## Statistical Analysis Report <br> March 1996

# Descriptive Summary of 1989-90 Beginning Postsecondary Students: Five Years Later 

## With an Essay on Postsecondary Persistence and Attainment

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U.S. Department of Education Office of Educational Research and Improvement NCES 96-155

## Foreword

This report describes the status after 5 years of the diverse groups of students who first entered postsecondary education during the academic year 1989-90. It describes their economic and demographic characteristics, their educational objectives, the types of institutions they attended, their experiences while enrolled, and their persistence and attainment through the spring of 1994. In addition, this report describes the work experiences of these first-time students, both while enrolled and after they left postsecondary education.

The data for this report were drawn from the second follow-up of the 1990 Beginning Postsecondary Students (BPS) Longitudinal Study conducted in the spring of 1994. The BPS sample was drawn from students who participated in the 1990 National Postsecondary Student Aid Study (NPSAS), a nationally representative cross-sectional survey of graduate and undergraduate students.

The 1990 BPS Study included not only students who enrolled immediately after high school, but also students who delayed their postsecondary studies. Thus, this study is a departure from previous National Center for Education Statistics (NCES) longitudinal studies of high school cohorts, in that it provides information for a steadily growing segment of the postsecondary student population - those who delay their initial entry into postsecondary education. Students in both academic and vocational programs are represented in the survey.

This report begins with an essay that describes the persistence and attainment of the 1989-90 beginning students in postsecondary education after 5 years. The essay explores persistence and attainment rates from several different perspectives and examines the factors associated with lower rates of completion among nontraditional students. Following the essay is a compendium of tables which provide more detail about persistence and attainment, student characteristics, educational financing, employment experiences, marriage, family formation, civic participation, and graduate education.

The estimates presented in this report were produced using the public access BPS:90/94 Data Analysis System (DAS). The DAS is a microcomputer application that allows users to specify and generate their own tables from the BPS data. The DAS produces design-adjusted standard errors necessary for testing the statistical significance of differences shown in the tables. Additional information about the DAS, and how it may be obtained, is included in appendix C of this report.

We hope that the information provided in this report will be useful to a wide range of interested readers, and that the results reported here will encourage others to use the BPS data. We welcome recommendations for improving the format, content and analytic approach to make the subsequent descriptive reports more informative and accessible.

## Acknowledgments

The authors wish to gratefully acknowledge the assistance of staff members of the National Center for Education Statistics in the preparation of this report. We owe special thanks to Larry Bobbitt, Project Officer, and C. Dennis Carroll, Branch Chief, of the Postsecondary Longitudinal Studies Branch for their guidance and help throughout all phases of the report. Robert Burton, Susan Ahmed, Mary Frase, and Marilyn McMillen reviewed the draft of the report in detail and offered many helpful suggestions to improve it.

We also wish to thank the members of the Beginning Postsecondary Students Longitudinal Study technical review panel for their contributions to the planning of the study and the direction of the report. Dan Goldenberg at the Planning and Evaluation Service, U.S. Department of Education, and Carol Fuller at the National Association of Independent Colleges and Universities also reviewed the text and provided helpful comments.

The data collection and analysis of the Beginning Postsecondary Students Longitudinal Study was the joint effort of MPR Associates and Research Triangle Institute, which conducted the data collection and prepared the data files. We wish to thank Daniel Pratt, the project director for the second follow-up at Research Triangle Institute, as well as Joe Simpson and Al Bethke, for their hard work, expertise, and cooperative spirit in all aspects of the project.

We wish to acknowledge the staff at MPR Associates who made this report possible. We thank each of them for their hard work, patience, and humor. The programming of the variables was the responsibility of Ellen Liebman and Vicky Dingler. Phil Pierpont and Ron Moscowitz assisted with data checking and running tables. Andrea Livingston and Karyn Madden edited the various drafts. Dawn Cayabyab, Don Eike, Sanjay Kothari, Laura Mihailoff, Leslie Retallick, Lynn Sally, Mary Sukkestad, and Connie Yin produced the figures, formatted the tables, and typed the text. Simone Figueroa coordinated the production of the report and produced the glossary. The guidance of Susan Choy and Laura Horn was invaluable. We thank these staff members for their efforts and the other staff at MPR for their support.

## Table of Contents

Page
Foreword ..... iii
Acknowledgments ..... iv
List of Tables ..... vii
List of Figures ..... xxii
The Educational Persistence and Attainment of 1989-90 Beginning Postsecondary Students After Five Years
Introduction ..... 1
Overall Student Attainment and Persistence in Postsecondary Education After 5 Years. ..... 2
Student Persistence and Institutional Retention ..... 4
Transfers and Changing Institutions ..... 7
Degree Programs and Objectives. ..... 8
Changing Programs and Degree Objectives ..... 10
Enrollment Continuity ..... 12
Average Enrollment Time ..... 14
Student Characteristics and Persistence According to Sector ..... 15
Nontraditional Students and Risk of Attrition. ..... 18
Persistence Toward the Bachelor's Degree at 4-Year Institutions ..... 22
Summary and Conclusion ..... 28
Table Compendium
Part I: Supplemental Persistence and Attainment Tables
Section 1: Overall Persistence and Attainment of Highest Degree-Total. ..... 31
Section 2: Overall Persistence and Attainment of Highest Degree—By Sectors ..... 38
Section 3: Overall Persistence and Attainment of First Degree ..... 51
Section 4: Overall Persistence and Attainment Including Transfer Status ..... 55
Section 5: Attainment and Retention at the First Institution ..... 59
Section 6: Persistence and Attainment of a Bachelor's Degree ..... 66
Section 7: Persistence and Attainment of an Associate's Degree. ..... 70
Section 8: Persistence and Attainment of a Certificate. ..... 74
Section 9: Persistence and Attainment During the First Spell of Continuous Enrollment-Total ..... 78
Section 10: Persistence and Attainment During the First Spell of Continuous Enrollment-By Institution Type ..... 84
Section 11: Persistence and Attainment During the Longest Spell of Continuous Enrollment ..... 100
Section 12: Persistence and Attainment During the Last Spell of Continuous Enrollment ..... 104
Section 13: Annual Persistence and Attainment of Bachelor's Degree Seekers at 4-Year Institutions ..... 108
Part II: Supplemental Descriptive Summary Tables
Section 14: Student Characteristics. ..... 116
Section 15: Education Financing ..... 130
Section 16: Marriage, Family Formation, Civic Participation, and Further Education Activities. ..... 155
Section 17: Employment Experiences. ..... 177
Appendices
Appendix A: Persistence and Attainment Variables ..... A1
Appendix B: Glossary ..... B1
Appendix C: Technical Notes and Methodology ..... C1

## List of Tables

Essay Tables Page1 Percentage distribution of beginning postsecondary students accordingto highest degree attained as of spring 1994, by level of first institutionattended3
2 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, by level of first institution attended ..... 3
3 Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution attended as of spring 1994, by level of first institution attended ..... 6
4 Percentage distribution of 1989-90 beginning postsecondary studentsaccording to overall persistence and attainment as of spring 1994, including transferstatus, by level of first institution attended.6
5 Percentage distribution of 1989-90 beginning postsecondary students who transferred orattended more than one institution as of spring 1994, bylevel of first institution attended.7
6 Percentage distribution of 1989-90 beginning postsecondary students according to level of last institution attended as of spring 1994, by level of first institution attended ..... 8
7 Percentage distribution of 1989-90 beginning postsecondary studentsaccording to degree working toward at first institution attended, by level offirst institution attended8
8 Percentage distribution of 1989-90 beginning postsecondary studentsaccording to persistence and attainment of highest degree as of spring1994, by degree working toward at first institution and level of firstinstitution attended9
9 Percentage distribution of 1989-90 beginning postsecondary studentsaccording to number of degree types attempted as of spring 1994, bylevel of first institution attended.10
10 Percentage distribution of 1989-90 beginning postsecondary students according to degree working toward at first institution attended and the percentage ever attempting each degree as of spring 1994, by level of first institution attended10
$11 \begin{aligned} & \text { Percentage distribution of 1989-90 beginning postsecondary students } \\ & \text { according to highest degree attained as of spring 1994, by type of } \\ & \text { degree attempted . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . }\end{aligned}$
12 Percentage distribution of 1989-90 beginning postsecondary students according to level of first institution attended, by highest degree attained as of spring 199411

13 Percentage distribution of 1989-90 beginning postsecondary students according to transfer status and enrollment continuity as of spring 1994, by attendance characteristics.12

14 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, by transfer and enrollment continuity.13

15 Average number of months 1989-90 beginning postsecondary students were enrolled through first degree (if any) or last enrollment as of spring 1994 according to overall persistence and attainment, including transfer status, by attendance characteristic\$4

16 Demographic characteristics 1989-90 by beginning postsecondary students, according to level of first institution attended15

17 Percentage distribution of 1989-90 beginning postsecondary students who attained or were still enrolled as of spring 1994 according to level of first institution attended according to level of first institution attended, by selected demographic characteristics

18 Percentage distribution of 1989-90 beginning postsecondary students who attained or were still enrolled as of spring 1994 according to level of first institution attended, by persistence risk factors when they began postsecondary education. . 19

19 Percentage distribution of 1989-90 beginning postsecondary according to number of risk factors when they began postsecondary education, by selected demographic and attendance characteristics21

20 Percentage distribution of 1989-90 beginning postsecondary students seeking a bachelor's degree at 4-year institutions according to persistence and attainment outcomes as of spring 1994, by selected student and enrollment characteristics: 1994 24

21 Percentage distribution of 1989-90 beginning postsecondary students seeking a bachelor's degree at 4-year institutions according to date of bachelor's degree receipt by June 1994, by selected enrollment characteristics . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 26

22 Percentage distribution of persistence track outcomes among 1989-90 beginning postsecondary students seeking a bachelor's degree at 4-year institutions: 1989-94 27

## Table Compendium

## Section 1: Overall Persistence and Attainment of Highest Degree—Total

1.1 Percentage distribution of 1989-90 beginning postsecondary students according
to overall persistence and attainment of highest degree as of spring 1994,
by first institution attended, first degree working toward, and first
degree attained ..... 32
1.2 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of highest degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment ..... 33
1.3 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics ..... 34
1.4 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of highest degree as of spring 1994, by persistence risk factors when they began postsecondary education ..... 35
1.5 Percentage of 1989-90 beginning postsecondary students who ever attended selected types of institutions as of spring 1994, by first institution attended, first degree working toward, and highest degree attained. ..... 36
1.6 Percentage distribution of 1989-90 beginning postsecondary students according to control of transfer institutions as of spring 1994, by first institution attended, first degree working toward, and highest degree attained. ..... 37

## Section 2: Overall Persistence and Attainment of Highest Degree—By Sectors

2.1a Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by control of first institution attended, first degree working toward, and first degree attained.39
2.1b Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by control of first institution attended, first degree working toward, and first degree attained. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 40
2.1c Percentage distribution of 1989-90 beginning postsecondary students who began in less-than-2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by control of first institution attended, first degree working toward, and first degree attained.
2.2a Percentage distribution of 1989-90 beginning postsecondary students who began in 4 -year institutions according to overall persistence and attainment of highest degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment ..... 42
2.2b Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment ..... 43
2.2c Percentage distribution of 1989-90 beginning postsecondary students who began in less- than-2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment ..... 44
2.3a Percentage distribution of 1989-90 beginning postsecondary students who began in 4 -year institutions according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics ..... 45
2.3b Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics ..... 46
2.3c Percentage distribution of 1989-90 beginning postsecondary students who began in less- than-2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics ..... 47
2.4a Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by persistence risk factors when they began at first institution ..... 48
2.4b Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by persistence risk factors when they began at first institution ..... 49
2.4c Percentage distribution of 1989-90 beginning postsecondary students who began in less- than-2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by persistence risk factors when they began at first institution ..... 50
Table Compendium Page
Section 3: Overall Persistence and Attainment of First Degree-Total3.1 Percentage distribution of 1989-90 beginning postsecondary students according to77overall persistence and attainment of first degree as of spring 1994, by first institutionattended, first degree working toward, and highest degree attained52
3.2 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of first degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment ..... 53
3.3 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of first degree as of spring 1994, by demographic characteristics ..... 54
Section 4: Overall Persistence and Attainment Including Transfer Status
4.1 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, including transfer status, by first institution attended, first degree working toward, and first degree attained ..... 56
4.2 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, including transfer status, by attendance patterns through first degree attained (if any) or last enrollment ..... 57
4.3 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, including transfer status, by demographic characteristics ..... 58
Section 5: Attainment and Retention at the First Institution
5.1 Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by first institution attended, first degree working toward, and highest degree attained ..... 60
5.2 Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment ..... 61
5.3 Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by demographic characteristics ..... 62
5.4 Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at first institution as of spring 1994, by persistence risk factors when they began at first institution ..... 63
5.5 Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by social, academic, and work experiences and measure of satisfaction during the 1989-90 academic year
5.6 Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by education financing during the 1989-90 academic year.65

## Section 6: Persistence and Attainment of a Bachelor's Degree

6.1 Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a bachelor's degree according to persistence and attainment of a bachelor's degree as of spring 1994, by institution where they began working toward the degree and type of degree attained67
6.2 Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a bachelor's degree according to persistence and attainment of a bachelor's degree as of spring 1994, by demographic characteristics
6.3 Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a bachelor's degree according to persistence and attainment of a bachelor's degree as of spring 1994, by persistence risk factors when they began working toward the9degree

## Section 7: Persistence and Attainment of an Associate's Degree

7.1 Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward an associate's degree according to persistence and attainment of an associate's degree as of spring 1994, by institution where they began working toward the degree and the type of degree attained 71
7.2 Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward an associate's degree according to persistence and attainment of an associate's degree as of spring 1994, by demographic characteristics . . . . . . . . . . . . . . . . . . 72
7.3 Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward an associate's degree according to persistence and attainment of an associate's degree as of spring 1994, by persistence risk factors when they began working toward the degree
Table CompendiumPage
Section 8: Persistence and Attainment of a Certificate
8.1 Percentage distribution of 1989-90 beginning postsecondary students who were ever workingtoward a certificate according to persistence and attainment of a certificate as of spring1994, by institution where they began working toward the degree and type of degreeattained75
8.2 Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a certificate according to persistence and attainment of a certificate as of spring 1994, by demographic characteristics. ..... 76
8.3 Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a certificate according to persistence and attainment of a certificate as of spring 1994, by persistence risk factors when they began working toward the degree. . . 77
Section 9: Persistence and Attainment During the First Spell of Continuous Enrollment-Total
9.1 Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained ..... 79
9.2 Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by demographic characteristics ..... 80
9.3 Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by persistence risk factors when they began first spell. ..... 81
9.4 Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by social, academic, and work experiences and measures of satisfaction during the 1989-90 academic year ..... 82
9.5 Percentage distribution of 1989-90 beginning postsecondary students according topersistence and attainment during the first spell of continuous enrollment, by educationfinancing during the 1989-90 academic year.83

## Section 10: Persistence and Attainment During the First Spell of Continuous Enrollment-By Institution Type

10.1a Percentage distribution of 1989-90 beginning postsecondary students who began in 4 -year public institutions according to persistence and attainment during the first spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained
10.1b Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained. 86
10.1c Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained
10.2a Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by demographic characteristics 88
10.2b Percentage distribution of 1989-90 beginning postsecondary students who began in 4 -year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by demographic characteristics.

89
10.2c Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by demographic characteristics
10.3a Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by persistence risk factors when they began first spell. . . 91
10.3b Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by persistence risk factors when they began first spell

92
10.3c Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by persistence risk factors when they began first spell. . . 93
10.4a Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by social, academic, and work experiences and measures of satisfaction during the 1989-90 academic year . . . . . . . . . . . . . . . . . . . . . . . . . . . 94
10.4b Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by social, academic, and work experiences and measures of satisfaction during the 1989-90 academic year. 95
10.4c Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by social, academic, and work experiences and measures of satisfaction during the 1989-90 academic year. . . . . . . . . . . . . . . . . . . . . . . . . . . 96
10.5a Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by education financing during the 1989-90 academic yea 97
10.5b Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by education financing during the 1989-90 academic year
10.5c Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by education financing during the 1989-90 acade99ic year

## Section 11: Persistence and Attainment During the Longest Spell of Continuous Enrollment-Total

11.1 Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the longest spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained 101
11.2 Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the longest spell of continuous enrollment, by demographic characteristics 102
11.3 Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the longest spell of continuous enrollment, by persistence risk factors when they began longest spell

## Section 12: Persistence and Attainment During the Last Spell of Continuous Enrollment-Total

12.1 Percentage distribution of 1989-90 beginning postsecondary students according to
persistence and attainment during the last spell of continuous enrollment, by institution
attended, intensity of enrollment, degree working toward, and type of degree atthonfed

12.2 Percentage distribution of 1989-90 beginning postsecondary students according to
persistence and attainment during the last spell of continuous enrollment, by demographic
characteristics
12.3 Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the last spell of continuous enrollment, by persistence risk factors when they began last spell ..... 107

## Section 13: Annual Persistence and Attainment of Bachelor's Degree Seekers at 4-year Institutions

13.1 Percentage distribution of annual persistence and attainment outcomes among 1989-90 beginning postsecondary bachelor's degree seekers in 4-year institutions: 1989-909
13.2 Percentage distribution of annual persistence and attainment outcomes among persisting bachelor's degree seekers in 4-year institutions: 1990-91 ..... 110
13.3 Percentage distribution of annual persistence and attainment outcomes among persisting bachelor's degree seekers in 4-year institutions: 1991-92 ..... 111
13.4 Percentage distribution of annual persistence and attainment outcomes among persisting bachelor's degree seekers in 4-year institutions: 1992-93 ..... 112
13.5 Percentage distribution of annual persistence and attainment outcomes among persisting bachelor's degree seekers in 4-year institutions: 1993-94 ..... 113
13.6 Percentage distribution of persistence and attainment outcomes as of spring 1994, among bachelor's degree seekers in 4-year institutions who left the persistence track-19G4

## Section 14: Student Characteristics

14.1 Percentage distribution of 1989-90 beginning postsecondary students according to gender, by demographic characteristics. ..... 119

## Table Compendium

Page
14.2 Percentage distribution of 1989-90 beginning postsecondary students according to age when began at first institution, by demographic characteristics

120
14.3 Percentage distribution of 1989-90 beginning postsecondary students according to
socioeconomic status, by demographic characteristics . . . . . . . . . . . . . . . . . . . 121
14.4 Percentage distribution of 1989-90 beginning postsecondary students according to race-ethnicity of student, by demographic characteristics

122
14.5 Percentage distribution of 1989-90 beginning postsecondary students according to marital status when began at first institution, by demographic characteristics. . . . . . . . . 123
14.6 Percentage distribution of 1989-90 beginning postsecondary students according to
parental education, by demographic characteristics . . . . . . . . . . . . . . . . . . . 124
14.7 Percentage distribution of 1989-90 beginning postsecondary students according to dependency status in 1989-90, by demographic characteristics.

