget during the year . . . . .        | 33               | 1.5  | 49      | 2.6  | 19                | 2.8  |
| Major reason for budget cuts*                                 |                  |      |         |      |                   |      |
| Rescissions in state or local appropriations . . . . .        | 66               | 3.5  | 91      | 2.7  | 7                 | 5.5  |
| Tuition and fees shortfall . . . . .                          | 22               | 2.7  | 2       | 1.7  | 67                | 9.4  |
| Drop in endowment income from expected levels . . . . .       | 2                | 1.8  | 0       | --   | 7                 | 5.7  |
| Cancellation or postponement of grants or contracts . . . . . | 1                | 0.4  | 0       | --   | 3                 | 1.3  |
| Other reason . . . . .  | 9                | 1.9  | 7       | 1.6  | 16                | 7.0  |
| <b>Fiscal year 1992</b>                                       |                  |      |         |      |                   |      |
| Had cuts in operating budget during the year . . . . .        | 39               | 1.7  | 55      | 2.4  | 25                | 1.9  |
| Major reason for budget cuts*                                 |                  |      |         |      |                   |      |
| Rescissions in state or local appropriations . . . . .        | 65               | 2.8  | 93      | 2.4  | 6                 | 3.4  |
| Tuition and fees shortfall . . . . .                          | 19               | 2.6  | 1       | 0.6  | 56                | 7.7  |
| Drop in endowment income from expected levels . . . . .       | 5                | 2.8  | 0       | --   | 16                | 8.7  |
| Cancellation or postponement of grants or contracts . . . . . | 1                | 1.0  | 1       | 1.4  | 1                 | 0.7  |
| Other reason . . . . .  | 10               | 3.4  | 4       | 1.3  | 20                | 8.3  |
| <b>Fiscal year 1993</b>                                       |                  |      |         |      |                   |      |
| Had cuts in operating budget during the year . . . . .        | 34               | 2.6  | 42      | 2.3  | 27                | 5.3  |
| Major reason for budget cuts*                                 |                  |      |         |      |                   |      |
| Rescissions in state or local appropriations . . . . .        | 55               | 5.1  | 88      | 3.6  | 8                 | 2.7  |
| Tuition and fees shortfall . . . . .                          | 26               | 3.5  | 5       | 1.8  | 57                | 5.8  |
| Drop in endowment income from expected levels . . . . .       | 3                | 1.8  | 1       | 0.8  | 7                 | 3.9  |
| Cancellation or postponement of grants or contracts . . . . . | 4                | 1.8  | 2       | 1.0  | 6                 | 3.9  |
| Other reason . . . . .  | 12               | 3.4  | 4       | 1.8  | 23                | 8.0  |

\*Percents in these rows are based on institutions that had budget cuts during that fiscal year. Percents may not sum to 100 because of rounding.

--Estimate of standard error is not derived because it is based on a statistic estimated at 0 percent.

↓Too few cases for a reliable estimate.

NOTE: s.e. is standard error. Data for all 4 academic years were reported in 1993. Data are for public and private nonprofit higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