125
14.8 Percentage of 1989-90 beginning postsecondary students with component persistence risk factors when they began at first institution, by demographic characteristics. . . . 126
14.9 Percentage distribution of 1989-90 beginning postsecondary students according to age when began at first institution, by first institution attended, first degree working toward, and highest degree attained.
14.10 Percentage distribution of 1989-90 beginning postsecondary students according to level of first institution, by selected demographic and institutional characteristiz\&
14.11 Percentage distribution of 1989-90 beginning postsecondary students according to control of first institution, by selected demographic and institutional characteristics129

## Section 15: Education Financing

15.1 Percentage of 1989-90 beginning postsecondary students ever receiving financial aid as of spring 1994 according to the type of aid received, by selected demographic and institutional characteristics133
15.2 Percentage of 1989-90 beginning postsecondary students ever receiving assistance from family or using personal savings as of spring 1994 according to the type of assistance received, by selected demographic and institutional characteristics.
15.3 Percentage distribution of 1989-90 beginning postsecondary students according to level and control of first institution, by education financing during the 1989-90 acadelỉỉc year
15.4 Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, by types of financial aid and family assistance used during postsecondary education138
15.5 Percentage distribution of 1989-90 beginning postsecondary students who attained a degree or were still enrolled in 1994 according to financial aid receipt as of spring 1994 and level of first institution, by selected demographic characteristics 139
15.6 Percentage of 1989-90 beginning postsecondary students who ever borrowed from any source as of spring 1994 according to level and control of last institution, by selected demographic and institutional characteristics
15.7 Average amount borrowed by 1989-90 beginning postsecondary students who ever borrowed from any source as of spring 1994 according to level and control of last institution, by selected demographic and institutional characteristics

143
15.8a Percentage of 1989-90 beginning postsecondary students who owe on postsecondary loans as of spring 1994, according to overall persistence and attainment, as of spring 1994, by selected demographic and institutional characteristics 145
15.8b Average amount owed on postsecondary loans as of spring 1994 by 1989-90 beginning postsecondary students according to overall persistence and attainment, as of spring 1994, by selected demographic and institutional characteristics 147
15.9a Percentage of 1989-90 beginning postsecondary students who borrowed for postsecondary education according to loan repayment arrangements as of spring 1994, by selected demographic and institutional characteristics 149
15.9b Percentage distribution of 1989-90 beginning postsecondary students who borrowed for postsecondary education and are currently repaying loans according to average monthly loan payment as of spring 1994, by selected demographic and institutional characteristics

## Section 16: Marriage, Family Formation, Civic Participation, and Further Education Activities

16.1a Percentage distribution of 1989-90 beginning postsecondary students according to marital status in spring 1994, by selected demographic and institutional characteristics 158
Table Compendium
Page
16.1b Percentage distribution of ever married 1989-90 beginning postsecondary students as of spring 1994 according to timing of marriage, by selected demographic and institutional
characteristics . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 160

16.2b Percentage distribution of 1989-90 beginning postsecondary students who had children in spring 1994 according to the timing of first child, by selected demographic and institutional characteristics

164

16.3 Percentage of 1989-90 beginning postsecondary students participating in
volunteer/community service activities, and type of volunteer/community service
organization involved with within the past 2 years, by selected demographic and
institutional characteristics
166
16.4a Percentage distribution of 1989-90 beginning postsecondary students according to current voter registration status in spring 1994, by selected demographic and institutional characteristics ..... 169
16.4b Percentage of 1989-90 beginning postsecondary students who recently voted, by selected demographic and institutional characteristics ..... 171
16.5 Percentage of 1989-90 beginning postsecondary students who had attained a bachelor's degree by June 1993 according to graduate school application and attendance, as of spring 1994, by selected demographic and institutional characteristics173
16.6 Percentage of 1989-90 beginning postsecondary students who took licensing exams and percentage of exam takers according to the type of licensing exam taken as of spring 1994, by selected demographic and institutional characteristics ..... 174

## Section 17: Employment Experiences

17.1 Percentage of 1989-90 beginning postsecondary students who were employed while enrolled at some time during postsecondary education, by selected demographic and institutional characteristics 180
17.2 Percentage distribution of 1989-90 beginning postsecondary students according to their primary occupation in 1993, by selected demographic and institutional characteri\&ifics
17.3 Percentage of 1989-90 beginning postsecondary students reporting satisfaction with aspects of their most recent job, by selected demographic and institutional characteristics 184
Table Compendium Page
17.4 Percentage of 1989-90 beginning postsecondary students who were ever unemployed and average duration of unemployment as of spring 1994, by selected demographic and institutional characteristics

186
17.5 Percentage of 1989-90 beginning postsecondary students who were ever unemployed during calendar years 1990 through 1993, by selected demographic and institutional characteristics 188
17.6 Percentage distribution of 1989-90 beginning postsecondary students according to the number of months after leaving postsecondary education before obtaining first principal job, by selected demographic and institutional characteristics190
17.7 Percentage of 1989-90 beginning postsecondary students according to actions taken to obtain their most recent principal job as of spring 1994, by selected demographic and institutional characteristics192
17.8 Percentage of 1989-90 beginning postsecondary students according to relationship between their most recent principal job and their postsecondary education, by selected demographic and institutional characteristics

## List of Figures

## Figure

Page
1 Institutional retention and overall persistence rates of 1989-90 beginning postsecondary students after 5 years.

2 Percentage of 1989-90 beginning postsecondary students who attained or were still enrolled as of spring 1994 according to level of first institution, by age when began postsecondary education. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 17

3 Persistence, degree attainment, and nondegree departure among bachelor's degree seekers in 4-year institutions: 1989-90 through 1993-94. . . . . . . . . . . . . . . . . . . . . . . . . . 23

# The Educational Persistence and Attainment of 1989-90 Beginning Postsecondary Students After Five Years 

## Introduction

During the 1989-90 academic year, approximately 2.6 million students enrolled in postsecondary education for the first time. A sample of these students was selected for the Beginning Postsecondary Students Longitudinal Study. The sampled students were interviewed three times: at the end of their first year in 1990, in the spring of 1992, and in the spring of 1994. This essay describes the educational experiences of these first-time beginners over the 5 -year period, focusing on their persistence in postsecondary education and their attainment of any degrees or certificates at the baccalaureate level or below.

There are many different ways of measuring persistence and attainmeñ subject will be approached from four different perspectives: 1) overall persistence in postsecondary education; 2) institutional retention; 3) persistence toward degree objectives; and 4) persistence toward the bachelor's degree at 4 -year institutions. Each of these approaches results in different levels of persistence and attainment rates.

The first perspective presented is this essay examines the overall experience of the beginning students in postsecondary education as a whole. It looks at whether the students attained any type of degree anywhere or were still enrolled anywhere without a degree in 1994, no matter where they started or whether they changed institutions or degree objectives. It addresses the issue of student persistence in the broadest sense by asking what proportion of beginning students had completed or were still attempting to complete a postsecondary program within the 5 years after they had started.

The second approach examines the experience of the students only in relation to the first institution attended. It addresses the issue of institutional retention by asking what proportion of beginners remained at the same institution to complete a degree or certificate. Students who do not remain there may either leave postsecondary education permanently or transfer to some other institution before completing a degree program. In either case the students have not been retained at the first institution, but by transferring elsewhere they continue to persist in postsecondary education. Because many students do transfer before attaining a degree, institutional rates of retention tend to understate levels of student persistence.

A third approach is to examine persistence and attainment in relation to a particular degree objective, whether the student is working toward a bachelor's degree, an associate's degree, or a vocational certificate. This perspective is useful when the level of the degree that the students are

[^0]seeking is not the highest undergraduate degree offered at the institution that they are attending at the time. This is especially common at community colleges, where students may be taking courses towarc either a bachelor's degree or a vocational certificate rather than an associate's degree.

The fourth approach presented in this essay is to focus specifically on the students with a bachelor's degree objective who are beginning at 4 -year institutions and to trace their progress towards the bachelor's degree on a year-by-year basis. This perspective is useful in determining what proportion of beginning students at 4 -year colleges follow a path of continuous enrollment towards the bachelor's degree and how long it takes them to achieve their objective.

## Overall Student Attainment and Persistence in Postsecondary Education After 5 Years

One of the most important distinctions in studying persistence and attainment is the highest undergraduate degree offered at the institution in which the student enrolls, because the time spent at the institution reflects the normal duration of the degree programs. Less-than-2-year institutions only offer certificates, usually in vocational programs that can be completed in less than one year. Two-year institutions offer associate's degrees that can typically be completed in two years of fulltime study, but often offer shorter certificate programs as well. Four-year institutions primarily offer bachelor's degrees, but some also offer shorter associate's and certificate programs. In this report, the institutions are categorized into the 4-year, 2-year, and less-than-2-year sectors according to their highest level of undergraduate degree offeredPostbaccalaureate enrollment and degrees are excluded from this analysis.

Among the first-time beginners in 1989-90, almost half started postsecondary education at institutions in the 2 -year sector, 42 percent in the 4 -year sector, and less than 10 percent at institutions in the less-than-2-year sector. The distribution of students by the control of the institution attended varied within these sectors. Nearly 90 percent of those in the 2 -year sector attended public community colleges; three-quarters of those in the less-than-2-year sector attended private, for-profit institutions; and in the 4-year sector, two-thirds attended public, and one-third private, not-for-profit colleges and universities.

Tables 1 and 2 show the distribution of the highest undergraduate degree attained, as well as students' enrollment status in the spring of 1994 in relation to the level of institution where the first-time beginners entered postsecondary education. The outcomes shown, however, did not necessarily take place at the institution or sector where they began. Rather they are the persistence and attainment rates for first-time beginners in postsecondary education overall without any restrictions: these rates include students who changed institutions, changed degree programs, or were awarded more than one undergraduate degree at any time during the 5 years.

[^1]Table 1—Percentage distribution of 1989-90 beginning postsecondary students according to highest degree attained as of spring 1994, by level of first institution attended

|  | Highest degree attained |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Certificate | Associate's <br> degree | Bachelor's <br> degree | Total <br> attained | No degree <br> attained |
| Total | 12.9 | 11.2 | 25.8 | 50.0 | 50.0 |
|  |  |  |  |  |  |
| Level of first institution |  |  |  |  |  |
| 4-year | 2.9 | 4.2 | 53.3 | 60.4 | 39.6 |
| 2-year | 13.8 | 18.6 | 6.1 | 38.4 | 61.6 |
| Less-than-2-year | 58.3 | 2.8 | 0.9 | 62.0 | 38.0 |

NOTE: The second follow-up interviews began in late March 1994; students who expected to graduate by June were classified as attainers.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

By the spring of 1994, half of the first-time beginners in 1989-90 had attained a certificate or degree of some kind: 26 percent had attained a bachelor's degree; 11 percent had attained an associate's degree as their highest degree; and 13 percent had attained a certificate. Of those who began at 4 -year institutions, a majority ( 53 percent) had completed a bachelor's degree, but some (about 7 percent) had attained a lower credential. Of those who began at less-than-2-year institutions, which primarily offer short-term vocational programs, 58 percent had attained a certificate but some (about 4 percent) went on to earn a higher degree elsewhere. The highest degrees attained by those who had started at 2-year institutions were distributed as follows: 14 percent had attained certificates, 19 percent associate's degrees, and 6 percent bachelor's degrees. Unlike the 4year and less-than-2-year institutional sectors, however, a majority of students who began in a 2-year institution ( 62 percent) had not attained any degree by the spring of 1994.

Table 2—Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, by level of first institution attended

|  | Attained or still enrolled |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Attained <br> degree | No degree, <br> enrolled | Total | No degree, <br> not <br> enrolled |
| Total | 50.0 | 13.3 | 63.2 |  |
| Level of first institution |  |  |  | 36.8 |
| 4-year | 60.4 | 15.2 | 75.6 |  |
| 2-year | 38.4 | 13.6 | 52.0 | 24.4 |
| Less-than-2-year | 62.0 | 2.5 | 64.5 | 48.0 |

NOTE: The second follow-up interviews began in late March 1994; students who expected to graduate by June were classified as attainers.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Table 2 shows that in addition to the 50 percent of first-time beginners who had attained a certificate or degree by 1994, another 13 percent were still enrolled without a degree at some postsecondary institution. The sum of the proportion of students who attained and the proportion still enrolled in any postsecondary institution indicates that nearly two-thirds ( 63 percent) of the 1989-90 beginning postsecondary students persisted in the broadest possible sense. About half ( 52 percent) of those who had started at a 2-year institution had either attained a credential or were still enrolled, as well as about two-thirds ( 65 percent) of those who had started at less-than-2-year institutions and three-quarters ( 76 percent) of those who had started at 4-year colleges or universities.

## Student Persistence and Institutional Retention

Most of the studies of persistence and attainment in postsecondary education are based on institutional data that focus on the issue of student retention at that institutionThe longitudinal nature of the Beginning Postsecondary Students Longitudinal Study, however, allows for the measuremen of persistence both within and across institutions.

Figure 1—Institutional retention and overall persistence rates of 1989-90 beginning postsecondary students after 5 years

Attainment and retention at the first institution


Overall persistence in postsecondary education

*Postsecondary education
NOTE: Transfers only include those who transferred before attaining a first degree.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

[^2]The difference between institutional rates of retention and overall persistence among firsttime beginners in postsecondary education is substantial, especially in the 2 -year and 4 -year sectors. From the perspective of the individual students after 5 years, 50 percent had attained a postsecondary degree or certificate; 13 percent were still enrolled without a degree; and 37 percent were no longer enrolled and had not earned a degree (table 2). From the perspective of the first institution attended, however, the results are very different (table 3). After 5 years, only 37 percent had attained a degree at the first institution attended, and an additional 6 percent were still enrolled there without a degree.

The difference in the two perspectives is illustrated in figure 1 . Whereas nearly two-thirds of the students who began postsecondary education for the first time in the 1989-90 academic year had persisted or attained an award within 5 years, less than half had done so at the institution where they began. The overall persistence rate of first-time beginners anywhere in postsecondary education is 20 percentage points higher than their persistence rate at the first institution attended.

The difference between institutional retention rates and overall student persistence rates is explained by what happens to those who transfer before attaining a degree. From the institutional perspective shown in table 3, only those 43 percent who attained or were still enrolled at that institution have persisted; the other 57 percent have left the institution before completing a program. About half of those who left the institution (29 percent), however, had transferred.

In the 4 -year sector, table 3 shows that 47 percent of the first-time beginners had attained a degree at the first institution within 5 years, and another 9 percent were still attending the college or university where they had first enrolled-for an overall retention rate of 56 percent at the first institution. Those who were no longer enrolled at their initial 4-year institution were more likely to have transferred elsewhere ( 28 percent) than to have left postsecondary education ( 16 percent).

Table 4 shows what happened to those beginners who transferred from a 4-year institution: 13 percent of the beginners attained a degree elsewhere; 7 percent were still enrolled elsewhere in 1994; and 8 percent had left without a degree from a transfer institution. The sum of the "attained" and "enrolled" columns results in the totals shown earlier in table 2: 76 percent of those who had started at a 4 -year institution in 1989-90 had either completed a program or were still enrolled in a program 5 years later (although these beginners were not all in bachelor's degree programs).

There was also a substantial difference between institutional retention and overall persistence and attainment rates for those who started in the 2-year sector. For example, 24 percent who had first enrolled in a 2-year institution had attained a certificate or degree at that institution within 5 years, but an additional 14 percent had attained a degree elsewhere after leaving (table 4). The retention rate at the first 2-year institution attended was only 30 percent (table 3), but 52 percent of those who began postsecondary education in 2-year institutions had either attained a degree or were still enrolled somewhere 5 years later (table 2).

Table 3-Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution attended as of spring 1994, by level of first institution attended

|  | Attainment and retention at the first institution |  |  | Not retained at the first institution |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Attained degree | No degree, enrolled | Total retained | No degree, left PSE* | No degree, transferred elsewhere | Total not retained |
| Total | 36.9 | 6.4 | 43.3 | 27.9 | 28.8 | 56.7 |
| Level of first institution |  |  |  |  |  |  |
| 4 -year | 47.0 | 8.6 | 55.5 | 16.4 | 28.1 | 44.5 |
| 2-year | 24.3 | 5.7 | 30.0 | 37.7 | 32.3 | 69.9 |
| Less-than-2-year | 56.7 | 0 | 56.7 | 29.8 | 13.5 | 43.3 |

*Postsecondary education.
NOTE: Transfers only include those who transferred before attaining a degree at the first institution.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Table 4-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, including transfer status, by level of first institution attended

|  | Did not transfer |  |  | Transferred from first institution |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Attained degree at first institution | No degree, enrolled at first institution | No degree, left PSE* from first institution | Attained degree elsewhere | No degree, enrolled elsewhere | No degree, left PSE* after transfer |
| Total | 36.9 | 6.4 | 27.9 | 13.0 | 6.8 | 8.9 |
| Level of first institution |  |  |  |  |  |  |
| 4 -year | 47.0 | 8.6 | 16.4 | 13.4 | 6.6 | 8.0 |
| 2-year | 24.3 | 5.7 | 37.7 | 14.1 | 7.9 | 10.3 |
| Less-than-2-year | 56.7 | 0 | 29.8 | 5.3 | 2.5 | 5.7 |

*Postsecondary education.
NOTE: Transfers only include those who transferred before attaining a degree at the first institution.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

## Transfers and Changing Institutions

The difference between the retention rate at the first institution attended and the persistence of students anywhere in postsecondary education over the 5-year period under study reflects the frequency of student transfers. Overall, 29 percent of the beginning postsecondary students left the first institution attended without attaining a degree and then enrolled in a different institution (table 5). Including those who enrolled in a different institution after they had attained their first degree (about 5 percent), the overall transfer rate was 35 percent.

Students were classified as transfers only if they changed institutions permanently without returning to the original institution. This excludes students who enrolled at courses in two institutions simultaneously, attended summer school at a different institution, or were enrolled temporarily at a second institution and then returned to the first one. When these are included with transfers, then nearly half ( 45 percent) of all the 1989-90 beginning students attended more than one postsecondary institution during the 5 -year period.

Table 5—Percentage of 1989-90 beginning postsecondary students who transferred or attended more than one institution as of spring 1994, by level of first institution attended

|  | Transferred <br> before <br> first degree | Transferred <br> before or after <br> first degree | Attended <br> more than <br> one institution |
| :--- | :---: | :---: | :---: |
| Total | 28.8 | 34.8 | 45.4 |
| Level of first institution |  |  |  |
| 4-year | 28.1 | 28.3 | 47.1 |
| 2-year | 32.3 | 42.5 | 47.4 |
| Less-than-2-year | 13.5 | 24.5 | 26.4 |

*Includes all transfers as well as simultaneous enrollment at two institutions, enrollment in summer school, and temporary enrollment followed by a return to the first institution.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Transfers could take place within or between sectors, and students could transfer more than once. Student transfers between sectors are shown in table 6 by comparing the levels of the first and the last institution attended during the 5 years. Of those who started at 4 -year institutions, 10 percent were last enrolled in the 2 -year sector. Although 5 percent of those who began at 2-year institutions were last enrolled in less-than-2-year institutions, the movement from 2-year institutions was primarily upwards: 20 percent of those who started in the 2-year sector were last enrolled in a 4 -year institution. Nevertheless, the majority of beginning students did not change sectors.

[^3]Table 6-Percentage distribution of 1989-90 beginning postsecondary students according to level of last institution attended as of spring 1994, by level of first institution attended

|  | Level of last institution attended |  |  |
| :--- | :---: | :---: | :---: |
|  | 4-year | 2-year | Less-than-2-year |
| Total | 48.4 | 41.4 | 10.2 |
|  |  |  |  |
| Level of first institution | 89.2 | 9.7 | 1.0 |
| 4-year | 19.6 | 75.1 | 5.2 |
| 2-year | 5.8 | 11.7 | 82.5 |
| Less-than-2-year |  |  |  |

*Includes students who attended only one institution.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

## Degree Programs and Objectives

Since 2-year institutions typically offer both associate's degrees and certificates, and some 4 -year institutions offer both of these credentials in addition to the baccalaureate degree, students were asked toward which degree or certificate they were working at each institution attendedThe purpose of the question was to identify the students' current degree program and objective. For the first institution attended (table 7), 51 percent of the first-time beginners responded that they were working toward a bachelor's degree; 30 percent were working toward an associate's degree; 16 percent were working toward a certificate; and 4 percent were not working toward any degree.

Table 7—Percentage distribution of 1989-90 beginning postsecondary students according to degree working toward at the first institution attended, by level of first institution attended

|  | Degree working toward at first institution |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's <br> degree | Bachelor's <br> degree |
| Total | 3.8 | 15.7 | 29.7 | 50.8 |
| Level of first institution |  |  |  |  |
| 4-year | 1.4 | 1.2 | 6.4 | 91.1 |
| 2-year | 6.5 | 14.5 | 54.8 | 24.1 |
| Less-than-2-year | 1.2 | 93.8 | 3.3 | 1.6 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Of those starting at 4-year institutions, more than 90 percent said that they were working toward a bachelor's degree, and of those starting at a less-than-2-year institution, 94 percent said that they were working toward a certificate. Therefore, in these sectors, there was a relatively close relationship between degree objective and highest undergraduate degree offered. In the 2-year sector, however, only about half of the students ( 55 percent) said that they were working toward an associate's

[^4]degree, while one-quarter ( 24 percent) reported that they were working toward a bachelor's degree, an objective that could only be achieved by transferring to a 4 -year institution.

In table 8, the persistence and attainment of students who started working toward a bachelor's degree in 2-year institutions are compared with students working toward an associate's degree in 2year institutions and with those working toward a bachelor's degree in 4-year institutions.

Table 8—Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment of highest degree as of spring 1994, by degree working toward at first institution and level of first institution attended

|  | Highest degree attained |  |  |  | No degree, enrolled | No degree, not enrolled |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Certificate | Associate's degree | Bachelor's degree | Total |  |  |
| Degree working toward at first institution |  |  |  |  |  |  |
| Associate's degree | 11.3 | 22.9 | 8.9 | 43.2 | 12.1 | 44.7 |
| Bachelor's degree | 3.8 | 7.2 | 45.8 | 56.8 | 17.0 | 26.1 |
| Level of first institution |  |  |  |  |  |  |
| 2-year | 13.8 | 18.6 | 6.1 | 38.4 | 13.6 | 48.0 |
| 4-year | 2.9 | 4.2 | 53.3 | 60.4 | 15.2 | 24.4 |
| Degree working toward and level of first institution |  |  |  |  |  |  |
| Associate's degree at 2-year institution | 11.4 | 23.7 | 7.5 | 42.6 | 12.1 | 45.2 |
| Bachelor's degree at 2-year institution | 8.1 | 21.0 | 7.9 | 36.9 | 22.5 | 40.6 |
| Bachelor's degree at 4-year institution | 2.4 | 3.1 | 57.1 | 62.6 | 15.6 | 21.8 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Those who said that they were working toward a bachelor's degree at 2-year institutions were about as likely to earn an associate's degree ( 21 percent) as those who said that they were only working toward an associate's degree ( 24 percent). The bachelor's degree attainment rate was similar for both groups ( 8 percent). Bachelor's degree seekers beginning in a 4 -year institution were much more likely to attain a bachelor's degree within 5 years ( 57 percent) than those beginning in a 2 -year institution. Those seeking a bachelor's degree at 2-year institutions make up nearly one-quarter ( 23 percent) of all students with a bachelor's degree objective ${ }^{2}$, and their lower rates of attainment are reflected in the aggregate bachelor's degree attainment rate for all students with a bachelor's degree objective (46 percent).

[^5]
## Changing Programs and Degree Objectives

During the 5 -year period, about one-fifth ( 22 percent) of the first-time beginners changed their degree objective. Table 9 shows the number of degrees attempted by the first-time beginners in relation to the first institution attended. Of those who started in the 2-year sector, almost one-third (31 percent) reported attempting more than one type of degree.

Table 9—Percentage distribution of 1989-90 beginning postsecondary students according to number of degree types attempted as of spring 1994, by level of first institution attended

|  | Number of degrees attempted |  |  |
| :--- | :---: | :---: | :---: |
|  | None | One | Two or more |
| Total | 2.6 | 75.9 | 21.5 |
| Level of first institution |  |  |  |
| 4-year | 0.9 | 88.4 | 10.7 |
| 2-year | 4.5 | 64.2 | 31.3 |
| Less-than-2-year | 0.6 | 79.4 | 20.0 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

An alternative approach to measuring persistence and attainment is to measure these rates in relation to particular degree objectives. Using this approach, the students who changed objectives and attempted a second degree are counted more than once because they will be included in both categories of degree objectives. The proportion of beginning postsecondary students who ever attempted a specific type of degree will be greater than the proportion who first attempted such a degree. For example, 16 percent of the first-time beginners initially said that they were working toward a certificate, but over the 5 -year period, 25 percent were working toward a certificate at one time or another (table 10 ). Similarly, 30 percent initially had an associate's degree as an objective, but 39 percent were working toward an associate's degree at some time. Another 51 percent were working toward a bachelor's degree initially, but 58 percent had a bachelor's degree objective at some time during the 5 yedr's.

Table 10-Percentage distribution of 1989-90 beginning postsecondary students according to the degree working toward at first institution attended and the percentage ever attempting each degree as of spring 1994, by level of first institution attended

|  | Degree working toward at first institution |  |  | Degree attemptedat any time |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Certificate | Associate's degree | Bachelor's degree | Certificate | Associate's degree | Bachelor's degree |
| Total | 15.7 | 29.7 | 50.8 | 25.0 | 38.5 | 58.0 |
| Level of first institution |  |  |  |  |  |  |
| 4 -year | 1.2 | 6.4 | 91.1 | 5.9 | 13.7 | 93.3 |
| 2-year | 14.5 | 54.8 | 24.1 | 29.1 | 64.3 | 36.6 |
| Less-than-2-year | 93.8 | 3.3 | 1.6 | 95.8 | 10.8 | 6.6 |

NOTE: Degrees attempted at any time exceeds 100 percent because students can be included in more than one category.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

[^6]Those who had more than one degree objective were more likely to attain a degree or certificate than those who had only one (table 11). This includes students who earned one degree or certificate and then pursued a higher one, as well as those who attained a degree that was lower than the original objective.

Table 11—Percentage distribution of 1989-90 beginning postsecondary students according to highest degree attained as of spring 1994, by type of degree attempted

|  | Highest degree attained |  |  |  | No degree <br> attained |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Certificate | Associate's <br> degree | Bachelor's <br> degree | Total | 50.0 |
| Total | 12.9 | 11.2 | 25.8 | 50.0 |  |
| Type of degree attempted |  |  |  |  |  |
| Certificate only | 54.0 | $\dagger$ | $\dagger$ | 54.0 | 46.0 |
| Associate's degree only | $\dagger$ | 25.1 | $\dagger$ | 25.1 | 74.9 |
| Bachelor's degree only | $\dagger$ | $\dagger$ | 54.1 | 54.1 | 45.9 |
| More than one degree | 23.1 | 27.9 | 16.6 | 67.6 | 32.4 |

$\dagger$ Not applicable.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Table 12 displays the first institution attended according to the type of highest degree attained by the beginning students. It illustrates how attainers of each type of degree began their postsecondary education. Nine percent of those whose highest degree was a certificate and 16 percent of those who attained an associate's degree began their education at a 4-year institution. Twelve percent of those who attained a bachelor's degree had started at a 2-year institution and transferred. Overall, however, more than one-quarter ( 28 percent) of those who earned bachelor's degrees had enrolled for courses in a 2 -year public community college at some time during the five-year periold.

Table 12—Percentage distribution of 1989-90 beginning postsecondary students according to level of first institution attended, by highest degree attained as of spring 1994

|  | Level of first institution |  |  |
| :--- | :---: | :---: | :---: |
|  | 4-year | 2-year | Less-than-2-year |
|  |  |  |  |
| Total | 42.2 | 49.2 | 8.6 |
| Highest degree attained |  |  |  |
| None | 33.2 | 60.3 | 6.5 |
| Certificate | 9.4 | 52.0 | 38.6 |
| Associate's degree | 15.7 | 82.2 | 2.1 |
| Bachelor's degree | 88.0 | 11.7 | 0.3 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

[^7]
## Enrollment Continuity

Continuous enrollment is defined in this report as maintaining enrollment in postsecondary education without an interruption of more than 4 months (which allows for the normal summer break). Enrollment continuity is considered separately from transfer behavior. Students may transfer with or without breaking enrollment continuity by more than 4 months. Those who stop attending an institution for more than 4 months and then return to the same institution at some later time are often called "stopouts."

Table 13 shows that a considerable proportion of students either broke enrollment continuity, transferred, or did both. Fourteen percent were not continuously enrolled, but returned to the same institution; 13 percent transferred to another institution without a break in continuity; and 15 percent both interrupted enrollment continuity and transferred.

Table 13—Percentage distribution of 1989-90 beginning postsecondary students according to transfer status and enrollment continuity as of spring 1994, by attendance characteristics

|  | Did not <br> transfer, <br> continuously <br> enrolled | Did not <br> transfer, not <br> continuously <br> enrolled | Transferred, <br> continuously <br> enrolled | Transferred, <br> not continuously <br> enrolled |
| :--- | :---: | :---: | :---: | :---: |
| Total | 57.2 | 14.1 | 13.4 | 15.4 |
| Level of first institution |  |  |  |  |
| 4-year | 58.3 | 13.6 | 14.9 | 13.2 |
| 2-year | 51.5 | 16.3 | 13.8 | 18.5 |
| Less-than-2-year | 83.7 | 2.8 | 4.1 | 9.5 |
| Degree working toward at first institution |  |  |  |  |
| None | 43.5 | 18.0 | 13.5 | 24.9 |
| Certificate | 77.4 | 8.3 | 4.3 | 9.9 |
| Associate's degree | 54.1 | 15.0 | 12.7 | 18.2 |
| Bachelor's degree | 53.3 | 15.5 | 16.7 | 14.5 |
| First type of degree attained |  |  |  |  |
| None | 50.5 | 18.1 | 11.4 | 20.1 |
| Certificate | 55.4 | 5.4 | 16.7 | 22.5 |
| Associate's degree | 62.4 | 12.9 | 14.1 | 10.5 |
| Bachelor's degree | 69.7 | 11.0 | 15.3 | 4.0 |

NOTE: Continuously enrolled is defined as enrolled without a break of more than 4 months before first degree (if any) or last enrollment. All column categories include students who left without a degree.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

The result of these four different paths through postsecondary education relative to overall persistence and attainment is shown in table 14. In terms of attainment of any degree within 5 years, no difference was found between transferring and not transferring if there was no break in enrollment continuity (56-57 percent attained). In fact, those who transferred without a break in continuity were the least likely to leave postsecondary education ( 21 percent left without a degree compared with approximately 40 percent for the other categories). Combining the attained and still-enrolled categories, those who transferred without a break in continuity had a persistence rate of nearly 80 percent, compared with about 60 percent for all the others.

Table 14—Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment status as of spring 1994, by transfer and enrollment continuity

|  | Attained or still enrolled |  |  | No degree, not enrolled |
| :---: | :---: | :---: | :---: | :---: |
|  | Attained degree | No degree, enrolled | Total |  |
| Total | 50.0 | 13.3 | 63.2 | 36.8 |
| Transfer status and enrollment continuity |  |  |  |  |
| Did not transfer, continuous | 55.8 | 5.4 | 61.2 | 38.8 |
| Did not transfer, not continuous | 35.6 | 23.6 | 59.2 | 40.8 |
| Transferred, continuous | 57.4 | 21.4 | 78.8 | 21.1 |
| Transferred, not continuous | 34.7 | 25.9 | 60.6 | 39.4 |

NOTE: Continuously enrolled is defined as enrolled without a break of more than 4 months before first degree (if any) or last enrollment.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Breaking enrollment continuity was associated with a lower rate of attainment for both those who transferred and those who did not. Only about one-third those who broke continuity had attained a degree by 1994, as compared to more than half of those who had no break in continuity. This is to be expected because breaks in enrollment continuity will obviously increase the time required to complete a program.

## Average Enrollment Time

How long beginning students were enrolled relative to their persistence and attainment outcomes is shown in table 15. Enrolled time only includes the number of months that the student is actually in attendance, and does not include periods (such as the summer months) when the student is not enrolled. Those who had attained a bachelor's degree at their first institution were enrolled for an average of 41 months-that is, about 5 months longer than the typical 36 months in 4 academic years. Those who had attained an associate's degree at their first institution averaged 27 months of enrollment, or about 3 academic years, whereas those who had attained a certificate were enrolled for an average of 13 months.

Table 15-Average number of months 1989-90 beginning postsecondary students were enrolled through first degree (if any) or last enrollment as of spring 1994 according to overall persistence and attainment, including transfer status, by attendance characteristics

|  | Did not transfer |  |  | Transferred from first institution |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Attained degree at first institution | No degree, enrolled at first institution | No degree, left PSE* from first institution | Attained degree elsewhere | No degree enrolled elsewhere | No degree, left PSE* after transfer | Total number of months enrolled |
| Total | 31.0 | 41.3 | 13.6 | 29.8 | 39.3 | 22.5 | 26.4 |
| Level of first institution |  |  |  |  |  |  |  |
| 4 -year | 40.1 | 45.4 | 21.1 | 35.9 | 40.7 | 25.3 | 35.7 |
| 2-year | 23.9 | 36.1 | 11.6 | 25.5 | 39.2 | 21.4 | 21.2 |
| Less-than-2-year | 11.0 | - | 7.3 | - | - | 14.8 | 10.8 |
| Degree working toward at first institution |  |  |  |  |  |  |  |
| None | - | - | 10.9 | - | - | - | 17.8 |
| Certificate | 13.1 | - | 8.3 | 18.9 | - | 14.6 | 12.4 |
| Associate's degree | 25.8 | 36.0 | 12.5 | 24.8 | 40.0 | 20.5 | 22.0 |
| Bachelor's degree | 39.2 | 43.8 | 21.0 | 35.0 | 42.4 | 24.6 | 34.9 |
| First type of degree attained |  |  |  |  |  |  |  |
| None | $\dagger$ | 41.3 | 13.6 | $\dagger$ | 39.3 | 22.5 | 22.2 |
| Certificate | 12.6 | $\dagger$ | $\dagger$ | 18.7 | $\dagger$ | $\dagger$ | 15.0 |
| Associate's degree | 27.3 | $\dagger$ | $\dagger$ | 30.9 | $\dagger$ | $\dagger$ | 28.2 |
| Bachelor's degree | 40.9 | $\dagger$ | $\dagger$ | 42.0 | $\dagger$ | $\dagger$ | 41.1 |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
*Postsecondary education
${ }^{1}$ Transfers only include those who transferred before attaining a degree at the first institution.
NOTE: For attainers, the table shows the average number of months enrolled up to attainment of the first degree only. Enrolled time only includes the number of months that the student is actually in attendance, and does not include periods (such as the summer months) when the student is not enrolled.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

## Student Characteristics and Persistence According to Sector

Are the differences in the persistence and attainment rates related to the differences in the characteristics of students who begin at various types of institutions? A comparison of the demographic characteristics of the beginning students according to their first institution attended is displayed in table 16. The profile of students entering 4-year institutions in 1989-90 reflects the characteristics of traditional college freshmen: they are predominantly 18 years old or younger ( 84 percent) and are dependent on their parents ( 92 percent). Of those entering 2-year institutions, which are primarily public community colleges, only about half were 18 years old or younger ( 48 percent) and two-thirds were dependent on their parents ( 65 percent). Among the students beginning postsecondary education at less-than-2-year institutions, which are primarily private, for-profit institutions offering vocational certificate programs, only one-quarter were 18 years old or younger, and less than half ( 40 percent) were dependent on their parents.

Table 16-Demographic characteristics of 1989-90 beginning postsecondary students according to level of first institution attended

|  | Total | Level of first institution |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 4-year | 2-year | Less-than-2-year |
| Total | 100.0 | 100.0 | 100.0 | 100.0 |
| Gender |  |  |  |  |
| Male | 46.0 | 47.2 | 47.6 | 36.6 |
| Female54.0 | 52.8 | 52.4 | 63.4 |  |
| Age when began at first institution |  |  |  |  |
| 18 years or younger | 61.2 | 83.6 | 48.1 | 24.7 |
| 19 years | 12.1 | 8.9 | 14.4 | 15.4 |
| 20-29 years | 17.2 | 4.9 | 23.8 | 39.8 |
| 30 years or older | 9.5 | 2.6 | 13.7 | 20.1 |
| Dependency status in 1989-90 |  |  |  |  |
| Independent | 26.0 | 8.5 | 34.8 | 59.6 |
| Dependent | 74.0 | 91.5 | 65.2 | 40.4 |
| Marital status when began at first institution |  |  |  |  |
| Not married | 86.7 | 96.5 | 80.6 | 72.4 |
| Married | 12.1 | 3.3 | 17.9 | 23.0 |
| Separated | 1.2 | 0.2 | 1.5 | 4.5 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 14.7 | 5.6 | 18.7 | 35.0 |
| Middle quartiles | 45.7 | 37.0 | 52.0 | 51.1 |
| Highest quartile | 39.7 | 57.5 | 29.3 | 13.9 |
| Race-ethnicity |  |  |  |  |
| American Indian/Alaskan Native | 0.7 | 0.4 | 0.7 | 1.4 |
| Asian/Pacific Islander | 4.0 | 4.5 | 3.5 | 1.8 |
| Black, non-Hispanic | 8.8 | 7.8 | 9.2 | 15.3 |
| Hispanic | 7.6 | 4.5 | 10.9 | 8.1 |
| White, non-Hispanic | 78.8 | 82.7 | 75.8 | 73.4 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

In terms of age and dependency, therefore, the population of beginning students was predominantly traditional at 4-year institutions, less traditional at 2-year institutions, and predominantly nontraditional at less-than-2-year institutions. A similar pattern across the three sectors is reflected in the composition of students by socioeconomic status (SES), a composite measure derived from information about family income, parental education levels and occupation, and household possessions. More than half ( 58 percent) of the students beginning at 4 -year institutions were in the highest SES quartile, as compared with 30 percent of those beginning at 2-year institutions and only 14 percent of those beginning at less-than-2-year institutions. Both Hispanic and black, non-Hispanic postsecondary students were less likely to begin at 4 -year institutions than were Asian/Pacific Islander and white, non-Hispanic students. ${ }^{5}$

To what extent are persistence and attainment rates related to these differences in the demographic characteristics of the beginning students by sector? Table 17 shows the percentage of 1989-90 beginning students who were either still enrolled or had attained a degree or certificate as of spring 1994, both overall and within each institutional sector. Overall, as age at entry into postsecondary education increased, persistence and attainment decreased. For example, nearly three-quarters ( 72 percent) of those who began at age 18 or younger had attained a credential or were still enrolled through spring 1994, as compared with less than half of those who began in their 20s or later.

Table 17—Percentage of 1989-90 beginning postsecondary students who attained or were still enrolled as of spring 1994 according to level of first institution attended, by selected demographic characteristics

|  | Percentage who attained or were still enrolled in spring 1994 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Began at 4 -year institution | Began at 2-year institution | Began at less-than-2-year institution |
| Total | 63.2 | 75.6 | 52.0 | 64.5 |
| Gender |  |  |  |  |
| Male | 61.6 | 73.7 | 50.8 | 62.4 |
| Female64.6 | 77.3 | 53.2 | 65.7 |  |
| Age when began at first institution |  |  |  |  |
| 18 years or younger | 72.4 | 79.7 | 61.5 | 68.0 |
| 19 years | 56.4 | 64.5 | 50.5 | 65.0 |
| 20-29 years | 47.9 | 47.5 | 43.2 | 63.8 |
| 30 years or older | 40.2 | 34.6 | 35.7 | 61.2 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 46.9 | 50.9 | 41.6 | 57.9 |
| Middle quartiles | 59.8 | 70.8 | 51.7 | 65.9 |
| Highest quartile | 73.1 | 81.0 | 59.3 | 75.8 |
| Race-ethnicity |  |  |  |  |
| American Indian/Alaskan Native | 72.0 | - | - | - |
| Asian/Pacific Islander | 74.4 | 86.1 | 60.7 | - |
| Black, non-Hispanic | 55.3 | 72.1 | 46.5 | 43.3 |
| Hispanic | 63.7 | 71.9 | 58.7 | 70.0 |
| White non-Hispanic | 63.5 | 75.6 | 51.3 | 67.5 |

-Sample size too small for a reliable estimate.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

[^8]The difference in the persistence and attainment rates by beginning age and sector of first institution is illustrated in figure 2 . At the less-than-2-year institutions, where the majority of beginning students were older than 18 , age at entry did not make much difference: 68 percent of those who began at age 18 or younger had attained a certificate or were still enrolled 5 years later, as well as 61 percent of those age 30 or older. For those beginning at 4 -year institutions, a persistence and attainment decline occurs as early as age 19 . Nearly 80 percent of those who had entered 4 -year institutions at age 18 or younger had attained a degree or were still enrolled after 5 years, as compared with 65 percent of students who entered at age $1^{16}$.

Figure 2—Percentage of 1989-90 beginning postsecondary students who attained or were still enrolled as of spring 1994 according to level of first institution, by age when began postsecondary education


SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

[^9]Persistence and attainment of beginning students decreased at lower levels of socioeconomic status. This was true overall and within each sector. Although few statistically significant differences were found among racial-ethnic groups overall, they did appear within racial-ethnic groups according to the sector in which students started. As shown in table 17, at 4-year institutions, the persistence and attainment rate of Asian/Pacific Islander students ( 86 percent) was higher than that of all other racial-ethnic groups. At less-than-2-year institutions, beginning black, non-Hispanic students were significantly less likely than Hispanic or white, non-Hispanic students to persist or attain a credential ( 43 percent versus 70 percent and 68 percent, respectively). Black, non-Hispanic students who began at 4-year institutions, however, had the same overall persistence and attainment rates ( 72 percent) as the white, non-Hispanic and Hispanic students who began there. Whereas both nonHispanic black and white students beginning in the 2-year sector had lower persistence and attainment rates than those who began in the 4 -year sector, among Hispanic students the difference was not statistically significant.

## Nontraditional Students and Risk of Attrition

Previous research suggests that many factors detrimental to postsecondary persistence and attainment are associated with students who did not follow a traditional path through postsecondary education. ${ }^{17}$ These include such attributes as not receiving a regular high school diploma, delaying entry into postsecondary education after high school, being financially independent of parents, having children, being a single parent, attending school part time, and working full time while enrolled in postsecondary education. In a recent study of undergraduates enrolled in 1992-93, a risk index was developed by summing the number of these attributes associated with each studefft.This risk index was shown to be negatively associated with 1-year persistence rates in postsecondary education.

Following this model, a persistence risk index consisting of the sum of the seven risk factors was assigned to each of the 1989-90 beginning postsecondary students as part of this analysisThe results, which are shown in table 18, are consistent with the previous findings. As the number of risk factors increases, the overall likelihood of having attained a degree or of still being enrolled 5 years after beginning postsecondary education decreases. More than three-quarters ( 78 percent) of the first-time beginners with no risk factors when they began postsecondary education had attained a credential or were still enrolled as of spring 1994, compared with less than half ( 43 percent) of those with three or more risk factors.