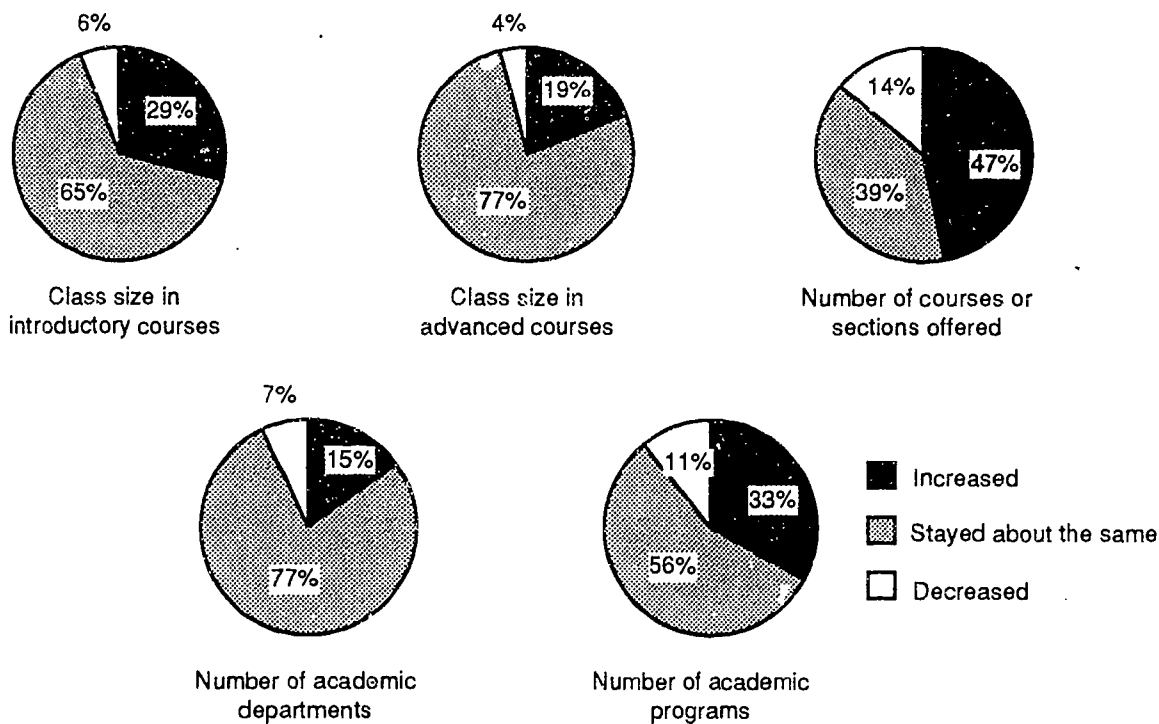
and fees shortfall, selected by 56 to 67 percent of the institutions with budget cuts in fiscal years 1991 through 1993.

### Have institutions changed key academic offerings since 1989-90?

Most institutions reported that class size had stayed about the same since 1989-90 for introductory courses (65 percent) and advanced courses (77 percent; figure 1). Increases in class size for introductory courses were reported by 29 percent of institutions; 19 percent reported increases in class size for advanced courses. Public institutions were more likely than private nonprofit institutions to have increased class size in introductory courses (table 2).

Few institutions (14 percent) reported decreases in the number of courses or sections offered (figure 1). Instead, institutions tended to report that they either increased the number of courses or sections offered (47 percent) or that there had been no net change in the number offered (39 percent). The number of academic departments and number of academic programs were reported to have stayed about the same at 77 percent and 56 percent of institutions, respectively; only 7 and 11 percent of institutions reported decreases in the number of departments and programs (figure 1). There were few differences by institutional control. Private nonprofit institutions were more likely than public institutions to have increased the number of academic programs (table 2).

Figure 1.--Percent of institutions indicating how academic offerings at the institution had changed since academic year 1989-90: 1993



NOTE: Data are for public and private nonprofit higher education institutions in the 50 states, the District of Columbia, and Puerto Rico. Percents may not sum to 100 because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

Table 2.--Percent of institutions indicating increases or decreases in academic offerings since academic year 1989-90, by institutional control: 1993