Table 18 also shows that lower persistence and attainment rates were associated with each of the seven component risk factors. This was not always true when examined within the three institutional sectors, however. Although the presence of nearly all individual risk factors was associated with

[^10]lower persistence and attainment in both the 2-year and the 4 -year sectors, neither the number of risk factors nor any individual component was significantly related to the persistence and attainment of students who began at less-than-2-year institutions.

Table 18-Percentage of 1989-90 beginning postsecondary students who attained or were still enrolled as of spring 1994 according to level of first institution attended, by persistence risk factors when they began postsecondary education

|  | Percentage who attained or were still enrolled |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | $\begin{gathered} \text { Began at } \\ \text { 4-year } \\ \text { institution } \end{gathered}$ | $\begin{gathered} \text { Began at } \\ 2 \text {-year } \\ \text { institution } \end{gathered}$ | Began at less-than-2-year institution |
| Total | 63.2 | 75.6 | 52.0 | 64.5 |
| Number of risk factors when began at first institution |  |  |  |  |
| None | 77.5 | 81.7 | 69.3 | 75.7 |
| One | 63.7 | 74.2 | 54.3 | 51.3 |
| Two | 53.8 | 51.3 | 50.3 | 72.0 |
| Three or more | 42.5 | 42.4 | 38.0 | 61.0 |
| Attendance status when began at first institution |  |  |  |  |
| Full time | 71.3 | 78.8 | 61.7 | 67.9 |
| Part time | 44.3 | 48.1 | 41.8 | 65.6 |
| Dependency status when began at first institution |  |  |  |  |
| Dependent | 73.0 | 79.6 | 63.2 | 71.0 |
| Independent | 48.2 | 56.5 | 42.1 | 63.0 |
| Delayed postsecondary enrollment |  |  |  |  |
| Did not delay | 72.1 | 79.6 | 61.5 | 71.6 |
| Delayed | 44.9 | 45.3 | 40.0 | 61.5 |
| Number of children when began at first institution |  |  |  |  |
| None | 66.4 | 76.9 | 54.7 | 68.1 |
| One or more | 45.8 | 39.5 | 42.0 | 59.1 |
| Single parent when began at first institution |  |  |  |  |
| Not a single parent | 65.0 | 76.8 | 53.5 | 66.8 |
| Single parent | 46.9 | 37.5 | 43.4 | 56.3 |
| Worked full time while enrolled at first institution |  |  |  |  |
| Did not work full time | 67.6 | 77.8 | 56.8 | 66.1 |
| Worked full time | 52.8 | 67.9 | 43.3 | 63.7 |
| Type of high school diploma |  |  |  |  |
| High school diploma | 64.8 | 76.0 | 54.1 | 65.5 |
| GED, cert. of completion, no diploma | 39.8 | 47.5 | 29.0 | 60.4 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Moreover, beginning students with two or more of these risk factors were more likely to persist and attain at less-than-2-year institutions than in either of the other two sectors. Students with high

[^11]risk of attrition were, therefore, more successful at completing the short vocational certificate programs offered at less-than-2-year institutions than they were at persisting in the longer programs.

Among students with two or more risk factors, persistence and attainment rates did not differ according to whether they began at 4 -year or at 2-year institutions (about 50 percent with two risk factors and about 40 percent with three factors). Students with only one or with no risk factors at all, however, were more likely to persist and attain a credential if they started at a 4-year institution than a 2-year institution. For such low-risk students, factors other than those measured by the seven risk factors, such as institutional selectivity, academic preparation, and individual motivation, may explain the differences in persistence and attainment.

The overall difference in the 5-year persistence and attainment rates between those starting at 4 -year institutions ( 76 percent) and those starting at 2 -year institutions ( 52 percent) reflects the substantial difference in the proportion of beginning students with risk factors in the two sectors (table 19). Two-thirds ( 64 percent) of those entering 4 -year institutions had no risk factors at all, as compared with about one-quarter ( 28 percent) of those entering 2-year institutions.

How is the presence of a high number of risk factors related to the demographic characteristics of beginning students? As shown in table 19, the number of risk factors was inversely related to the SES of the beginning students. There were few significant differences in the number of risk factors among racial-ethnic groups, except that Hispanic students were less likely to begin with no risk factors than white, non-Hispanic students.

[^12]Table 19—Percentage distribution of 1989-90 beginning postsecondary students according to number of risk factors when they began postsecondary education, by selected demographic and attendance characteristics

|  | Number of risk factors in 1989-90 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | None | One | Two | Three or more |
| Total | 42.2 | 22.4 | 10.4 | 25.0 |
| Level of first institution |  |  |  |  |
| 4 -year 63.5 | 24.3 | 5.8 | 6.5 |  |
| 2-year 28.2 | 22.2 | 13.1 | 36.6 |  |
| Less-than-2-year | 18.7 | 13.1 | 18.4 | 49.8 |
| Degree working toward at first institution |  |  |  |  |
| None | 17.2 | 14.2 | 20.6 | 47.9 |
| Certificate | 16.6 | 15.0 | 14.7 | 53.6 |
| Associate's degree | 31.1 | 23.7 | 11.7 | 33.5 |
| Bachelor's degree | 59.8 | 24.3 | 7.4 | 8.4 |
| Age when began at first institution |  |  |  |  |
| 18 years or younger | 62.8 | 27.7 | 6.9 | 2.7 |
| 19 years | 27.9 | 33.4 | 21.8 | 16.9 |
| 20-29 years | 2.5 | 7.9 | 17.0 | 72.5 |
| 30 years or older | 0 | 1.2 | 6.5 | 92.3 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 10.1 | 11.7 | 12.9 | 65.0 |
| Middle quartiles | 36.8 | 21.2 | 12.5 | 29.4 |
| Highest quartile | 60.1 | 27.8 | 7.1 | 5.1 |
| Race-ethnicity |  |  |  |  |
| American Indian/Alaskan Native | 43.0 | 6.7 | 7.8 | 42.5 |
| Asian/Pacific Islander | 49.3 | 21.4 | 7.4 | 22.0 |
| Black, non-Hispanic | 41.1 | 19.5 | 11.3 | 28.0 |
| Hispanic | 27.9 | 28.2 | 15.2 | 28.7 |
| White, non-Hispanic | 43.5 | 22.3 | 10.0 | 24.3 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

The number of risk factors was directly related to the student's age at entry into postsecondary education. Because many of the risk factors, such as having children and being independent of parents, are correlated with age, it is not surprising that more than 70 percent of those who started postsecondary education in their 20 s or older began with three or more risk factors. Although only 3 percent of students age 18 or younger had three or more risk factors, students who entered postsecondary education at age 19 , only 1 year later, were more than five times as likely ( 17 percent) to have three or more risk factors. This is consistent with results discussed earlier, showing that 19-year-old beginners at 4-year institutions were significantly less likely to persist than those who began at age 18 or younger.

The direct relationship of age at entry into postsecondary education and the number of risk factors is consistent with previous research that suggests that the environmental variables and external constraints that interfere with persistence and attainment increase with student ageOlder nontraditional students who began postsecondary education at either 2-year or 4-year institutions were much less likely to have attained a degree or still be enrolled after 5 years than traditional 18-year-

[^13]old beginners. One important exception to this pattern, however, is the finding that neither age at entry nor the number of risk factors is associated with persistence and attainment at less-than-2-year institutions. The shorter time commitment required to complete a vocational certificate at less-than2 -year institutions, ${ }^{23}$ an average of 11 months, appears to mitigate the impact of the risk factors on persistence and attainment.

## Persistence Toward the Bachelor's Degree at 4-Year Institutions

The previous discussion of persistence and attainment by sector has assumed a very broad definition of these terms to include students who were still enrolled anywhere in postsecondary education and those who had attained any degree or certificate during the 5 years under consideration, no matter where they started. This broad definition of persistence in postsecondary education allows for breaks in enrollment continuity, changes in degree objectives, and transfers to lower level sectors.

A more restricted definition specifically designed for analyzing the persistence of beginning students working toward a bachelor's degree at 4 -year institutions has been used in previous research. ${ }^{24}$ In this approach, persistence is defined as uninterrupted year-to-year enrollment continuity within the 4 -year sector toward a single degree objective, the bachelor's degree. Students who meet these conditions are considered to be on the "persistence track," following an enrollment path that results in a high likelihood of bachelor's degree attainment. Students leave the track if they interrupt enrollment continuity in any number of ways: "stopping out" by leaving and then returning to the same institution, transferring after an enrollment gap, transferring to a less-than-4-year institution, or leaving postsecondary education without reenrolling anywhere.

An analysis using the persistence-track approach involves tracing the persistence and attainment status of students from year to year, by examining the following outcomes for each year: degree attainment, persistence through the year and into the next year at the same or another 4-year institution, and interruptions in persistence through stopouts and downward or delayed transfers. Figure 3 illustrates the flow of persisters along the persistence track from 1989-90 through the 1993-94 academic year. The numbers in parentheses trace the flow of a cohort of 1,000 beginning students through the entire model. For example, tracing the flow of persisters down the central axis of the figure reveals that 837 out of 1,000 students persisted into the second year, 758 through the second year and into the third, and 602 through the third year into the fourth. The number and percentage of those who leave the persistence track each year are shown in the boxes on the left side of the figure.

As figure 3 illustrates, year-to-year persistence rates for those who stayed on the persistence track in the previous year were very high: 84 percent persisted into their second year, and 91 percent of those persisted on to year three. In the third year, students begin to complete bachelor's degrees; therefore, the bachelor's degree attainment rates must be added to the percentage of those who persist into the next year.

[^14]Figure 3-Persistence, degree attainment, and nondegree departure among bachelor's degree seekers in 4-year institutions: 1989-90 through 1993-94

| Academic | Nondegree <br> year | departure |
| :---: | :---: | :---: |$\quad$ Persistence $\quad$| Degree |
| :---: |
| attainment |


${ }^{1}$ Students enrolled in a 4 -year institution who indicated they were working toward a bachelor's degree represented by a standard cohort of 1,000.
${ }^{2}$ Includes only associate's degree completers who did not continue working toward a bachelor's degree in the 4 -year sector.
NOTE: Details may not sum to totals due to rounding.
SOURCE: Compendium tables 13.1-13.5.

The combined rates of persistence and bachelor's degree attainment for those on the persistence track were 85 percent for the third year ( 80 percent persisted into the next year and 5 percent attained in the third year); 91 percent for the fourth year ( 51 percent persisted and 40 percent attained); and 93 percent in the fifth year ( 26 percent persisted and 67 percent attained). In the first year, 16 percent of the initial cohort left the persistence track; in the second year, 9 percent of those who had persisted left the track; and in the third year, 16 percent of the persisters left the track. In the fourth year, 8 percent of persisters left and in the fifth year, only 6 percent left.

The difference in the attainment of those who stayed on the persistence track and those who did not is displayed in table 20. Overall, 57 percent of bachelor's degree seekers who began at 4 -year institutions in 1989-90 had completed the degree by spring 1994, and another 15 percent indicated that they were still enrolled at a 4 -year institution. Students who left the persistence track were much less likely to have completed the degree within 5 years ( 21 percent) than the persisters who had a pattern of continuous enrollment in the 4 -year sector ( 84 percent).

Table 20-Percentage distribution of 1989-90 beginning students seeking a bachelor's degree at 4-year institutions according to persistence and attainment outcomes as of spring 1994, by selected student and enrollment characteristics

|  | Attained bachelor's or still enrolled at 4 -year institution in 1994 |  |  | Not enrolled at 4-year institution |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Attained bachelor's | No degree, enrolled | Attained associate's | Attained certificate | $\begin{gathered} \text { No } \\ \text { degree } \end{gathered}$ |
| Total | 71.9 | 57.0 | 14.9 | 2.3 | 2.2 | 23.6 |
| Departure from the persistence track |  |  |  |  |  |  |
| Did not leave | 98.0 | 83.8 | 14.2 | 1.2 | 0.8 | $\dagger$ |
| Left persistence track | 36.3 | 20.6 | 15.7 | 3.9 | 4.0 | 55.8 |
| Type of departure from the persistence track |  |  |  |  |  |  |
| Did not leave | 98.0 | 83.8 | 14.2 | 1.2 | 0.8 | $\dagger$ |
| Downward or delayed transfer | 42.3 | 22.0 | 20.3 | 9.9 | 9.4 | 38.4 |
| Stopout | 64.4 | 38.8 | 25.5 | 0.5 | 1.4 | 33.8 |
| Timing of departure from the persistence track |  |  |  |  |  |  |
| Did not leave | 98.0 | 83.8 | 14.2 | 1.2 | 0.8 | $\dagger$ |
| 1989-90 departure | 25.2 | 12.8 | 12.4 | 9.4 | 7.4 | 58.0 |
| 1990-91 departure | 38.7 | 23.4 | 15.4 | 0.8 | 3.7 | 56.8 |
| 1991-92 departure | 48.3 | 31.7 | 16.7 | 0.5 | 1.5 | 49.7 |
| 1992-93 departure | 50.4 | 21.3 | 29.1 | 0.2 | 0.9 | 48.5 |
| Control of first institution |  |  |  |  |  |  |
| Public 68.8 | 50.5 | 18.4 | 2.6 | 2.5 | 26.0 |  |
| Private, not-for-profit | 78.1 | 70.4 | 7.7 | 1.8 | 1.4 | 18.7 |

Table 20—Percentage distribution of 1989-90 beginning students seeking a bachelor's degree at 4-year institutions according to persistence and attainment outcomes as of spring 1994, by selected student and enrollment characteristics-Continued

|  | Attained bachelor's or still enrolled at <br> 4-year institution in 1994 |  |  | Not enrolled at 4-year institution |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Attained bachelor's | No degree, enrolled | Attained associate's | Attained certificate | No <br> degree |
| Intensity of enrollment when began at first institution |  |  |  |  |  |  |
| Full time | 74.3 | 59.9 | 14.4 | 2.3 | 2.0 | 21.4 |
| Part time | 42.9 | 24.3 | 18.6 | 7.2 | 4.0 | 46.0 |
| Gender |  |  |  |  |  |  |
| Male | 71.1 | 53.2 | 17.8 | 2.0 | 1.9 | 25.1 |
| Female72.6 | 60.5 | 12.1 | 2.7 | 2.4 | 22.3 |  |
| Age when began at first institution |  |  |  |  |  |  |
| 18 years or younger | 75.0 | 60.2 | 14.8 | 2.3 | 1.9 | 20.8 |
| 19 years | 58.4 | 43.0 | 15.4 | 1.8 | 3.9 | 35.9 |
| 20-29 years | 45.2 | 29.3 | 15.9 | 4.2 | 4.6 | 46.1 |
| 30 years or older | 34.5 | 19.7 | 14.8 | 3.3 | 1.5 | 60.7 |
| Race-ethnicity |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - |
| Asian/Pacific Islander | 83.3 | 65.7 | 17.6 | 0 | 1.0 | 15.7 |
| Black, non-Hispanic | 64.9 | 43.8 | 21.1 | 2.0 | 3.5 | 29.6 |
| Hispanic | 69.9 | 49.2 | 20.7 | 1.2 | 1.2 | 27.7 |
| White, non-Hispanic | 72.1 | 58.3 | 13.8 | 2.6 | 2.1 | 23.2 |
| Grade point average in 1989-90 |  |  |  |  |  |  |
| Less than C's | 42.0 | 29.5 | 12.5 | 5.1 | 5.1 | 47.8 |
| Mostly C's | 65.9 | 44.1 | 21.8 | 0.5 | 3.2 | 30.4 |
| B's and C's | 76.0 | 57.9 | 18.2 | 3.5 | 1.2 | 19.2 |
| Mostly B's | 81.3 | 68.4 | 12.9 | 1.2 | 1.8 | 15.8 |
| A's and B's | 85.8 | 73.4 | 12.5 | 0.5 | 0.5 | 13.1 |
| Mostly A's | 85.3 | 76.0 | 9.3 | 1.4 | 1.4 | 11.9 |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Table 21 presents information on the timing of bachelor's degree completion. Overall, 31 percent of bachelor's degree seekers who began at 4 -year institutions attained the degree within 4 years, and another 26 percent attained it during their fifth year. As would be expected, students with continuous enrollment in the 4 -year sector were far more likely than students with interrupted persistence to have completed the degree within 4 years ( 48 percent compared with 8 percent) or in the fifth year ( 36 percent compared with 13 percent). Although persistence in the 4 -year sector is highly correlated with completion of a bachelor's degree, it should be noted that about one out of five ( 21 percent) of the students who stopped out, transferred after a break in enrollment, or transferred to a less-than-4-year institution also returned and completed their initial bachelor's degree objective within 5 years, and another 16 percent were enrolled in the 4-year sector in 1994 (figure 3).

Table 21—Percentage distribution of 1989-90 beginning students seeking a bachelor's degree at 4-year institutions according to date of bachelor's degree receipt by June 1994, by selected enrollment characteristics

|  | Date of bachelor's degree receipt |  |  |
| :---: | :---: | :---: | :---: |
|  | No degree | By June 1993 | July 1993June 1994 |
| Total | 42.9 | 31.3 | 25.8 |
| Departure from the persistence track Did not leave Left persistence track | $\begin{aligned} & 16.2 \\ & 79.4 \end{aligned}$ | $\begin{array}{r} 48.3 \\ 8.1 \end{array}$ | $\begin{aligned} & 35.6 \\ & 12.5 \end{aligned}$ |
| Type of departure from the persistence track Did not leave Downward or delayed transfer Stopout | $\begin{aligned} & 16.2 \\ & 78.0 \\ & 61.2 \end{aligned}$ | $\begin{array}{r} 48.3 \\ 8.6 \\ 15.4 \end{array}$ | $\begin{aligned} & 35.6 \\ & 13.4 \\ & 23.4 \end{aligned}$ |
| Timing of departure from the persistence track Did not leave 1989-90 departure 1990-91 departure 1991-92 departure 1992-93 departure | $\begin{aligned} & 16.2 \\ & 87.3 \\ & 76.7 \\ & 68.3 \\ & 78.7 \end{aligned}$ | $\begin{array}{r} 48.3 \\ 7.4 \\ 9.1 \\ 10.8 \\ 5.6 \end{array}$ | $\begin{array}{r} 35.6 \\ 5.3 \\ 14.3 \\ 20.9 \\ 15.7 \end{array}$ |
| Control of first institution Public <br> Private, not-for-profit | $\begin{aligned} & 49.5 \\ & 29.6 \end{aligned}$ | 21.6 51.2 | 29.0 19.3 |
| Attendance status when began at first institution <br> Full-time <br> Part-time | $\begin{aligned} & 40.0 \\ & 75.7 \end{aligned}$ | 33.2 11.6 | $\begin{aligned} & 26.8 \\ & 12.7 \end{aligned}$ |
| Grade point average in 1989-90 Less than C's <br> Mostly C's <br> B's and C's <br> Mostly B's <br> A's and B's <br> Mostly A's | $\begin{aligned} & 70.3 \\ & 55.9 \\ & 42.1 \\ & 31.6 \\ & 26.6 \\ & 23.8 \\ & \hline \end{aligned}$ | $\begin{aligned} & 11.0 \\ & 18.1 \\ & 27.8 \\ & 40.5 \\ & 42.2 \\ & 54.7 \end{aligned}$ | $\begin{aligned} & 18.7 \\ & 26.0 \\ & 30.2 \\ & 27.9 \\ & 31.1 \\ & 21.5 \end{aligned}$ |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

The propensity to leave the persistence track toward the bachelor's degree was related to the age of entry into a 4 -year institution. As is shown in table 22, older students were less likely than younger students to maintain persistence, and the decline began at age 19 . Of students who began college at age $1 \varepsilon$ or younger, 60 percent persisted without interruption, contrasted with only 45 percent of those who began at age 19, 38 percent of those who began in their 20s, and 23 percent of those who began at age 30 or late Black, non-Hispanic students starting at 4-year institutions were less likely to stay on the persistence track towards the bachelor's degree than either Asian/Pacific Islander or white, non-Hispanic students. Other differences between racial-ethnic groups were not statistically significant.