| Academic offerings                              | Increased* |      |         |      |                   |      | Decreased* |      |         |      |                   |      |
|---|------------|------|---------|------|-------------------|------|------------|------|---------|------|-------------------|------|
|   | All        |      | Public  |      | Private nonprofit |      | All        |      | Public  |      | Private nonprofit |      |
|   | Percent    | s.e. | Percent | s.e. | Percent           | s.e. | Percent    | s.e. | Percent | s.e. | Percent           | s.e. |
| Class size in introductory courses . .          | 29         | 1.6  | 34      | 2.6  | 23                | 2.5  | 6          | 0.9  | 4       | 1.0  | 9                 | 2.1  |
| Class size in advanced courses . . .            | 19         | 2.3  | 23      | 2.0  | 15                | 3.1  | 4          | 0.8  | 2       | 0.6  | 6                 | 1.5  |
| Number of courses or sections offered . . . . . | 47         | 1.5  | 48      | 1.8  | 45                | 2.4  | 14         | 1.5  | 19      | 1.8  | 10                | 2.6  |
| Number of academic departments . . .            | 15         | 1.8  | 13      | 1.7  | 18                | 2.8  | 7          | 1.5  | 8       | 1.0  | 6                 | 2.8  |
| Number of academic programs . . . .             | 33         | 2.3  | 26      | 2.4  | 40                | 3.9  | 11         | 1.9  | 14      | 1.6  | 7                 | 2.8  |

\*Responses for "increased," "decreased," and "stayed about the same" sum to 100 percent. Percents for "stayed about the same" are not shown on the table.

NOTE: s.e. is standard error. Data are for public and private nonprofit higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

### What are the major reasons for increases in class size and other academic offerings?

The major reasons for increases in introductory and advanced class size (among institutions that reported such increases) were budgetary reasons and "other reasons"<sup>1</sup> for public institutions (table 3), and "other reasons" for private nonprofit institutions (table 4). For both public and private nonprofit institutions, institutional policy and "other reasons" were reported most frequently as the reasons for increases in the other academic offerings (i.e., courses or sections offered, academic departments, and academic programs).

### What are the major reasons for decreases in class size and other academic offerings?

Public institutions that had decreases in the specific academic offerings cited budgetary reasons as the major reason for decreases in the number of courses or sections offered, number of academic departments, and number of academic programs (table 5). There were too few cases for a reliable estimate for public institutions for class size in introductory and advanced courses and for all academic offerings for private nonprofit institutions.

Table 3.--Percent of public institutions indicating each of various reasons as the major reason for increases in academic offerings since 1989-90: 1993

| Academic offerings                              | Major reason for increases* |      |                    |      |                      |      |               |      |
|---|-----------------------------|------|--------------------|------|----------------------|------|---------------|------|
|   | Budgetary reasons           |      | State/local policy |      | Institutional policy |      | Other reasons |      |
|   | Percent                     | s.e. | Percent            | s.e. | Percent              | s.e. | Percent       | s.e. |
| Class size in introductory courses . . . . .    | 51                          | 3.6  | 0                  | --   | 16                   | 4.5  | 32            | 3.7  |
| Class size in advanced courses . . . . .        | 46                          | 4.7  | 2                  | 1.6  | 16                   | 3.6  | 36            | 5.3  |
| Number of courses or sections offered . . . . . | 2                           | 0.9  | 2                  | 0.9  | 28                   | 3.2  | 67            | 2.9  |
| Number of academic departments . . . . .        | 0                           | --   | 1                  | 0.4  | 58                   | 5.9  | 42            | 5.9  |
| Number of academic programs . . . . .           | 3                           | 1.6  | 6                  | 2.9  | 49                   | 6.4  | 42            | 6.3  |

\*Percents in these columns are based on public institutions that had increases in that academic offering since 1989-90. Percents are computed across each row, but may not sum to 100 because of rounding.

--Estimate of standard error is not derived because it is based on a statistic estimated at 0 percent.