[^15]Table 22—Percentage distribution of persistence track outcomes among 1989-90 beginning students seeking a bachelor's degree at 4-year institutions: 1989-94

|  | Did not leave persistence track | First type of departure from the persistence track |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Downward or delayed transfer | Stopout | Left without return |
| Total | 57.7 | 16.1 | 13.3 | 12.9 |
| Gender |  |  |  |  |
| Male | 55.2 | 16.7 | 15.0 | 13.1 |
| Female60.0 | 15.5 | 11.8 | 12.8 |  |
| Age when began at first institution |  |  |  |  |
| 18 years or younger | 60.4 | 16.1 | 12.8 | 10.7 |
| 19 years | 45.2 | 17.6 | 17.1 | 20.1 |
| 20-29 years | 37.7 | 11.5 | 16.6 | 34.2 |
| 30 years or older | 22.5 | 20.1 | 10.3 | 47.1 |
| Attendance status when began at first institution |  |  |  |  |
| Full time | 61.1 | 14.8 | 12.7 | 11.4 |
| Part time | 25.2 | 28.5 | 17.4 | 28.9 |
| Grade point average in 1989-90 |  |  |  |  |
| Less than C's | 30.5 | 26.9 | 20.3 | 22.3 |
| Mostly C's | 50.8 | 16.1 | 18.1 | 15.0 |
| B's and C's | 60.5 | 17.2 | 11.9 | 10.3 |
| Mostly B's | 67.7 | 11.0 | 10.3 | 11.0 |
| A's and B's | 71.9 | 10.0 | 9.9 | 8.1 |
| Mostly A's | 74.3 | 7.0 | 10.4 | 8.4 |
| Race-ethnicity |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - |
| Asian/Pacific Islander | 62.7 | 9.7 | 16.8 | 10.8 |
| Black, non-Hispanic | 45.4 | 20.8 | 16.7 | 17.1 |
| Hispanic | 53.1 | 20.1 | 13.2 | 13.7 |
| White, non-Hispanic | 58.9 | 15.6 | 12.8 | 12.6 |
| Control of first institution |  |  |  |  |
| Public 54.6 | 17.3 | 14.1 | 14.0 |  |
| Private, not-for-profit | 63.9 | 13.7 | 11.7 | 10.7 |

-Too few cases for a reliable estimate.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

The propensity to leave the persistence track was also related to how and where students entered postsecondary education, and to their academic performance. Of bachelor's degree seekers who began the postsecondary education at a public 4 -year institution, 55 percent maintained persistence, as compared with 64 percent among those who began at private, not-for-profit institutions. Those who first enrolled as full-time students were twice as likely to persist without interruption as those who first enrolled as part-time students ( 61 percent compared with 25 percent). Students' academic performance in their first year was also related to their persistence rates: 74 percent of those who earned mostly A's maintained their persistence, as compared with 31 percent of those whose grades were mostly below C's.

## Summary and Conclusion

Tracing a group of students longitudinally for 5 years, as was done in the Beginning Postsecondary Students Longitudinal Study, provides the data necessary to understand what happens to the nearly 60 percent of beginning students in postsecondary education who leave their initial institution without completing a program. The survey data show that about half of these students continue in postsecondary education by transferring elsewhere, presumably to find a more appropriate program or institutional match. Many do find such a match: within 5 years, nearly two-thirds of all first-time beginners had either attained a degree or certificate or were still enrolled somewhere in postsecondary education.

Finding a more appropriate program or institution, however, takes time and delays completion. Pursuing one degree at one institution without interruption is the most direct way to complete a program in postsecondary education and to attain a degree in the shortest time. Many of the beginning students, however, did not follow this direct path. They changed institutions, changed degree programs, interrupted their studies, or some combinations therein. Interrupting the continuity of enrollment in postsecondary education substantially decreased rates of attainment for all groups of students. As long as there was no break in enrollment continuity, however, changing institutions or degree programs was an effective way for students to persist in postsecondary education at high rates and to attain a credential, even if it was not at the same level as their original degree objective.

A majority of the students who began postsecondary education for the first time in 1989-90 were age 18 or younger, the traditional age cohort for beginning college. Only a small proportion of these students had more than one persistence risk factor, and this young cohort had higher rates of five-year persistence and attainment than any other age group. Ninety percent of all the first-time beginners who attained a bachelor's degree within 5 years were age 18 or younger at the time that they began postsecondary education in 1989-90.

Those who did not begin postsecondary education until after the traditional age of 18 were burdened with persistence risk factors which increased with their age at entry. Although neither age at entry nor the number of risk factors was related to persistence and attainment rates for those who began at less-than-2-year institutions, older nontraditional students who began at either 2-year or 4-year institutions were less likely than their younger counterparts to attain any degree or to still be enrolled anywhere in postsecondary education after 5 years.

[^16]
## Table Compendium

## Part I

## Supplemental Persistence and Attainment Tables

## Section 1

## Overall Persistence and Attainment of Highest Degree - Total

Table 1.1—Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of highest degree as of spring 1994, by first institution attended, first degree working toward, and first degree attained

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secorl Follow-up (BPS:90/94), Data Analysis System.

Table 1.2-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of highest degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | $\begin{aligned} & \text { Associate's } \\ & \text { degree } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \\ \hline \end{gathered}$ | Attained degree | No degree, enrolled | $\begin{gathered} \text { No degree, } \\ \text { not } \\ \text { enrolled } \\ \hline \end{gathered}$ |
| Total | 50.0 | 12.9 | 11.2 | 25.8 | 50.0 | 13.3 | 36.8 |
| Number of months enrolled through first degree ${ }^{*}$ |  |  |  |  |  |  |  |
| Less than 12 months | 72.6 | 25.4 | 1.7 | 0.4 | 27.5 | 0.6 | 72.0 |
| 12-24 months | 53.7 | 20.3 | 17.4 | 8.7 | 46.3 | 8.2 | 45.5 |
| 25-36 months | 39.8 | 7.4 | 24.0 | 28.9 | 60.2 | 10.5 | 29.3 |
| 37-48 months | 31.2 | 1.8 | 8.4 | 58.6 | 68.8 | 22.6 | 8.6 |
| More than 48 months | 49.7 | 1.0 | 2.9 | 46.4 | 50.3 | 45.5 | 4.2 |
| Intensity of enrollment through first degree* |  |  |  |  |  |  |  |
| Exclusively part time | 81.3 | 16.5 | 1.5 | 0.7 | 18.7 | 6.4 | 74.9 |
| Mixed | 46.4 | 9.5 | 14.2 | 29.9 | 53.6 | 20.7 | 25.7 |
| Exclusively full time | 38.8 | 15.0 | 12.7 | 33.5 | 61.2 | 8.4 | 30.5 |
| Number of institutions attended through first degree |  |  |  |  |  |  |  |
| One | 50.8 | 12.2 | 11.0 | 26.0 | 49.2 | 8.3 | 42.5 |
| More than one | 48.8 | 14.1 | 11.5 | 25.6 | 51.2 | 20.9 | 28.0 |
| Enrollment continuity through first degree* |  |  |  |  |  |  |  |
| Continuously enrolled | 43.9 | 13.2 | 11.5 | 31.5 | 56.1 | 8.4 | 35.4 |
| Not continuously enrolled | 64.9 | 12.4 | 10.5 | 12.2 | 35.1 | 24.8 | 40.1 |
| Transfer status through first degreê |  |  |  |  |  |  |  |
| Did not transfer | 48.2 | 11.1 | 11.3 | 29.4 | 51.8 | 9.0 | 39.2 |
| Transferred | 54.7 | 17.5 | 11.0 | 16.8 | 45.3 | 23.8 | 30.9 |
| Academic year of last enrollment |  |  |  |  |  |  |  |
| 1989-90 | 84.6 | 15.4 | 0 | 0 | 15.4 | $\dagger$ | 84.6 |
| 1990-91 | 56.5 | 34.5 | 9.0 | 0 | 43.5 | $\dagger$ | 56.5 |
| 1991-92 | 57.0 | 17.7 | 18.9 | 6.5 | 43.0 | $\dagger$ | 57.0 |
| 1992-93 | 19.0 | 5.0 | 11.6 | 64.3 | 80.9 | $\dagger$ | 19.0 |
| 1993-94 | 44.1 | 7.5 | 13.8 | 34.6 | 55.9 | 31.7 | 12.4 |
| Transfer status and enrollment continuity through first degree |  |  |  |  |  |  |  |
| Did not transfer, continuously enrolled | 44.2 | 12.6 | 11.2 | 32.0 | 55.8 | 5.4 | 38.8 |
| Did not transfer, not continuously enrolled | 64.4 | 5.2 | 11.6 | 18.8 | 35.6 | 23.6 | 40.8 |
| Transferred, continuously enrolled | 42.6 | 15.8 | 12.6 | 29.0 | 57.4 | 21.4 | 21.1 |
| Transferred, not continuously enrolled | 65.3 | 18.9 | 9.6 | 6.2 | 34.7 | 25.9 | 39.4 |

*Through first degree (if any) or last enrollment.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 1.3-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \\ \hline \end{gathered}$ | Attained degree | No degree, enrolled | $\begin{gathered} \text { No degree, } \\ \text { not } \\ \text { enrolled } \\ \hline \end{gathered}$ |
| Total | 50.0 | 12.9 | 11.2 | 25.8 | 50.0 | 13.3 | 36.8 |
| Gender |  |  |  |  |  |  |  |
| Male | 54.0 | 11.3 | 10.2 | 24.5 | 46.0 | 15.6 | 38.4 |
| Female | 46.6 | 14.4 | 12.1 | 26.9 | 53.4 | 11.2 | 35.4 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 42.2 | 7.2 | 12.5 | 38.1 | 57.8 | 14.6 | 27.6 |
| 19 years | 59.2 | 15.8 | 12.6 | 12.5 | 40.8 | 15.6 | 43.6 |
| 20-29 years | 62.3 | 24.8 | 8.2 | 4.7 | 37.7 | 10.2 | 52.1 |
| 30 years or older | 67.0 | 24.9 | 6.4 | 1.7 | 33.0 | 7.2 | 59.8 |
| Socioeconomic status |  |  |  |  |  |  |  |
| Lowest quartile | 62.1 | 23.2 | 8.9 | 6.1 | 37.9 | 9.0 | 53.1 |
| Middle quartiles | 54.6 | 15.2 | 11.4 | 18.7 | 45.4 | 14.4 | 40.2 |
| Highest quartile | 40.4 | 6.6 | 11.9 | 41.1 | 59.6 | 13.5 | 26.9 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | 49.5 | 22.8 | 11.9 | 15.8 | 50.5 | 21.5 | 28.0 |
| Asian/Pacific Islander | 45.4 | 11.4 | 8.4 | 34.8 | 54.6 | 19.8 | 25.6 |
| Black, non-Hispanic | 58.2 | 16.1 | 8.8 | 16.9 | 41.8 | 13.5 | 44.7 |
| Hispanic | 55.0 | 15.7 | 11.5 | 17.8 | 45.0 | 18.7 | 36.3 |
| White, non-Hispanic | 48.8 | 12.3 | 11.6 | 27.3 | 51.2 | 12.3 | 36.5 |
| Marital status when began at first institution |  |  |  |  |  |  |  |
| Not married | 46.9 | 11.3 | 12.0 | 29.8 | 53.1 | 14.1 | 32.8 |
| Married | 64.9 | 22.7 | 8.1 | 4.4 | 35.1 | 7.7 | 57.2 |
| Separated | 59.0 | 37.4 | 2.5 | 1.1 | 41.0 | 1.2 | 57.7 |
| Parental education |  |  |  |  |  |  |  |
| Less than high school diploma | 59.5 | 24.3 | 7.2 | 9.1 | 40.5 | 9.3 | 50.3 |
| High school diploma | 54.7 | 15.8 | 12.2 | 17.4 | 45.3 | 11.1 | 43.5 |
| Some postsecondary | 49.4 | 11.2 | 12.2 | 27.2 | 50.6 | 14.5 | 34.9 |
| Bachelor's or higher | 41.2 | 6.2 | 11.8 | 40.8 | 58.8 | 16.9 | 24.3 |
| Dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent | 45.2 | 9.1 | 12.5 | 33.3 | 54.8 | 14.4 | 30.8 |
| Independent | 64.2 | 23.9 | 7.5 | 4.4 | 35.8 | 10.0 | 54.1 |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |  |
| Less than \$20,000 | 52.6 | 12.1 | 13.7 | 21.6 | 47.4 | 14.7 | 37.9 |
| \$20,000-39,999 | 48.8 | 9.8 | 12.7 | 28.7 | 51.2 | 14.2 | 34.6 |
| \$40,000-59,999 | 42.8 | 9.3 | 12.0 | 35.9 | 57.2 | 13.8 | 29.0 |
| \$60,000 or more | 35.3 | 4.9 | 11.3 | 48.5 | 64.8 | 15.2 | 20.0 |
| Independent |  |  |  |  |  |  |  |
| Less than \$10,000 | 57.0 | 28.3 | 8.8 | 5.9 | 43.0 | 9.4 | 47.7 |
| \$10,000-19,999 | 66.6 | 22.4 | 7.4 | 3.6 | 33.4 | 11.0 | 55.6 |
| \$20,000 or more | 71.6 | 19.4 | 6.0 | 3.0 | 28.4 | 10.1 | 61.5 |

SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 1.4—Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of highest degree as of spring 1994, by persistence risk factors when they began postsecondary education

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | $\begin{aligned} & \text { Associate's } \\ & \hline \text { degree } \\ & \hline \end{aligned}$ | Bachelor's degree | Attained degree | No degree, enrolled | No degree, not enrolled |
| Total | 50.0 | 12.9 | 11.2 | 25.8 | 50.0 | 13.3 | 36.8 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |
| None | 37.1 | 7.2 | 12.6 | 43.1 | 62.9 | 14.6 | 22.5 |
| One | 50.2 | 9.9 | 12.7 | 27.2 | 49.8 | 13.9 | 36.3 |
| Two | 58.2 | 20.6 | 13.5 | 7.7 | 41.8 | 12.1 | 46.2 |
| Three or more | 68.4 | 22.1 | 6.6 | 2.9 | 31.6 | 10.9 | 57.5 |
| High school diploma or equivalency status |  |  |  |  |  |  |  |
| High school diploma | 49.0 | 12.1 | 11.6 | 27.3 | 51.0 | 13.8 | 35.2 |
| GED or high school equivalent | 65.5 | 25.4 | 5.7 | 3.4 | 34.5 | 5.3 | 60.3 |
| Delayed postsecondary enrollment |  |  |  |  |  |  |  |
| Did not delay | 42.7 | 8.3 | 12.9 | 36.2 | 57.3 | 14.8 | 27.9 |
| Delayed | 65.3 | 22.6 | 7.7 | 4.4 | 34.7 | 10.1 | 55.1 |
| Attendance status when began at first institution |  |  |  |  |  |  |  |
| Full time | 42.0 | 11.3 | 12.6 | 34.2 | 58.0 | 13.3 | 28.7 |
| Part time | 69.7 | 16.6 | 9.6 | 4.1 | 30.3 | 14.0 | 55.7 |
| Dependency status when began at first institution |  |  |  |  |  |  |  |
| Dependent | 41.1 | 8.9 | 12.6 | 37.5 | 59.0 | 14.0 | 27.0 |
| Independent | 63.9 | 19.7 | 9.2 | 7.3 | 36.1 | 12.1 | 51.8 |
| Number of children when began at first institution |  |  |  |  |  |  |  |
| None | 48.0 | 10.0 | 11.8 | 30.1 | 52.0 | 14.4 | 33.6 |
| One or more | 61.9 | 28.3 | 7.5 | 2.3 | 38.1 | 7.7 | 54.2 |
| Single parent status when began at first institution |  |  |  |  |  |  |  |
| Not a single parent | 48.7 | 11.4 | 11.7 | 28.1 | 51.3 | 13.7 | 35.0 |
| Single parent | 59.0 | 33.6 | 5.2 | 2.2 | 41.0 | 6.0 | 53.1 |
| Worked full time while enrolled when began at first institution |  |  |  |  |  |  |  |
| Did not work full time | 45.1 | 13.6 | 12.1 | 29.2 | 54.9 | 12.7 | 32.4 |
| Worked full time | 61.8 | 11.9 | 9.0 | 17.4 | 38.2 | 14.6 | 47.2 |

${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{2}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 1.5—Percentage of 1989-90 beginning postsecondary students who ever attended selected types of institutions as of spring 1994, by first institution attended, first degree working toward, and highest degree attained

|  | Ever attended a 2-year public institution | Ever attended a 4-year institution | Ever attended a private for-profit institution |
| :---: | :---: | :---: | :---: |
| Total | 56.3 | 54.8 | 14.1 |
| Level and control of first institution |  |  |  |
| 4 -year |  |  |  |
| Public | 25.1 | 100.0 | 1.9 |
| Private, not-for-profit | 20.8 | 100.0 | 1.6 |
| Private, for-profit | - | - | - |
| 2-year |  |  |  |
| Public | 100.0 | 25.4 | 6.3 |
| Private, not-for-profit | 34.5 | 39.7 | 5.3 |
| Private, for-profit | 14.1 | 12.8 | 100.0 |
| Less-than-2-year 20.8 |  |  |  |
| Public | 20.8 | 5.9 | 8.6 |
| Private, not-for-profit | 41.6 | 25.4 | 12.3 |
| Private, for-profit | 13.1 | 5.4 | 100.0 |
| Level of first institution |  |  |  |
| 4 -year | 23.7 | 100.0 | 1.8 |
| 2-year | 91.2 | 24.9 | 13.4 |
| Less-than-2-year | 15.9 | 6.3 | 76.9 |
| Control of first institution |  |  |  |
| Public | 69.3 | 53.6 | 4.7 |
| Private, not-for-profit | 22.8 | 91.8 | 2.2 |
| Private, for-profit | 13.5 | 8.2 | 100.0 |
| Degree working toward at first institution |  |  |  |
| None | 87.0 | 22.3 | 11.7 |
| Certificate | 45.5 | 8.3 | 50.9 |
| Associate's degree | 83.7 | 31.5 | 13.4 |
| Bachelor's degree | 40.5 | 86.5 | 3.4 |
| Highest degree attained |  |  |  |
| None | 65.7 | 43.7 | 9.6 |
| Certificate | 55.5 | 15.9 | 56.0 |
| Associate's degree | 81.4 | 48.6 | 14.5 |
| Bachelor's degree | 27.5 | 98.4 | 1.5 |

[^17]$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 1.6-Percentage distribution of 1989-90 beginning postsecondary students according to control of transfer institutions as of spring 1994, by first institution attended, first degree working toward, and highest degree attained

|  | $\begin{gathered} \text { Did } \\ \text { not } \\ \text { transfer } \\ \hline \end{gathered}$ | Control of transfer institution |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Public to public | Private, not-forprofit to public | Public to private, not-forprofit | Other transfers |
| Total | 65.5 | 21.1 | 3.7 | 2.6 | 7.1 |
| Level and control of first institution 4-year |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Public | 72.0 | 22.5 | $\dagger$ | 4.1 | 1.4 |
| Private, not-for-profit | 71.3 | $\dagger$ | 21.0 | $\dagger$ | 7.7 |
| Private, for-profit | - | $\dagger$ | $\dagger$ | $\dagger$ | - |
| 2-year |  |  |  |  |  |
| Public | 57.8 | 33.3 | $\dagger$ | 3.2 | 5.6 |
| Private, not-for-profit | 37.6 | $\dagger$ | 44.8 | $\dagger$ | 17.6 |
| Private, for-profit | 68.2 | $\dagger$ | $\dagger$ | $\dagger$ | 31.8 |
| Less-than-2-year |  |  |  |  |  |
| Public | 74.1 | 16.0 | $\dagger$ | 1.4 | 8.4 |
| Private, not-for-profit | 46.4 | $\dagger$ | 21.5 | $\dagger$ | 32.1 |
| Private, for-profit | 77.9 | $\dagger$ | $\dagger$ | $\dagger$ | 22.0 |
| Level of first institution |  |  |  |  |  |
| 4 -year | 71.8 | 15.1 | 6.8 | 2.8 | 3.5 |
| 2-year | 57.9 | 29.6 | 1.6 | 2.9 | 8.1 |
| Less-than-2-year | 75.9 | 3.5 | 0.8 | 0.3 | 19.5 |
| Control of first institution |  |  |  |  |  |
| Public | 63.7 | 28.7 | $\dagger$ | 3.5 | 4.1 |
| Private, not-for-profit | 67.1 | $\dagger$ | 23.6 | $\dagger$ | 9.3 |
| Private, for-profit | 74.3 | $\dagger$ | $\dagger$ | $\dagger$ | 25.6 |
| Degree working toward at first institution |  |  |  |  |  |
| None | 59.9 | 22.0 | 2.7 | 3.1 | 12.3 |
| Certificate | 80.0 | 3.4 | 0.9 | 1.2 | 14.4 |
| Associate's degree | 57.8 | 28.2 | 2.6 | 3.5 | 7.9 |
| Bachelor's degree | 65.6 | 22.5 | 5.3 | 2.5 | 4.0 |
| Highest degree attained |  |  |  |  |  |
| None | 67.6 | 21.8 | 4.1 | 2.3 | 4.1 |
| Certificate | 55.8 | 14.4 | 1.9 | 1.6 | 26.3 |
| Associate's degree | 44.9 | 39.0 | 3.6 | 3.9 | 8.6 |
| Bachelor's degree | 75.1 | 15.2 | 3.9 | 3.0 | 2.8 |

[^18]$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

## Section 2

## Overall Persistence and Attainment of Highest Degree - By Sectors

Table 2.1a—Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by control of first institution attended, first degree working toward, and first degree attained