NOTE: s.e. is standard error. Data are for public higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

Table 4.--Percent of private nonprofit institutions indicating each of various reasons as the major reason for increases in academic offerings since 1989-90: 1993

| Academic offerings                              | Major reason for increases* |      |                    |      |                      |      |               |      |
|---|-----------------------------|------|--------------------|------|----------------------|------|---------------|------|
|   | Budgetary reasons           |      | State/local policy |      | Institutional policy |      | Other reasons |      |
|   | Percent                     | s.e. | Percent            | s.e. | Percent              | s.e. | Percent       | s.e. |
| Class size in introductory courses . . . . .    | 15                          | 7.3  | 0                  | --   | 24                   | 6.6  | 61            | 4.0  |
| Class size in advanced courses . . . . .        | 1                           | 1.3  | 0                  | --   | 23                   | 10.4 | 76            | 10.6 |
| Number of courses or sections offered . . . . . | 2                           | 1.0  | 0                  | --   | 43                   | 8.4  | 55            | 8.4  |
| Number of academic departments . . . . .        | 0                           | --   | 0                  | --   | 82                   | 5.3  | 18            | 5.3  |
| Number of academic programs . . . . .           | 6                           | 4.5  | 0                  | --   | 68                   | 6.8  | 26            | 4.9  |

\*Percents in these columns are based on private nonprofit institutions that had increases in that academic offering since 1989-90. Percents are computed across each row, but may not sum to 100 because of rounding.

--Estimate of standard error is not derived because it is based on a statistic estimated at 0 percent.

NOTE: s.e. is standard error. Data are for private nonprofit higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

Table 5.--Percent of public institutions indicating each of various reasons as the major reason for decreases in academic offerings since 1989-90: 1993

| Academic offering:                              | Major reason for decreases* |      |                    |      |                      |      |               |      |   |
|---|-----------------------------|------|--------------------|------|----------------------|------|---------------|------|---|
|   | Budgetary reasons           |      | State/local policy |      | Institutional policy |      | Other reasons |      |   |
|   | Percent                     | s.e. | Percent            | s.e. | Percent              | s.e. | Percent       | s.e. |   |
| Class size in introductory courses . . . . .    | ‡                           | ‡    | ‡                  | ‡    | ‡                    | ‡    | ‡             | ‡    | ‡ |
| Class size in advanced courses . . . . .        | ‡                           | ‡    | ‡                  | ‡    | ‡                    | ‡    | ‡             | ‡    | ‡ |
| Number of courses or sections offered . . . . . | 78                          | 6.3  | 2                  | 1.1  | 6                    | 4.0  | 14            | 4.4  |   |
| Number of academic departments . . . . .        | 55                          | 6.6  | 3                  | 2.1  | 22                   | 6.0  | 20            | 5.4  |   |
| Number of academic programs . . . . .           | 58                          | 5.3  | 10                 | 3.9  | 16                   | 5.5  | 15            | 4.2  |   |

\*Percents in these columns are based on public institutions that had decreases in that academic offering since 1989-90. Percents are computed across each row, but may not sum to 100 because of rounding.

‡Too few cases for a reliable estimate.

NOTE: s.e. is standard error. Data are for public higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

### Have institutions decreased key student services since 1989-90?

Very few institutions (between 4 and 7 percent) reported decreases in their key student services since academic year 1989-90 (figure 2); half to three-quarters of the institutions indicated that there had been no net changes in student services since 1989-90. Where changes had occurred, they were likely to be increases rather than decreases. About a fifth of institutions reported increases in student health services and library operating hours, about a third reported increases in student personal counseling services and career guidance and job placement services, and 39 percent said they had increases in student academic tutoring.

There were few differences by institutional control. Public institutions were more likely than private nonprofit institutions to have increased student academic tutoring, and were more likely to have decreased library operating hours (table 6).

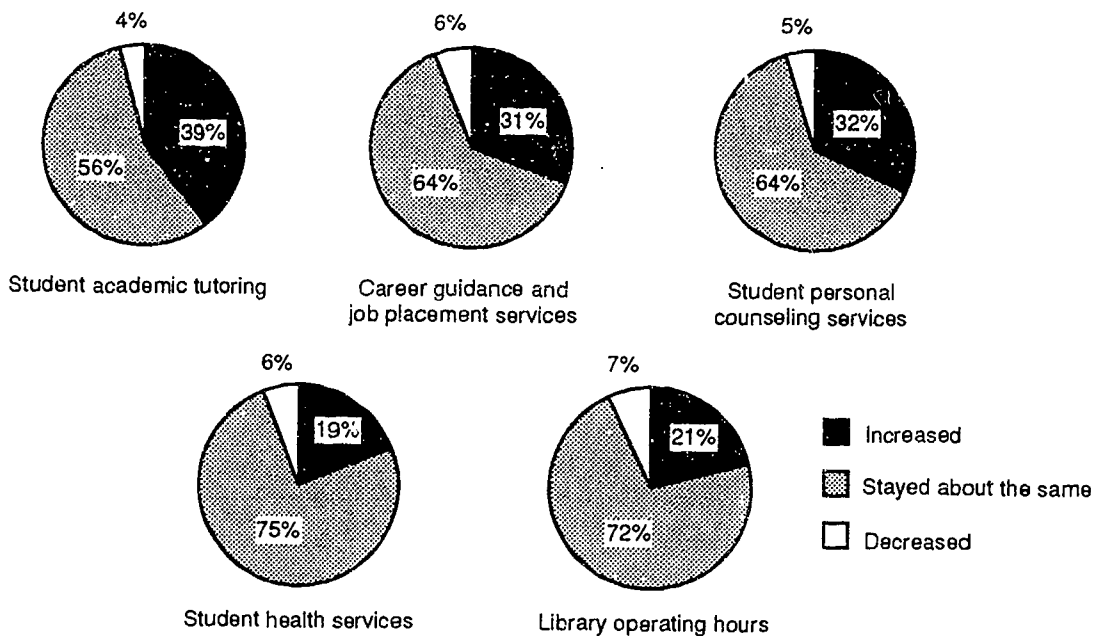
### What are the major reasons for increases in student services?

For both public and private nonprofit institutions, the major reasons for increases in student services (among institutions that reported such increases) were institutional policy and "other reasons" (tables 7 and 8). Few institutions reported that budgetary reasons or state/local policy were the reasons for increases in student services, except for student health services, where 8 percent of public and 15 percent of private nonprofit institutions that had increases reported that state/local policy was the major reason for increases in this service.

### What are the major reasons for decreases in student services?

Public institutions that had decreases in the specific student services cited budgetary reasons as the major reason for decreases in career guidance and job placement services, student personal counseling services, and library operating hours (table 9). There

Figure 2.--Percent of institutions indicating how student services at the institution had changed since academic year 1989-90: 1993



NOTE: Data are for public and private nonprofit higher education institutions in the 50 states, the District of Columbia, and Puerto Rico. Percents may not sum to 100 because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System Survey on Higher Education Finances and Services, 1993.

Table 6.--Percent of institutions indicating increases or decreases in student services since academic year 1989-90, by institutional control: 1993

| Student services                                     | Increased* |      |         |      |                   |      | Decreased* |      |         |      |                   |      |
|--|------------|------|---------|------|-------------------|------|------------|------|---------|------|-------------------|------|
|  | All        |      | Public  |      | Private nonprofit |      | All        |      | Public  |      | Private nonprofit |      |
|  | Percent    | s.e. | Percent | s.e. | Percent           | s.e. | Percent    | s.e. | Percent | s.e. | Percent           | s.e. |
| Student academic tutoring . . . . .                  | 39         | 2.1  | 47      | 2.3  | 32                | 3.3  | 4          | 1.0  | 5       | 0.8  | 4                 | 1.8  |
| Career guidance and job placement services . . . . . | 31         | 2.3  | 29      | 2.2  | 32                | 3.7  | 6          | 0.9  | 6       | 1.1  | 5                 | 1.5  |
| Student personal counseling services                 | 32         | 1.6  | 31      | 2.4  | 33                | 2.3  | 5          | 0.8  | 7       | 1.2  | 2                 | 1.0  |
| Student health services . . . . .                    | 19         | 1.6  | 20      | 2.1  | 18                | 2.7  | 6          | 0.9  | 5       | 1.0  | 7                 | 1.5  |
| Library operating hours . . . . .                    | 21         | 1.6  | 20      | 2.3  | 22                | 1.8  | 7          | 0.8  | 11      | 1.2  | 3                 | 1.3  |

\*Responses for "increased," "decreased," and "stayed about the same" sum to 100 percent. Percents for "stayed about the same" are not shown on the table.