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \end{gathered}$ | Attained degree | No degree, enrolled | $\begin{gathered} \text { No degree, } \\ \text { not } \\ \text { enrolled } \\ \hline \end{gathered}$ |
|  | Students who began in 4-year institutions |  |  |  |  |  |  |
| Total | 39.6 | 2.9 | 4.2 | 53.3 | 60.4 | 15.2 | 24.4 |
| Control of first institution |  |  |  |  |  |  |  |
| Public | 45.2 | 3.2 | 4.7 | 47.0 | 54.8 | 18.4 | 26.8 |
| Private, not-for-profit | 28.1 | 2.3 | 3.0 | 66.6 | 71.9 | 8.6 | 19.5 |
| Private, for-profit | - | - | - | - | - | - | - |
| Degree working toward at first institution |  |  |  |  |  |  |  |
| None | 69.6 | 5.3 | 4.4 | 20.8 | 30.5 | 12.4 | 57.1 |
| Certificate | 42.7 | 15.2 | 9.3 | 32.8 | 57.3 | 9.4 | 33.3 |
| Associate's degree | 56.0 | 5.8 | 16.7 | 21.5 | 44.0 | 13.1 | 43.0 |
| Bachelor's degree | 37.4 | 2.4 | 3.1 | 57.1 | 62.6 | 15.6 | 21.8 |
| First type of degree attained |  |  |  |  |  |  |  |
| None | 100.0 | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | 38.4 | 61.6 |
| Certificate | $\dagger$ | 89.3 | 4.0 | 6.7 | 100.0 | $\dagger$ | $\dagger$ |
| Associate's degree | $\dagger$ | $\dagger$ | 78.1 | 21.9 | 100.0 | $\dagger$ | $\dagger$ |
| Bachelor's degree | $\dagger$ | $\pm$ | $\pm$ | 100.0 | 100.0 | $\dagger$ | $\dagger$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 2.1b—Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by control of first institution attended, first degree working toward, and first degree attained

| Highest degree attained |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Students who began in 2-year institutions

| Total | 61.6 | 13.8 | 18.6 | 6.1 | 38.4 | 13.6 | 48.0 |
| :--- | ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| Control of first institution |  |  |  |  |  |  |  |
| Public | 63.3 | 12.9 | 17.5 | 6.3 | 36.7 | 14.7 | 48.6 |
| Private, not-for-profit | 47.8 | 14.5 | 29.6 | 8.1 | 52.2 | 12.5 | 35.3 |
| Private, for-profit | 48.0 | 22.9 | 26.8 | 2.3 | 52.0 | 1.5 | 46.5 |

Degree working toward at first institution

| None | 87.0 | 6.0 | 3.6 | 3.4 | 13.0 | 13.8 | 73.3 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Certificate | 56.0 | 37.7 | 6.2 | 0.2 | 44.0 | 5.3 | 50.7 |
| Associate's degree | 57.4 | 11.4 | 23.7 | 7.5 | 42.6 | 12.1 | 45.2 |
| Bachelor's degree | 63.1 | 8.1 | 21.0 | 7.9 | 36.9 | 22.5 | 40.6 |

First type of degree attained

| None | 100.0 | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | 22.1 | 77.9 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Certificate | $\dagger$ | 96.8 | 3.1 | 0.2 | 100.0 | $\dagger$ | $\dagger$ |
| Associate's degree | $\dagger$ | $\dagger$ | 83.3 | 16.7 | 100.0 | $\dagger$ | $\dagger$ |
| Bachelor's degree | $\dagger$ | $\dagger$ | $\dagger$ | 100.0 | 100.0 | $\dagger$ | $\dagger$ |

$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary StudentsLongitudinal Study—Seconl Follow-up (BPS:90/94), Data Analysis System.

Table 2.1c—Percentage distribution of 1989-90 beginning postsecondary students who began in less-than-2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by control of first institution, first degree working toward, and first degree attained

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | Bachelor's degree | Attained degree | No degree, enrolled | No degree, not enrolled |
|  | Students who began in less-than-2-year institutions |  |  |  |  |  |  |
| Total | 38.0 | 58.3 | 2.8 | 0.9 | 62.0 | 2.5 | 35.5 |
| Control of first institution |  |  |  |  |  |  |  |
| Public | 45.1 | 52.6 | 2.3 | 0 | 54.9 | 1.6 | 43.5 |
| Private, not-for-profit | 37.2 | 40.3 | 22.5 | 0 | 62.8 | 14.9 | 22.3 |
| Private, for-profit | 36.0 | 60.9 | 1.8 | 1.2 | 64.0 | 2.1 | 33.9 |
| Degree working toward at first institution |  |  |  |  |  |  |  |
| None | - | - | - | - | - | - | - |
| Certificate | 36.3 | 60.0 | 2.7 | 1.0 | 63.7 | 2.3 | 34.0 |
| Associate's degree | - | - | - | - | - | - | - |
| Bachelor's degree | - | - | - | - | - | - | - |
| First type of degree attained |  |  |  |  |  |  |  |
| None | 100.0 | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | 6.5 | 93.5 |
| Certificate | $\dagger$ | 96.5 | 2.6 | 0.9 | 100.0 | $\dagger$ | $\dagger$ |
| Associate's degree | $\dagger$ | $\dagger$ | - | - | - | $\dagger$ | $\dagger$ |
| Bachelor's degree | $\pm$ | $\dagger$ | $\dagger$ | - | - | $\pm$ | $\pm$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secoral Follow-up (BPS:90/94), Data Analysis System.

Table 2.2a-Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | $\begin{aligned} & \text { Associate's } \\ & \hline \text { degree } \\ & \hline \end{aligned}$ | Bachelor's degree | Attained degree | No degree, enrolled | No degree, not enrolled |
|  | Students who began in 4-year institutions |  |  |  |  |  |  |
| Total | 39.6 | 2.9 | 4.2 | 53.3 | 60.4 | 15.2 | 24.4 |
| Number of months enrolled through first degree* |  |  |  |  |  |  |  |
| Less than 12 months | 90.7 | 6.0 | 1.9 | 1.3 | 9.3 | 0.5 | 90.2 |
| 12-24 months | 68.4 | 10.7 | 8.8 | 12.1 | 31.6 | 7.7 | 60.7 |
| 25-36 months | 36.8 | 3.9 | 8.2 | 51.1 | 63.2 | 8.3 | 28.5 |
| 37-48 months | 23.9 | 0.6 | 2.3 | 73.2 | 76.1 | 16.3 | 7.6 |
| More than 48 months | 41.1 | 0.3 | 0.4 | 58.2 | 58.9 | 37.1 | 4.0 |
| Intensity of enrollment through first degree* |  |  |  |  |  |  |  |
| Exclusively part time | 90.3 | 5.5 | 2.5 | 1.7 | 9.7 | 5.9 | 84.4 |
| Mixed | 40.6 | 2.9 | 4.1 | 52.4 | 59.4 | 19.8 | 20.8 |
| Exclusively full time | 32.8 | 2.5 | 4.4 | 60.3 | 67.3 | 11.2 | 21.6 |
| Number of institutions attended through first degree* |  |  |  |  |  |  |  |
| One | 37.1 | 0.9 | 2.5 | 59.6 | 62.9 | 11.5 | 25.6 |
| More than one | 42.8 | 5.3 | 6.3 | 45.6 | 57.2 | 19.8 | 23.0 |
| Enrollment continuity through first degree* |  |  |  |  |  |  |  |
| Continuously enrolled | 31.7 | 2.1 | 3.9 | 62.3 | 68.3 | 10.4 | 21.2 |
| Not continuously enrolled | 61.3 | 5.1 | 4.7 | 28.9 | 38.7 | 28.2 | 33.0 |
| Transfer status through first degreể |  |  |  |  |  |  |  |
| Did not transfer | 34.7 | 0.8 | 2.1 | 62.4 | 65.3 | 11.9 | 22.8 |
| Transferred | 52.2 | 8.3 | 9.4 | 30.2 | 47.8 | 23.6 | 28.6 |
| Academic year of last enrollment |  |  |  |  |  |  |  |
| 1989-90 | 98.1 | 1.9 | 0 | 0 | 1.9 | $\dagger$ | 98.1 |
| 1990-91 | 86.2 | 6.9 | 6.8 | 0 | 13.8 | $\dagger$ | 86.2 |
| 1991-92 | 65.2 | 7.8 | 8.1 | 18.8 | 34.8 | $\dagger$ | 65.2 |
| 1992-93 | 13.5 | 1.7 | 3.1 | 81.7 | 86.5 | $\dagger$ | 13.5 |
| 1993-94 | 39.4 | 2.5 | 4.3 | 53.8 | 60.6 | 28.9 | 10.5 |
| Transfer status and enrollment continuity through first degreê |  |  |  |  |  |  |  |
| Did not transfer, continuously enrolled | 30.0 | 0.9 | 2.1 | 67.0 | 70.0 | 8.7 | 21.3 |
| Did not transfer, not continuously enrolled | 54.7 | 0.4 | 2.1 | 42.9 | 45.3 | 25.6 | 29.1 |
| Transferred, continuously enrolled | 38.0 | 6.8 | 11.1 | 44.1 | 62.0 | 17.0 | 21.0 |
| Transferred, not continuously enrolled | 68.1 | 9.9 | 7.5 | 14.5 | 31.9 | 31.0 | 37.2 |

*Through first degree (if any) or last enrollment.
$\dagger$ Not applicable.
SOURCE:U.S.Departmentof Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secoral Follow-up (BPS:90/94), Data Analysis System.

Table 2.2b—Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment

|  | Highest degree attained |  |  |  | Overall <br> persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \end{gathered}$ | Attained degree | No degree, enrolled | $\begin{gathered} \text { No degree, } \\ \text { not } \\ \text { enrolled } \\ \hline \end{gathered}$ |
|  | Students who began in 2-year institutions |  |  |  |  |  |  |
| Total | 61.6 | 13.8 | 18.6 | 6.1 | 38.4 | 13.6 | 48.0 |
| Number of months enrolled through first degree* |  |  |  |  |  |  |  |
| Less than 12 months | 80.3 | 17.7 | 1.9 | 0.1 | 19.7 | 0.5 | 79.8 |
| 12-24 months | 53.1 | 17.2 | 21.5 | 8.2 | 46.9 | 8.9 | 44.2 |
| 25-36 months | 43.4 | 9.4 | 41.1 | 6.1 | 56.6 | 12.7 | 30.7 |
| 37-48 months | 53.2 | 5.5 | 26.0 | 15.3 | 46.8 | 41.6 | 11.6 |
| More than 48 months | 75.4 | 3.2 | 10.0 | 11.5 | 24.6 | 70.4 | 5.0 |
| Intensity of enrollment through first degree* |  |  |  |  |  |  |  |
| Exclusively part time | 87.4 | 10.9 | 1.6 | 0.2 | 12.6 | 7.7 | 79.8 |
| Mixed | 53.5 | 14.3 | 24.7 | 7.5 | 46.5 | 22.3 | 31.3 |
| Exclusively full time | 48.7 | 15.7 | 26.1 | 9.6 | 51.3 | 7.3 | 41.4 |
| Number of institutions attended through first degree |  |  |  |  |  |  |  |
| One | 65.7 | 9.3 | 19.9 | 5.2 | 34.3 | 7.8 | 57.8 |
| More than one | 55.2 | 20.7 | 16.7 | 7.4 | 44.8 | 22.6 | 32.6 |
| Enrollment continuity through first degree ${ }^{*}$ |  |  |  |  |  |  |  |
| Continuously enrolled | 58.0 | 12.5 | 20.8 | 8.7 | 42.0 | 8.6 | 49.5 |
| Not continuously enrolled | 68.2 | 16.1 | 14.6 | 1.1 | 31.8 | 23.1 | 45.1 |
| Transfer status through first degreể |  |  |  |  |  |  |  |
| Did not transfer | 64.1 | 9.1 | 21.6 | 5.2 | 35.9 | 8.4 | 55.6 |
| Transferred | 56.2 | 23.6 | 12.3 | 7.9 | 43.8 | 24.4 | 31.8 |
| Academic year of last enrollment |  |  |  |  |  |  |  |
| 1989-90 | 91.0 | 9.0 | 0 | 0 | 9.0 | $\dagger$ | 91.0 |
| 1990-91 | 62.8 | 24.5 | 12.7 | 0 | 37.2 | $\dagger$ | 62.8 |
| 1991-92 | 56.2 | 18.2 | 24.9 | 0.7 | 43.8 | $\dagger$ | 56.2 |
| 1992-93 | 36.1 | 10.1 | 36.8 | 17.0 | 63.9 | $\dagger$ | 36.1 |
| 1993-94 | 51.4 | 11.1 | 25.3 | 12.2 | 48.6 | 36.5 | 14.8 |
| Transfer status and enrollment continuity through first degreê |  |  |  |  |  |  |  |
| Did not transfer, continuously enrolled | 61.2 | 9.7 | 22.5 | 6.6 | 38.8 | 3.8 | 57.4 |
| Did not transfer, not continuously enrolled | 73.2 | 7.0 | 19.0 | 0.9 | 26.8 | 23.2 | 50.0 |
| Transferred, continuously enrolled | 46.2 | 22.7 | 14.4 | 16.6 | 53.8 | 26.4 | 19.8 |
| Transferred, not continuously enrolled | 63.7 | 24.2 | 10.7 | 1.4 | 36.3 | 22.9 | 40.8 |

*Through first degree (if any) or last enrollment.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 2.2c-Percentage distribution of 1989-90 beginning postsecondary students who began in less-than-2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment

| 1994, by attendance patterns through first degree attained (if any) or last enrollment |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |

Students who began in less-than-2-year institutions

| Total | 38.0 | 58.3 | 2.8 | 0.9 | 62.0 | 2.5 | 35.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of months enrolled through first degree* |  |  |  |  |  |  |  |
| Less than 12 months | 41.6 | 56.9 | 0.7 | 0.7 | 58.4 | 0.9 | 40.8 |
| 12-24 months | 27.3 | 66.4 | 5.7 | 0.7 | 72.7 | 4.7 | 22.6 |
| 25-36 months |  | - | - | - | - | - | - |
| 37-48 months | - | - | - | - | - | - | - |
| More than 48 months | - | - | - | - | - | - | - |
| Intensity of enrollment through first degree* |  |  |  |  |  |  |  |
| Exclusively part time | 46.3 | 52.9 | 0.2 | 0.6 | 53.7 | 0.8 | 45.5 |
| Mixed | 36.7 | 48.3 | 14.0 | 1.0 | 63.3 | 14.6 | 22.1 |
| Exclusively full time | 33.2 | 63.9 | 1.8 | 1.1 | 66.8 | 0.7 | 32.5 |
| Number of institutions attended through first degree ${ }^{*}$ |  |  |  |  |  |  |  |
| One | 35.8 | 62.5 | 1.0 | 0.7 | 64.2 | 0 | 35.8 |
| More than one | 48.1 | 38.9 | 10.9 | 2.0 | 51.9 | 14.1 | 34.0 |
| Enrollment continuity through first degree ${ }^{*}$ |  |  |  |  |  |  |  |
| Continuously enrolled | 35.3 | 62.1 | 1.9 | 0.6 | 64.7 | 0.2 | 35.1 |
| Not continuously enrolled | 57.1 | 31.0 | 8.9 | 3.0 | 42.9 | 18.6 | 38.5 |
| Transfer status through first degreê |  |  |  |  |  |  |  |
|  | 34.4 | 63.1 | 1.8 | 0.6 | 65.6 | 0 | 34.4 |
| Transferred | 60.7 | 27.8 | 8.8 | 2.7 | 39.3 | 18.3 | 42.4 |
| Academic year of last enrollment |  |  |  |  |  |  |  |
| 1989-90 | 54.0 | 46.0 | 0 | 0 | 46.0 | $\dagger$ | 54.0 |
| 1990-91 | 26.4 | 73.2 | 0.4 | 0 | 73.6 | $\dagger$ | 26.4 |
| 1991-92 | 31.7 | 66.3 | 2.0 | 0.0 | 68.3 | $\dagger$ | 31.7 |
| 1992-93 | - | - | - | - | - |  |  |
| 1993-94 | 30.6 | 47.5 | 15.9 | 6.1 | 69.4 | 17.8 | 12.8 |
| Transfer status and enrollment continuity through first degreễ |  |  |  |  |  |  |  |
| Did not transfer, continuously enrolled | 34.4 | 63.0 | 1.9 | 0.7 | 65.6 | 0 | 34.4 |
| Did not transfer, not continuously enrolled | - | - | - | - | - | - | - |
| Transferred, continuously enrolled | - | - | - | - | - | - | - |
| Transferred, not continuously enrolled | 63.4 | 21.3 | 11.5 | 3.8 | 36.6 | 24.0 | 39.4 |

*Through first degree (if any) or last enrollment.
-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 2.3a-Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | Bachelor's degree | Attained degree | No degree, enrolled | No degree, not enrolled |
|  | Students who began in 4-year institutions |  |  |  |  |  |  |
| Total | 39.6 | 2.9 | 4.2 | 53.3 | 60.4 | 15.2 | 24.4 |
| Gender |  |  |  |  |  |  |  |
| Male | 43.5 | 2.4 | 3.9 | 50.2 | 56.5 | 17.3 | 26.3 |
| Female | 36.1 | 3.3 | 4.4 | 56.2 | 63.9 | 13.4 | 22.7 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 35.6 | 2.4 | 4.0 | 58.0 | 64.4 | 15.3 | 20.3 |
| 19 years | 52.2 | 4.7 | 3.0 | 40.0 | 47.8 | 16.7 | 35.5 |
| 20-29 years | 65.2 | 5.3 | 6.9 | 22.5 | 34.8 | 12.7 | 52.5 |
| 30 years or older | 76.5 | 7.9 | 6.4 | 9.2 | 23.5 | 11.1 | 65.4 |
| Socioeconomic status |  |  |  |  |  |  |  |
| Lowest quartile | 66.5 | 2.8 | 4.9 | 25.8 | 33.5 | 17.4 | 49.1 |
| Middle quartiles | 46.2 | 3.7 | 5.0 | 45.1 | 53.8 | 17.0 | 29.2 |
| Highest quartile | 32.8 | 2.4 | 3.5 | 61.3 | 67.3 | 13.8 | 19.0 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 32.5 | 2.7 | 1.7 | 63.1 | 67.6 | 18.5 | 13.9 |
| Black, non-Hispanic | 49.2 | 4.6 | 4.3 | 41.9 | 50.8 | 21.3 | 27.9 |
| Hispanic | 49.4 | 1.3 | 2.1 | 47.2 | 50.6 | 21.3 | 28.1 |
| White, non-Hispanic | 38.6 | 2.7 | 4.4 | 54.3 | 61.4 | 14.1 | 24.4 |
| Marital status when began at first institution |  |  |  |  |  |  |  |
| Not married | 38.0 | 2.6 | 4.1 | 55.3 | 62.0 | 15.3 | 22.7 |
| Married | 65.2 | 8.9 | 6.4 | 19.5 | 34.8 | 11.8 | 53.4 |
| Separated | - | - | - | - | - | - | - |
| Parental education |  |  |  |  |  |  |  |
| Less than high school diploma | 44.3 | 7.1 | 6.6 | 42.0 | 55.8 | 14.7 | 29.6 |
| High school diploma | 49.5 | 4.6 | 4.6 | 41.3 | 50.5 | 16.7 | 32.8 |
| Some postsecondary | 41.9 | 2.1 | 4.9 | 51.2 | 58.1 | 14.9 | 26.9 |
| Bachelor's or higher | 31.9 | 1.8 | 3.2 | 63.1 | 68.1 | 14.7 | 17.2 |
| Dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent | 37.1 | 2.6 | 4.0 | 56.3 | 62.9 | 15.3 | 21.8 |
| Independent | 66.9 | 6.2 | 5.4 | 21.5 | 33.1 | 14.1 | 52.8 |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |  |
| Less than \$20,000 | 47.5 | 3.0 | 4.9 | 44.5 | 52.5 | 18.2 | 29.3 |
| \$20,000-39,999 | 41.9 | 2.5 | 4.0 | 51.5 | 58.1 | 16.5 | 25.5 |
| \$40,000-59,999 | 35.2 | 3.3 | 4.1 | 57.4 | 64.8 | 15.5 | 19.6 |
| \$60,000 or more | 27.8 | 1.7 | 3.4 | 67.1 | 72.2 | 12.2 | 15.6 |
| Independent |  |  |  |  |  |  |  |
| Less than \$10,000 | 63.0 | 5.5 | 6.4 | 25.1 | 37.0 | 17.0 | 46.0 |
| \$10,000-19,999 | 60.7 | 5.8 | 3.0 | 30.5 | 39.3 | 18.1 | 42.6 |
| \$20,000 or more | 76.9 | 7.5 | 5.2 | 10.4 | 23.1 | 7.1 | 69.8 |

-Too few cases for a reliable estimate.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 2.3b—Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | Bachelor's degree | Attained degree |  | No degree, not enrolled |
|  | Students who began in 2-year institutions |  |  |  |  |  |  |
| Total | 61.6 | 13.8 | 18.6 | 6.1 | 38.4 | 13.6 | 48.0 |
| Gender |  |  |  |  |  |  |  |
| Male | 65.4 | 13.0 | 16.2 | 5.5 | 34.6 | 16.2 | 49.2 |
| Female | 58.1 | 14.4 | 20.9 | 6.6 | 41.9 | 11.2 | 46.8 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 53.2 | 9.9 | 25.8 | 11.0 | 46.8 | 14.7 | 38.5 |
| 19 years | 66.8 | 13.6 | 19.3 | 0.2 | 33.2 | 17.4 | 49.5 |
| 20-29 years | 68.8 | 18.8 | 9.9 | 2.5 | 31.2 | 12.0 | 56.8 |
| 30 years or older | 72.7 | 18.4 | 8.0 | 0.8 | 27.3 | 8.4 | 64.3 |
| Socioeconomic status |  |  |  |  |  |  |  |
| Lowest quartile | 68.1 | 18.1 | 11.8 | 1.9 | 31.9 | 9.6 | 58.4 |
| Middle quartiles | 63.1 | 14.9 | 16.6 | 5.4 | 36.9 | 14.8 | 48.3 |
| Highest quartile | 54.6 | 8.9 | 26.6 | 9.9 | 45.4 | 13.9 | 40.7 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 62.4 | 15.0 | 16.7 | 5.9 | 37.6 | 23.0 | 39.3 |
| Black, non-Hispanic | 64.8 | 17.8 | 14.1 | 3.2 | 35.2 | 11.3 | 53.5 |
| Hispanic | 61.8 | 15.3 | 16.4 | 6.6 | 38.2 | 20.5 | 41.3 |
| White, non-Hispanic | 61.0 | 13.1 | 19.6 | 6.4 | 39.0 | 12.2 | 48.8 |
| Marital status when began at first institution |  |  |  |  |  |  |  |
| Not married | 58.1 | 13.2 | 21.5 | 7.3 | 41.9 | 14.8 | 43.3 |
| Married | 71.3 | 16.5 | 9.7 | 2.6 | 28.8 | 8.5 | 62.8 |
| Separated | - | - | - | - | - | - | - |
| Parental education |  |  |  |  |  |  |  |
| Less than high school diploma | 69.7 | 19.2 | 9.1 | 2.0 | 30.3 | 10.2 | 59.5 |
| High school diploma | 60.4 | 14.6 | 18.7 | 6.3 | 39.6 | 9.8 | 50.7 |
| Some postsecondary | 61.0 | 11.4 | 20.9 | 6.8 | 39.0 | 16.3 | 44.7 |
| Bachelor's or higher | 57.0 | 9.8 | 25.0 | 8.2 | 43.0 | 21.1 | 35.9 |
| Dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent | 56.5 | 11.7 | 23.5 | 8.4 | 43.5 | 14.6 | 41.8 |
| Independent | 71.2 | 17.6 | 9.4 | 1.8 | 28.8 | 11.7 | 59.5 |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |  |
| Less than \$20,000 | 59.4 | 12.7 | 22.3 | 5.6 | 40.6 | 14.4 | 45.1 |
| \$20,000-39,999 | 56.0 | 13.1 | 21.5 | 9.3 | 44.0 | 12.6 | 43.4 |
| \$40,000-59,999 | 55.5 | 12.1 | 23.3 | 9.1 | 44.5 | 12.5 | 43.0 |
| \$60,000 or more | 53.9 | 5.9 | 30.5 | 9.8 | 46.1 | 23.6 | 30.2 |
| Independent |  |  |  |  |  |  |  |
| Less than \$10,000 | 60.7 | 25.0 | 11.9 | 2.4 | 39.3 | 10.1 | 50.6 |
| \$10,000-19,999 | 79.7 | 11.1 | 8.7 | 0.5 | 20.3 | 13.5 | 66.2 |
| \$20,000 or more | 76.6 | 14.1 | 7.3 | 2.0 | 23.4 | 12.2 | 64.5 |

-Too few cases for a reliable estimate.
SOURCE:U.S.Departmentof Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 2.3c-Percentage distribution of 1989-90 beginning postsecondary students who began in less-than-2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \end{gathered}$ | Attained degree | No degree, enrolled | $\begin{gathered} \text { No degree, } \\ \text { not } \\ \text { enrolled } \\ \hline \end{gathered}$ |
| Students who began in less-than-2-year institutions |  |  |  |  |  |  |  |
| Total | 38.0 | 58.3 | 2.8 | 0.9 | 62.0 | 2.5 | 35.5 |
| Gender |  |  |  |  |  |  |  |
| Male | 39.9 | 55.8 | 4.0 | 0.3 | 60.1 | 2.3 | 37.6 |
| Female | 36.9 | 59.7 | 2.1 | 1.3 | 63.1 | 2.6 | 34.3 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 35.6 | 57.5 | 4.3 | 2.6 | 64.4 | 3.6 | 32.0 |
| 19 years | 38.0 | 58.3 | 3.7 | 0.0 | 62.0 | 3.0 | 35.0 |
| 20-29 years | 39.1 | 57.4 | 2.8 | 0.7 | 60.9 | 2.8 | 36.3 |
| 30 years or older | 38.8 | 61.1 | 0.2 | 0 | 61.2 | 0 | 38.8 |
| Socioeconomic status |  |  |  |  |  |  |  |
| Lowest quartile | 42.9 | 55.5 | 0.9 | 0.8 | 57.1 | 0.8 | 42.1 |
| Middle quartiles | 37.0 | 58.8 | 3.2 | 1.0 | 63.0 | 2.9 | 34.1 |
| Highest quartile | 29.4 | 63.7 | 6.0 | 0.9 | 70.6 | 5.2 | 24.2 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - |
| Asian/Pacific Islander | - | - | - | - | - | - | - |
| Black, non-Hispanic | 58.3 | 39.0 | 1.4 | 1.3 | 41.8 | 1.6 | 56.7 |
| Hispanic | 31.9 | 62.2 | 2.6 | 3.3 | 68.1 | 1.9 | 30.0 |
| White, non-Hispanic | 35.4 | 60.8 | 3.2 | 0.6 | 64.6 | 2.8 | 32.5 |
| Marital status when began at first institution |  |  |  |  |  |  |  |
| Not married | 37.5 | 57.6 | 3.8 | 1.2 | 62.5 | 2.8 | 34.7 |
| Married | 37.2 | 61.5 | 0.7 | 0.6 | 62.8 | 1.0 | 36.2 |
| Separated | 40.5 | 59.5 | 0 | 0 | 59.5 | 0 | 40.5 |
| Parental education |  |  |  |  |  |  |  |
| Less than high school diploma | 38.8 | 59.4 | 1.0 | 0.8 | 61.2 | 1.6 | 37.1 |
| High school diploma | 42.7 | 55.0 | 1.1 | 1.1 | 57.3 | 2.4 | 40.3 |
| Some postsecondary | 28.2 | 68.4 | 3.0 | 0.4 | 71.8 | 1.4 | 26.8 |
| Bachelor's or higher | 32.6 | 50.9 | 14.4 | 2.1 | 67.4 | 8.8 | 23.8 |
| Dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent | 36.1 | 59.2 | 3.6 | 1.1 | 63.9 | 3.7 | 32.4 |
| Independent | 39.3 | 57.7 | 2.2 | 0.8 | 60.7 | 1.7 | 37.6 |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |  |
| Less than \$20,000 | 42.1 | 56.3 | 1.6 | 0 | 57.9 | 1.1 | 41.0 |
| \$20,000-39,999 | 44.8 | 44.6 | 7.4 | 3.2 | 55.2 | 8.2 | 36.6 |
| \$40,000-59,999 | 15.2 | 83.7 | 1.1 | 0 | 84.8 | 2.7 | 12.5 |
| \$60,000 or more | - | - | - | - | - | - | - |
| Independent |  |  |  |  |  |  |  |
| Less than \$10,000 | 42.3 | 54.7 | 1.7 | 1.3 | 57.7 | 1.6 | 40.7 |
| \$10,000-19,999 | 33.9 | 61.8 | 4.3 | 0 | 66.1 | 1.1 | 32.8 |
| \$20,000 or more | 40.4 | 58.4 | 0.2 | 0.9 | 59.6 | 2.6 | 37.8 |

-Too few cases for a reliable estimate.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 2.4a-Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by persistence risk factors when they began at first institution

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \end{gathered}$ | Attained degree | No degree, enrolled | No degree, not enrolled |
|  | Students who began in 4-year institutions |  |  |  |  |  |  |
| Total | 39.6 | 2.9 | 4.2 | 53.3 | 60.4 | 15.2 | 24.4 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |
| None | 33.6 | 2.4 | 3.4 | 60.5 | 66.4 | 15.4 | 18.3 |
| One | 41.0 | 2.6 | 4.9 | 51.5 | 59.0 | 15.2 | 25.8 |
| Two | 62.7 | 4.5 | 8.3 | 24.5 | 37.3 | 13.9 | 48.8 |
| Three or more | 72.3 | 7.1 | 4.9 | 15.7 | 27.7 | 14.7 | 57.6 |
| High school diploma or equivalency status |  |  |  |  |  |  |  |
| High school diploma | 39.1 | 2.9 | 4.2 | 53.8 | 60.9 | 15.2 | 24.0 |
| GED or high school equivalent | 70.5 | 2.6 | 4.5 | 22.5 | 29.5 | 18.0 | 52.5 |
| Delayed postsecondary enrollment |  |  |  |  |  |  |  |
| Did not delay | 36.0 | 2.4 | 4.0 | 57.7 | 64.1 | 15.5 | 20.4 |
| Delayed | 67.3 | 6.4 | 5.4 | 20.8 | 32.6 | 12.7 | 54.7 |
| Attendance status when began at first institution |  |  |  |  |  |  |  |
| Full time | 36.1 | 2.6 | 4.0 | 57.4 | 63.9 | 14.9 | 21.2 |
| Part time | 66.7 | 6.4 | 8.2 | 18.7 | 33.3 | 14.9 | 51.9 |
| Dependency status when began at first institution |  |  |  |  |  |  |  |
| Dependent | 35.0 | 2.6 | 3.8 | 58.6 | 65.0 | 14.6 | 20.4 |
| Independent | 61.8 | 4.5 | 6.1 | 27.6 | 38.2 | 18.3 | 43.5 |
| Number of children when began at first institution |  |  |  |  |  |  |  |
| None | 38.4 | 2.8 | 4.0 | 54.8 | 61.6 | 15.3 | 23.1 |
| One or more | 74.3 | 5.3 | 7.1 | 13.4 | 25.7 | 13.8 | 60.5 |
| Single parent status when began at first institution |  |  |  |  |  |  |  |
| Not a single parent | 38.5 | 2.9 | 4.1 | 54.5 | 61.5 | 15.2 | 23.3 |
| Single parent | 75.7 | 2.0 | 6.1 | 16.2 | 24.3 | 13.3 | 62.5 |
| Worked full time while enrolled when began at first institution |  |  |  |  |  |  |  |
| Did not work full time | 38.1 | 2.8 | 4.2 | 54.9 | 61.9 | 15.9 | 22.2 |
| Worked full time | 44.5 | 3.5 | 4.4 | 47.6 | 55.5 | 12.5 | 32.1 |

${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{2}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 2.4b—Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by persistence risk factors when they began at first institution

|  | Highest degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | Bachelor's degree | Attained degree | No degree, enrolled | No degree, not enrolled |
|  | Students who began in 2-year institutions |  |  |  |  |  |  |
| Total | 61.6 | 13.8 | 18.6 | 6.1 | 38.4 | 13.6 | 48.0 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |
| None | 45.7 | 9.2 | 31.3 | 13.8 | 54.3 | 14.9 | 30.7 |
| One | 59.6 | 13.7 | 21.0 | 5.7 | 40.4 | 13.9 | 45.7 |
| Two | 63.4 | 16.8 | 16.6 | 3.2 | 36.6 | 13.7 | 49.7 |
| Three or more | 74.3 | 16.2 | 8.2 | 1.4 | 25.7 | 12.3 | 62.0 |
| High school diploma or equivalency status |  |  |  |  |  |  |  |
| High school diploma | 60.4 | 13.5 | 19.6 | 6.5 | 39.6 | 14.4 | 45.9 |
| GED or high school equivalent | 74.9 | 16.1 | 7.6 | 1.5 | 25.1 | 3.9 | 70.9 |
| Delayed postsecondary enrollment |  |  |  |  |  |  |  |
| Did not delay | 53.6 | 11.1 | 25.8 | 9.5 | 46.4 | 15.1 | 38.5 |
| Delayed | 71.6 | 17.1 | 9.6 | 1.7 | 28.4 | 11.6 | 60.0 |
| Attendance status when began at first institution |  |  |  |  |  |  |  |
| Full time | 52.0 | 12.6 | 25.6 | 9.8 | 48.0 | 13.7 | 38.3 |
| Part time | 72.7 | 15.0 | 10.6 | 1.8 | 27.3 | 14.4 | 58.2 |
| Dependency status when began at first institution |  |  |  |  |  |  |  |
| Dependent | 51.4 | 12.1 | 26.6 | 9.9 | 48.6 | 14.5 | 36.8 |
| Independent | 70.8 | 15.4 | 11.2 | 2.7 | 29.2 | 12.9 | 57.9 |
| Number of children when began at first institution |  |  |  |  |  |  |  |
| None | 60.3 | 11.4 | 20.9 | 7.4 | 39.7 | 15.1 | 45.3 |
| One or more | 66.4 | 22.9 | 9.6 | 1.1 | 33.6 | 8.5 | 58.0 |
| Single parent status when began at first institution |  |  |  |  |  |  |  |
| Not a single parent | 60.6 | 12.8 | 19.8 | 6.8 | 39.4 | 14.0 | 46.5 |
| Single parent | 63.0 | 29.4 | 6.8 | 0.8 | 37.0 | 6.4 | 56.6 |
| Worked full time while enrolled when began at first institution |  |  |  |  |  |  |  |
| Did not work full time | 55.1 | 15.4 | 22.1 | 7.3 | 44.9 | 11.9 | 43.2 |
| Worked full time | 73.4 | 11.6 | 12.2 | 2.8 | 26.6 | 16.7 | 56.7 |

${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{2}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 2.4c-Percentage distribution of 1989-90 beginning postsecondary students who began in less-than-2-year institutions according to overall persistence and attainment of highest degree as of spring 1994, by persistence risk factors when they began at first institution

|  | Highest degree attained |  |  |  | Overall <br> persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | $\begin{aligned} & \text { Associate's } \\ & \begin{array}{c} \text { degree } \\ \hline \end{array} \end{aligned}$ | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \end{gathered}$ | Attained degree | No degree, enrolled | $\begin{gathered} \text { No degree, } \\ \text { not } \\ \text { enrolled } \\ \hline \end{gathered}$ |
|  | Students who began in less-than-2-year institutions |  |  |  |  |  |  |
| Total | 38.0 | 58.3 | 2.8 | 0.9 | 62.0 | 2.5 | 35.5 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |
| None | 24.3 | 71.1 | 2.2 | 2.4 | 75.7 | 0 | 24.3 |
| One | 52.5 | 42.0 | 4.0 | 1.5 | 47.5 | 3.8 | 48.7 |
| Two | 30.8 | 61.1 | 8.1 | 0 | 69.2 | 2.8 | 28.0 |
| Three or more | 42.0 | 56.8 | 0.7 | 0.6 | 58.0 | 2.9 | 39.0 |
| High school diploma or equivalency status |  |  |  |  |  |  |  |
| High school diploma | 36.6 | 59.0 | 3.4 | 1.0 | 63.4 | 2.2 | 34.5 |
| GED or high school equivalent | 43.4 | 55.4 | 0.4 | 0.8 | 56.6 | 3.7 | 39.6 |
| Delayed postsecondary enrollment |  |  |  |  |  |  |  |
| Did not delay | 30.1 | 64.1 | 3.6 | 2.2 | 69.9 | 1.7 | 28.4 |
| Delayed | 41.3 | 55.9 | 2.4 | 0.4 | 58.7 | 2.8 | 38.5 |
| Attendance status when began at first institution |  |  |  |  |  |  |  |
| Full time | 33.5 | 62.1 | 3.4 | 1.0 | 66.5 | 1.4 | 32.1 |
| Part time | 41.0 | 57.4 | 0.8 | 0.8 | 59.0 | 6.7 | 34.4 |
| Dependency status when began at first institution |  |  |  |  |  |  |  |
| Dependent | 32.2 | 64.0 | 2.0 | 1.8 | 67.8 | 3.2 | 29.0 |
| Independent | 38.7 | 57.4 | 3.3 | 0.6 | 61.3 | 1.8 | 37.0 |
| Number of children when began at first institution |  |  |  |  |  |  |  |
| None | 34.6 | 60.0 | 4.3 | 1.1 | 65.4 | 2.7 | 31.9 |
| One or more | 43.7 | 54.6 | 1.0 | 0.8 | 56.3 | 2.7 | 40.9 |
| Single parent status when began at first institution |  |  |  |  |  |  |  |
| Not a single parent | 35.5 | 59.9 | 3.5 | 1.1 | 64.5 | 2.3 | 33.2 |
| Single parent | 46.6 | 50.8 | 1.7 | 0.9 | 53.4 | 3.0 | 43.7 |
| Worked full time while enrolled when began at first institution first institution |  |  |  |  |  |  |  |
| Did not work full time | 35.2 | 60.2 | 3.5 | 1.1 | 64.8 | 1.3 | 33.9 |
| Worked full time | 43.0 | 55.9 | 0.6 | 0.6 | 57.0 | 6.7 | 36.3 |

${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{2}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

## Section 3

Overall Persistence and Attainment of First Degree - Total

Table 3.1-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of first degree as of spring 1994, by first institution attended, first degree working toward, and highest degree attained

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 3.2-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of first degree as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment

|  | First degree attained |  |  |  | Overall <br> persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | $\begin{aligned} & \text { Associate's } \\ & \text { degree } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \end{gathered}$ | Attained degree | No degree, enrolled | $\begin{gathered} \hline \text { No degree, } \\ \text { not } \\ \text { enrolled } \\ \hline \end{gathered}$ |
| Total | 50.0 | 13.5 | 13.1 | 23.3 | 50.0 | 13.3 | 36.8 |
| Number of months enrolled through first degree* |  |  |  |  |  |  |  |
| Less than 12 months | 72.6 | 26.4 | 0.9 | 0.2 | 27.5 | 0.6 | 72.0 |
| 12-24 months | 53.7 | 21.1 | 23.4 | 1.8 | 46.3 | 8.2 | 45.5 |
| 25-36 months | 39.8 | 7.8 | 26.9 | 25.5 | 60.2 | 10.5 | 29.3 |
| 37-48 months | 31.2 | 1.9 | 9.4 | 57.5 | 68.8 | 22.6 | 8.6 |
| More than 48 months | 49.7 | 1.0 | 2.9 | 46.4 | 50.3 | 45.5 | 4.2 |
| Intensity of enrollment through first degree* |  |  |  |  |  |  |  |
| Exclusively part time | 81.3 | 16.7 | 1.4 | 0.6 | 18.7 | 6.4 | 74.9 |
| Mixed | 46.4 | 9.8 | 16.7 | 27.0 | 53.6 | 20.7 | 25.7 |
| Exclusively full time | 38.8 | 16.0 | 14.9 | 30.2 | 61.2 | 8.4 | 30.5 |
| Number of institutions attended through first degree ${ }^{*}$ |  |  |  |  |  |  |  |
| One | 50.8 | 12.5 | 13.8 | 22.8 | 49.2 | 8.3 | 42.5 |
| More than one | 48.8 | 15.0 | 12.1 | 24.0 | 51.2 | 20.9 | 28.0 |
| Enrollment continuity through first degree ${ }^{*}$ |  |  |  |  |  |  |  |
| Continuously enrolled | 43.9 | 13.8 | 14.3 | 28.1 | 56.1 | 8.4 | 35.4 |
| Not continuously enrolled | 64.9 | 12.8 | 10.4 | 11.9 | 35.1 | 24.8 | 40.1 |
| Transfer status through first degreê |  |  |  |  |  |  |  |
| Did not transfer | 48.2 | 11.5 | 13.9 | 26.4 | 51.8 | 9.0 | 39.2 |
| Transferred | 54.7 | 18.4 | 11.3 | 15.6 | 45.3 | 23.8 | 30.9 |
| Academic year of last enrollment |  |  |  |  |  |  |  |
| 1989-90 | 84.6 | 15.4 | 0 | 0 | 15.4 | $\dagger$ | 84.6 |
| 1990-91 | 56.5 | 34.7 | 8.8 | 0 | 43.5 | $\dagger$ | 56.5 |
| 1991-92 | 57.0 | 17.9 | 18.7 | 6.4 | 43.0 | $\dagger$ | 57.0 |
| 1992-93 | 19.0 | 6.3 | 13.9 | 60.8 | 80.9 | $\dagger$ | 19.0 |
| 1993-94 | 44.1 | 8.3 | 17.6 | 30.1 | 55.9 | 31.7 | 12.4 |
| Transfer status and enrollment continuity through first degreê |  |  |  |  |  |  |  |
| Did not transfer, continuously enrolled | 44.2 | 13.1 | 14.3 | 28.4 | 55.8 | 5.4 | 38.8 |
| Did not transfer, not continuously enrolled | 64.4 | 5.2 | 12.1 | 18.3 | 35.6 | 23.6 | 40.8 |
| Transferred, continuously enrolled | 42.6 | 16.9 | 13.9 | 26.7 | 57.4 | 21.4 | 21.1 |
| Transferred, not continuously enrolled | 65.3 | 19.7 | 8.9 | 6.0 | 34.7 | 25.9 | 39.4 |