NOTE: s.e. is standard error. Data are for public and private nonprofit higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.



Table 7.--Percent of public institutions indicating each of various reasons as the major reason for increases in student services since 1989-90: 1993

| Student services                                     | Major reason for increases* |      |                    |      |                      |      |               |      |
|--|-----------------------------|------|--------------------|------|----------------------|------|---------------|------|
|  | Budgetary reasons           |      | State/local policy |      | Institutional policy |      | Other reasons |      |
|  | Percent                     | s.e. | Percent            | s.e. | Percent              | s.e. | Percent       | s.e. |
| Student academic tutoring . . . . .                  | 2                           | 0.7  | 3                  | 1.2  | 52                   | 3.1  | 43            | 3.2  |
| Career guidance and job placement services . . . . . | 3                           | 1.4  | 4                  | 1.3  | 49                   | 5.3  | 44            | 5.4  |
| Student personal counseling services . . . . .       | 7                           | 2.6  | 5                  | 2.5  | 46                   | 4.0  | 47            | 4.1  |
| Student health services . . . . .                    | 1                           | 0.6  | 8                  | 3.0  | 50                   | 5.5  | 41            | 5.0  |
| Library operating hours . . . . .                    | 4                           | 2.0  | 5                  | 2.1  | 66                   | 6.3  | 25            | 5.3  |

\*Percents in these columns are based on public institutions that had increases in that student service since 1989-90. Percents are computed across each row.

NOTE: s.e. is standard error. Data are for public higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

Table 8.--Percent of private nonprofit institutions indicating each of various reasons as the major reason for increases in student services since 1989-90: 1993

| Student services                                     | Major reason for increases* |      |                    |      |                      |      |               |      |
|--|-----------------------------|------|--------------------|------|----------------------|------|---------------|------|
|  | Budgetary reasons           |      | State/local policy |      | Institutional policy |      | Other reasons |      |
|  | Percent                     | s.e. | Percent            | s.e. | Percent              | s.e. | Percent       | s.e. |
| Student academic tutoring . . . . .                  | 2                           | 0.7  | 0                  | --   | 62                   | 5.6  | 36            | 5.7  |
| Career guidance and job placement services . . . . . | 6                           | 4.6  | 0                  | --   | 55                   | 5.5  | 39            | 6.1  |
| Student personal counseling services . . . . .       | 4                           | 4.1  | 2                  | 1.4  | 58                   | 4.7  | 36            | 5.8  |
| Student health services . . . . .                    | 0                           | --   | 15                 | 4.9  | 71                   | 7.7  | 13            | 5.1  |
| Library operating hours . . . . .                    | 0                           | --   | 0                  | --   | 80                   | 5.3  | 20            | 5.3  |

\*Percents in these columns are based on private nonprofit institutions that had increases in that student service since 1989-90. Percents are computed across each row, but may not sum to 100 because of rounding.

--Estimate of standard error is not derived because it is based on a statistic estimated at 0 percent.

NOTE: s.e. is standard error. Data are for private nonprofit higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

Table 9.--Percent of public institutions indicating each of various reasons as the major reason for decreases in student services since 1989-90: 1993

| Student services                                     | Major reason for decreases* |      |                    |      |                      |      |               |      |
|--|-----------------------------|------|--------------------|------|----------------------|------|---------------|------|
|  | Budgetary reasons           |      | State/local policy |      | Institutional policy |      | Other reasons |      |
|  | Percent                     | s.e. | Percent            | s.e. | Percent              | s.e. | Percent       | s.e. |
| Student academic tutoring . . . . .                  | ↓                           | ↓    | ↓                  | ↓    | ↓                    | ↓    | ↓             | ↓    |
| Career guidance and job placement services . . . . . | 80                          | 7.4  | 0                  | --   | 6                    | 3.6  | 15            | 6.5  |
| Student personal counseling services . . . . .       | 90                          | 5.5  | 0                  | --   | 5                    | 5.0  | 4             | 2.6  |
| Student health services . . . . .                    | ↓                           | ↓    | ↓                  | ↓    | ↓                    | ↓    | ↓             | ↓    |
| Library operating hours . . . . .                    | 100                         | --   | 0                  | --   | 0                    | --   | 0             | --   |

\*Percents in these columns are based on private nonprofit institutions that had decreases in that student service since 1989-90. Percents are computed across each row, but may not sum to 100 because of rounding.

--Estimate of standard error is not derived because it is based on a statistic estimated at 0 or 100 percent.

↓Too few cases for a reliable estimate.

NOTE: s.e. is standard error. Data are for public higher education institutions in the 50 states, the District of Columbia, and Puerto Rico.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

were too few cases for a reliable estimate for public institutions for student academic tutoring and student health services, and for all services for private nonprofit institutions.

### Technical Notes

The *Survey on Higher Education Finances and Services* was conducted in spring 1993 by the National Center for Education Statistics using the Postsecondary Education Quick Information System (PEQIS). PEQIS is designed to collect limited amounts of policy-relevant information quickly from a previously recruited nationally representative stratified sample of postsecondary institutions. PEQIS surveys are generally limited to 2 to 3 pages of questions with a response burden of 30 minutes per respondent. The survey was mailed to the PEQIS survey coordinators at 787 2-year and 4-year public and private nonprofit higher education institutions. Completed questionnaires were received from 711 of the 780 eligible institutions,<sup>2</sup> for an unweighted survey response rate of 91 percent (the weighted survey response rate is 90 percent). All estimates for the 1990, 1991, 1992, and 1993 fiscal years are based on data reported by the institution in spring 1993.

The sample size and pattern of results did not allow for indepth analyses of many aspects of the data.

The response data were weighted to produce national estimates. The weights were designed to adjust for the variable probabilities of selection and differential nonresponse. The findings in this report are estimates based on the sample selected and, consequently, are subject to sampling variability. The standard error is a measure of the variability of estimates due to sampling. It indicates the variability of a sample estimate that would be obtained from all possible samples of a given design and size. Standard errors are used as a measure of the precision expected from a particular sample. If all possible samples were surveyed under similar conditions, intervals of 1.96 standard errors below to 1.96 standard errors above a particular statistic would include the true population parameter being estimated in about 95 percent of the samples. This is a 95 percent confidence interval. For example, the estimated percentage of institutions that had cuts in their operating budget during fiscal year 1991 is 33 percent, and the estimated standard error is 1.5 percent. The 95 percent confidence interval for the statistic extends from [33 - (1.5 times 1.96)] to [33 +

(1.5 times 1.96)], or from 30.1 to 35.9 percent. Estimates of standard errors for this report were computed using a jackknife replication method. Standard errors for all of the estimates are presented in the tables, including table 10, which provides standard errors for the estimates in the figures. All specific statements of comparison made in this report have been tested for statistical significance through chi-square tests and t-tests adjusted for multiple comparisons using the Bonferroni adjustment, and they are significant at the 95 percent confidence level or better.

The survey estimates are also subject to nonsampling errors that can arise because of nonobservation (nonresponse or noncoverage) errors, errors of reporting, and errors made in collection or processing of data. These errors can sometimes bias the data. While general sampling theory can be used in part to determine how to estimate the sampling variability of a statistic, nonsampling errors are not easy to measure. To minimize the potential for nonsampling errors, the questionnaire was pretested with respondents at institutions like those that completed the survey. During the design of the survey and the survey pretest, an effort was made to check for consistency of interpretation of questions and to eliminate ambiguous items. The questionnaire and instructions were extensively reviewed by the National Center for Education Statistics. Manual and machine editing of the questionnaire responses were conducted to check the data for accuracy and consistency. Cases with missing or inconsistent items were recontacted by telephone. Data were keyed with 100 percent verification.

This report was reviewed by the following individuals:

#### Outside NCES

- David Goodwin, Planning and Evaluation Service, Office of the Undersecretary, U.S. Department of Education

#### Inside NCES

- Michael Cohen, Statistical Standards and Methodology Division
- William Fowler, Elementary/Secondary Education Statistics Division
- James Houser, Data Development Division
- Roslyn Korb, Postsecondary Education Statistics Division

For more information about this *Statistics in Brief* or the Postsecondary Education Quick Information System, contact Bernie Greene, Postsecondary Education Statistics Division, National Center for Education Statistics, 555 New Jersey Avenue, NW, Washington, DC 20208-5651, telephone (202) 219-1366.

#### **Endnotes**

- <sup>1</sup>Institutions were not asked to indicate what the "other reasons" were.
- <sup>2</sup>Seven institutions were found to be out of the scope of the survey, primarily because they had closed, leaving 780 eligible institutions.

Table 10.--Standard errors for the figures: 1993

| Item   | Estimate | Standard error |
|--|----------|----------------|
| <b>Figure 1: Percent of institutions indicating how academic offerings had changed</b> |          |                |
| Class size in introductory courses   |          |                |
| Increased . . . . .  | 29       | 1.6            |
| Stayed about the same . . . . .  | 65       | 1.6            |
| Decreased . . . . .  | 6        | 0.9            |
| Class size in advanced courses   |          |                |
| Increased . . . . .  | 19       | 2.3            |
| Stayed about the same . . . . .  | 77       | 2.5            |
| Decreased . . . . .  | 4        | 0.8            |
| Number of courses or sections offered  |          |                |
| Increased . . . . .  | 47       | 1.5            |
| Stayed about the same . . . . .  | 39       | 2.1            |
| Decreased . . . . .  | 14       | 1.5            |
| Number of academic departments   |          |                |
| Increased . . . . .  | 15       | 1.8            |
| Stayed about the same . . . . .  | 77       | 1.9            |
| Decreased . . . . .  | 7        | 1.5            |
| Number of academic programs  |          |                |
| Increased . . . . .  | 33       | 2.3            |
| Stayed about the same . . . . .  | 56       | 2.4            |
| Decreased . . . . .  | 11       | 1.9            |
| <b>Figure 2: Percent of institutions indicating how student services had changed</b>   |          |                |
| Student academic tutoring  |          |                |
| Increased . . . . .  | 39       | 2.1            |
| Stayed about the same . . . . .  | 56       | 2.0            |
| Decreased . . . . .  | 4        | 1.0            |
| Career guidance and job placement services   |          |                |
| Increased . . . . .  | 31       | 2.3            |
| Stayed about the same . . . . .  | 64       | 2.8            |
| Decreased . . . . .  | 6        | 0.9            |
| Student personal counseling services   |          |                |
| Increased . . . . .  | 32       | 1.6            |
| Stayed about the same . . . . .  | 64       | 1.7            |
| Decreased . . . . .  | 5        | 0.8            |
| Student health services  |          |                |
| Increased . . . . .  | 19       | 1.6            |
| Stayed about the same . . . . .  | 75       | 1.7            |
| Decreased . . . . .  | 6        | 0.9            |
| Library operating hours  |          |                |
| Increased . . . . .  | 21       | 1.6            |
| Stayed about the same . . . . .  | 72       | 1.4            |
| Decreased . . . . .  | 7        | 0.8            |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, Survey on Higher Education Finances and Services, 1993.

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