*Through first degree (if any) or last enrollment.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 3.3-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of first degree as of spring 1994, by demographic characteristics

|  | First degree attained |  |  |  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's degree | $\begin{gathered} \text { Bachelor's } \\ \text { degree } \end{gathered}$ | Attained degree | No degree, enrolled | $\begin{gathered} \text { No degree, } \\ \text { not } \\ \text { enrolled } \\ \hline \end{gathered}$ |
| Total | 50.0 | 13.5 | 13.1 | 23.3 | 50.0 | 13.3 | 36.8 |
| Gender |  |  |  |  |  |  |  |
| Male | 54.0 | 11.6 | 11.8 | 22.5 | 46.0 | 15.6 | 38.4 |
| Female | 46.6 | 15.1 | 14.3 | 24.0 | 53.4 | 11.2 | 35.4 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 42.2 | 7.9 | 15.4 | 34.5 | 57.8 | 14.6 | 27.6 |
| 19 years | 59.2 | 16.0 | 12.6 | 12.2 | 40.8 | 15.6 | 43.6 |
| 20-29 years | 62.3 | 25.3 | 9.1 | 3.3 | 37.7 | 10.2 | 52.1 |
| 30 years or older | 67.0 | 25.0 | 6.6 | 1.4 | 33.0 | 7.2 | 59.8 |
| Socioeconomic status |  |  |  |  |  |  |  |
| Lowest quartile | 62.1 | 23.4 | 9.4 | 5.1 | 37.9 | 9.0 | 53.1 |
| Middle quartiles | 54.6 | 15.9 | 12.7 | 16.8 | 45.4 | 14.4 | 40.2 |
| Highest quartile | 40.4 | 7.2 | 14.9 | 37.5 | 59.6 | 13.5 | 26.9 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | 49.5 | 22.8 | 11.9 | 15.8 | 50.5 | 21.5 | 28.0 |
| Asian/Pacific Islander | 45.4 | 11.4 | 8.5 | 34.7 | 54.6 | 19.8 | 25.6 |
| Black, non-Hispanic | 58.2 | 17.0 | 9.5 | 15.3 | 41.8 | 13.5 | 44.7 |
| Hispanic | 55.0 | 16.1 | 15.1 | 13.8 | 45.0 | 18.7 | 36.3 |
| White, non-Hispanic | 48.8 | 12.9 | 13.6 | 24.8 | 51.2 | 12.3 | 36.5 |
| Marital status when began at first institution |  |  |  |  |  |  |  |
| Not married | 46.9 | 11.9 | 14.1 | 27.0 | 53.1 | 14.1 | 32.8 |
| Married | 64.9 | 22.9 | 9.3 | 3.0 | 35.1 | 7.7 | 57.2 |
| Separated | 59.0 | 37.4 | 2.5 | 1.1 | 41.0 | 1.2 | 57.7 |
| Parental education |  |  |  |  |  |  |  |
| Less than high school diploma | 59.5 | 24.6 | 7.8 | 8.1 | 40.5 | 9.3 | 50.3 |
| High school diploma | 54.7 | 16.1 | 14.4 | 14.9 | 45.3 | 11.1 | 43.5 |
| Some postsecondary | 49.4 | 11.8 | 14.6 | 24.2 | 50.6 | 14.5 | 34.9 |
| Bachelor's or higher | 41.2 | 7.2 | 13.6 | 38.1 | 58.8 | 16.9 | 24.3 |
| Dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent | 45.2 | 9.7 | 14.9 | 30.2 | 54.8 | 14.4 | 30.8 |
| Independent | 64.2 | 24.4 | 7.9 | 3.5 | 35.8 | 10.0 | 54.1 |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |  |
| Less than \$20,000 | 52.6 | 12.4 | 15.5 | 19.5 | 47.4 | 14.7 | 37.9 |
| \$20,000-39,999 | 48.8 | 10.9 | 14.5 | 25.8 | 51.2 | 14.2 | 34.6 |
| \$40,000-59,999 | 42.8 | 9.8 | 15.8 | 31.6 | 57.2 | 13.8 | 29.0 |
| \$60,000 or more | 35.3 | 5.2 | 13.6 | 45.9 | 64.8 | 15.2 | 20.0 |
| Independent |  |  |  |  |  |  |  |
| Less than \$10,000 | 57.0 | 28.8 | 9.4 | 4.9 | 43.0 | 9.4 | 47.7 |
| \$10,000-19,999 | 66.6 | 23.3 | 6.8 | 3.3 | 33.4 | 11.0 | 55.6 |
| \$20,000 or more | 71.6 | 19.6 | 7.0 | 1.8 | 28.4 | 10.1 | 61.5 |

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

## Section 4

Overall Persistence and Attainment Including Transfer Status

Table 4.1-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, including transfer status, by first institution attended, first degree working toward, and first degree attained

|  | Did not transfer |  |  | Transferred from first institution |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Attained degree at first institution | $\begin{gathered} \text { No } \\ \text { degree, } \\ \text { enrolled } \\ \text { at first } \\ \text { institution } \end{gathered}$ | No degree, left PSE ${ }^{2}$ from first institution | Attained degree elsewhere | No degree, enrolled elsewhere | No degree, left PSE ${ }^{2}$ after transfer |
| Total | 36.9 | 6.4 | 27.9 | 13.0 | 6.8 | 8.9 |
| Level and control of first institution 4 -year |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Public | 41.8 | 11.6 | 18.9 | 13.1 | 6.8 | 7.9 |
| Private, not-for-profit | 57.7 | 2.3 | 11.2 | 14.2 | 6.2 | 8.4 |
| Private, for-profit | - | - | - | - | - | - |
| 2-year |  |  |  |  |  |  |
| Public | 22.2 | 6.4 | 38.7 | 14.5 | 8.3 | 9.9 |
| Private, not-for-profit | 41.3 | 0.3 | 16.3 | 10.9 | 12.2 | 19.0 |
| Private, for-profit | 41.2 | 0.5 | 35.3 | 10.9 | 1.0 | 11.1 |
| Less-than-2-year |  |  |  |  |  |  |
| Public | 44.7 | 0 | 35.4 | 10.2 | 1.6 | 8.1 |
| Private, not-for-profit | 59.4 | 0 | 17.0 | 3.4 | 14.9 | 5.4 |
| Private, for-profit | 60.0 | 0 | 28.9 | 4.0 | 2.1 | 5.1 |
| Level of first institution |  |  |  |  |  |  |
| 4 -year | 47.0 | 8.6 | 16.4 | 13.4 | 6.6 | 8.0 |
| 2-year | 24.3 | 5.7 | 37.7 | 14.1 | 7.9 | 10.3 |
| Less-than-2-year | 56.7 | 0 | 29.8 | 5.3 | 2.5 | 5.7 |
| Control of first institution |  |  |  |  |  |  |
| Public | 30.3 | 8.2 | 31.0 | 13.9 | 7.6 | 9.1 |
| Private, not-for-profit | 56.0 | 2.1 | 11.9 | 13.6 | 7.1 | 9.4 |
| Private, for-profit | 53.0 | 0.2 | 31.2 | 6.5 | 1.7 | 7.3 |
| Degree working toward at first institution |  |  |  |  |  |  |
| None | 3.2 | 2.0 | 56.3 | 14.0 | 11.2 | 13.3 |
| Certificate | 47.0 | 1.8 | 36.9 | 7.7 | 2.1 | 4.5 |
| Associate's degree | 29.0 | 5.2 | 34.9 | 14.1 | 6.9 | 9.9 |
| Bachelor's degree | 42.8 | 9.2 | 16.8 | 14.0 | 7.8 | 9.4 |
| First type of degree attained |  |  |  |  |  |  |
| None | $\dagger$ | 12.8 | 55.7 | $\dagger$ | 13.7 | 17.8 |
| Certificate | 60.8 | $\dagger$ | $\dagger$ | 39.2 | $\dagger$ | $\dagger$ |
| Associate's degree | 75.4 | $\dagger$ | $\dagger$ | 24.6 | $\dagger$ | $\dagger$ |
| Bachelor's degree | 80.7 | $\pm$ | $\pm$ | 19.3 | $\dagger$ | $\pm$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Students who attained at first institution and transferred after degree not classified as transfers.
${ }^{2}$ Postsecondary education.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 4.2-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, including transfer status, by attendance patterns through first degree attained (if any) or last enrollment

|  | Did not transfer |  |  | $\underline{\text { Transferred from first institution }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Attained degree at first institution | No degree, enrolled at first institution | No degree, left PSE ${ }^{2}$ from first institution | Attained degree elsewhere | No degree, enrolled elsewhere | $\begin{gathered} \text { No } \\ \text { degree, } \\ \text { left PSE }{ }^{2} \\ \text { after } \\ \text { transfer } \\ \hline \end{gathered}$ |
| Total | 36.9 | 6.4 | 27.9 | 13.0 | 6.8 | 8.9 |
| Number of months enrolled through first degree* |  |  |  |  |  |  |
| Less than 12 months | 20.5 | 0 | 66.3 | 7.0 | 0.6 | 5.7 |
| 12-24 months | 32.3 | 3.4 | 27.4 | 13.9 | 4.8 | 18.1 |
| 25-36 months | 43.5 | 4.6 | 16.9 | 16.8 | 5.9 | 12.4 |
| 37-48 months | 53.1 | 12.3 | 5.1 | 15.7 | 10.3 | 3.6 |
| More than 48 months | 37.5 | 21.4 | 1.7 | 12.8 | 24.1 | 2.5 |
| Intensity of enrollment through first degree |  |  |  |  |  |  |
| Exclusively part time | 15.4 | 4.2 | 67.7 | 3.3 | 2.3 | 7.1 |
| Mixed | 35.6 | 9.1 | 13.9 | 18.0 | 11.6 | 11.8 |
| Exclusively full time | 48.9 | 4.5 | 23.9 | 12.3 | 3.8 | 6.6 |
| Number of institutions attended through first degree* |  |  |  |  |  |  |
| One | 49.2 | 8.3 | 42.5 | $\dagger$ | $\dagger$ | $\dagger$ |
| More than one | 18.2 | 3.5 | 5.4 | 33.0 | 17.4 | 22.5 |
| Enrollment continuity through first degree* |  |  |  |  |  |  |
| Continuously enrolled | 45.3 | 4.4 | 31.4 | 10.9 | 4.1 | 4.0 |
| Not continuously enrolled | 17.0 | 11.3 | 19.5 | 18.1 | 13.5 | 20.6 |
| Transfer status through first degreể |  |  |  |  |  |  |
| Did not transfer | 51.8 | 9.0 | 39.2 | $\dagger$ | $\dagger$ | $\dagger$ |
| Transferred | $\dagger$ | $\dagger$ | $\dagger$ | 45.3 | 23.8 | 30.9 |
| Academic year of last enrollment |  |  |  |  |  |  |
| 1989-90 | 14.9 | $\dagger$ | 83.7 | 0.5 | $\dagger$ | 0.9 |
| 1990-91 | 36.1 | $\dagger$ | 44.2 | 7.4 | $\dagger$ | 12.3 |
| 1991-92 | 27.9 | $\dagger$ | 32.2 | 15.1 | $\dagger$ | 24.8 |
| 1992-93 | 67.4 | $\dagger$ | 10.4 | 13.5 | $\dagger$ | 8.7 |
| 1993-94 | 37.2 | 15.3 | 6.0 | 18.8 | 16.4 | 6.4 |
| Transfer status and enrollment continuity through first degreê |  |  |  |  |  |  |
| Did not transfer, continuously enrolled | 55.8 | 5.4 | 38.8 | $\dagger$ | $\dagger$ | $\dagger$ |
| Did not transfer, not continuously enrolled | 35.6 | 23.6 | 40.8 | $\dagger$ | $\dagger$ | $\dagger$ |
| Transferred, continuously enrolled Transferred, not continuously | $\dagger$ | $\dagger$ | $\dagger$ | 57.4 | 21.4 | 21.1 |
| enrolled | $\pm$ | $\dagger$ | $\dagger$ | 34.7 | 25.9 | 39.4 |

[^19]SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 4.3-Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, including transfer status, by demographic characteristics

|  | Did not transfer |  |  | $\underline{\text { Transferred from first institution }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Attained degree at first institution | No degree, enrolled at first institution | No degree, left PSE ${ }^{2}$ from first institution | Attained degree elsewhere | No degree, enrolled elsewhere | No degree, left PSE ${ }^{2}$ after transfer |
| Total | 36.9 | 6.4 | 27.9 | 13.0 | 6.8 | 8.9 |
| Gender |  |  |  |  |  |  |
| Male | 32.8 | 7.9 | 28.3 | 13.2 | 7.7 | 10.1 |
| Female | 40.5 | 5.1 | 27.5 | 12.9 | 6.1 | 7.9 |
| Age when began at first institution |  |  |  |  |  |  |
| 18 years or younger | 43.0 | 6.5 | 18.8 | 14.9 | 8.1 | 8.8 |
| 19 years | 28.4 | 5.3 | 33.9 | 12.4 | 10.3 | 9.6 |
| 20-29 years | 28.6 | 7.6 | 42.5 | 9.1 | 2.7 | 9.6 |
| 30 years or older | 24.2 | 5.2 | 52.6 | 8.8 | 2.0 | 7.1 |
| Socioeconomic status |  |  |  |  |  |  |
| Lowest quartile | 30.2 | 6.2 | 45.7 | 7.7 | 2.8 | 7.4 |
| Middle quartiles | 33.2 | 7.1 | 30.9 | 12.2 | 7.3 | 9.3 |
| Highest quartile | 43.7 | 5.6 | 17.9 | 15.9 | 7.9 | 9.0 |
| Race-ethnicity of student |  |  |  |  |  |  |
| American Indian/Alaskan Native | 40.5 | 21.5 | 15.7 | 10.0 | 0 | 12.3 |
| Asian/Pacific Islander | 44.8 | 10.6 | 14.9 | 9.8 | 9.2 | 10.7 |
| Black, non-Hispanic | 29.1 | 7.3 | 33.1 | 12.7 | 6.2 | 11.6 |
| Hispanic | 28.6 | 11.8 | 25.5 | 16.4 | 6.8 | 10.8 |
| White, non-Hispanic | 38.3 | 5.4 | 28.3 | 12.9 | 6.9 | 8.2 |
| Marital status when began at first institution |  |  |  |  |  |  |
| Not married | 38.8 | 6.6 | 23.8 | 14.3 | 7.5 | 9.0 |
| Married | 28.0 | 5.9 | 52.2 | 7.2 | 1.8 | 5.1 |
| Separated | 28.8 | 0.7 | 52.9 | 12.2 | 0.5 | 4.8 |
| Parental education |  |  |  |  |  |  |
| Less than high school diploma | 29.8 | 4.9 | 41.8 | 10.8 | 4.3 | 8.5 |
| High school diploma | 33.2 | 5.9 | 33.6 | 12.1 | 5.3 | 9.9 |
| Some postsecondary | 39.8 | 7.1 | 25.5 | 10.8 | 7.4 | 9.4 |
| Bachelor's or higher | 42.7 | 7.2 | 16.0 | 16.1 | 9.7 | 8.3 |
| Dependency status in 1989-90 |  |  |  |  |  |  |
| Dependent | 40.1 | 6.6 | 21.5 | 14.7 | 7.8 | 9.3 |
| Independent | 27.8 | 6.0 | 46.5 | 8.1 | 4.0 | 7.7 |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |
| Less than \$20,000 | 33.5 | 7.8 | 29.0 | 14.0 | 6.8 | 8.9 |
| \$20,000-39,999 | 36.5 | 5.7 | 23.6 | 14.7 | 8.5 | 11.1 |
| \$40,000-59,999 | 44.7 | 7.6 | 18.9 | 12.5 | 6.1 | 10.1 |
| \$60,000 or more | 46.4 | 5.2 | 13.8 | 18.4 | 10.0 | 6.2 |
| Independent |  |  |  |  |  |  |
| Less than \$10,000 | 31.0 | 5.4 | 37.3 | 12.0 | 4.0 | 10.4 |
| \$10,000-19,999 | 31.8 | 5.4 | 50.6 | 1.6 | 5.6 | 5.0 |
| \$20,000 or more | 20.1 | 7.4 | 55.1 | 8.3 | 2.8 | 6.4 |

[^20]SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

## Section 5

## Attainment and Retention at the First Institution

Table 5.1—Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by first institution attended, first degree working toward, and highest degree attained

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
*At any institution.
SOURCE:U.S.Departmentof Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 5.2—Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by attendance patterns through first degree attained (if any) or last enrollment

|  | First degree attained at the first institution |  |  |  | Attainment and retention at the first institution |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's Bachelor's degree degree |  | Attained degree | No degree |  |  |
|  |  |  |  |  | Enrolled | Not enrolled | Transferred |
| Total | 63.1 | 8.2 | 9.9 | 18.8 |  | 36.9 | 6.4 | 27.9 | 28.8 |
| Number of months enrolled through first degreé |  |  |  |  |  |  |  |  |
| Less than 12 months | 79.5 | 19.8 | 0.7 | 0 | 20.5 | 0 | 66.3 | 13.2 |
| 12-24 months | 67.7 | 11.8 | 19.4 | 1.1 | 32.3 | 3.4 | 27.4 | 36.8 |
| 25-36 months | 56.5 | 1.7 | 19.8 | 22.0 | 43.5 | 4.6 | 16.9 | 35.0 |
| 37-48 months | 46.9 | 0.6 | 5.7 | 46.8 | 53.1 | 12.3 | 5.1 | 29.5 |
| More than 48 months | 62.5 | 0.8 | 2.6 | 34.1 | 37.5 | 21.4 | 1.7 | 39.5 |
| Intensity of enrollment through first degree* |  |  |  |  |  |  |  |  |
| Exclusively part time | 84.6 | 13.8 | 1.2 | 0.5 | 15.4 | 4.2 | 67.7 | 12.7 |
| Mixed | 64.4 | 2.4 | 12.2 | 21.0 | 35.6 | 9.1 | 13.9 | 41.4 |
| Exclusively full time | 51.1 | 11.9 | 11.6 | 25.4 | 48.9 | 4.5 | 23.9 | 22.6 |
| Enrollment continuity through first degree* |  |  |  |  |  |  |  |  |
| Continuously enrolled | 54.7 | 10.6 | 11.6 | 23.0 | 45.3 | 4.4 | 31.4 | 18.9 |
| Not continuously enrolled | 83.0 | 2.5 | 5.8 | 8.7 | 17.0 | 11.3 | 19.5 | 52.3 |
| Transfer status through first degree* |  |  |  |  |  |  |  |  |
| Did not transfer | 48.2 | 11.5 | 13.9 | 26.4 | 51.8 | 9.0 | 39.2 | $\dagger$ |
| Transferred | 100.0 | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | 100.0 |
| Academic year of last enrollment |  |  |  |  |  |  |  |  |
| 1989-90 | 85.1 | 14.9 | 0 | 0 | 14.9 | $\dagger$ | 83.7 | 1.4 |
| 1990-91 | 63.9 | 27.4 | 8.7 | 0 | 36.1 | $\dagger$ | 44.2 | 19.7 |
| 1991-92 | 72.1 | 7.5 | 15.3 | 5.2 | 27.9 | $\dagger$ | 32.2 | 39.9 |
| 1992-93 | 32.6 | 2.3 | 10.6 | 54.6 | 67.4 | $\dagger$ | 10.4 | 22.2 |
| 1993-94 | 62.8 | 2.8 | 12.2 | 22.2 | 37.2 | 15.3 | 6.0 | 41.5 |
| Transfer status and enrollment continuity through first degreê |  |  |  |  |  |  |  |  |
| Did not transfer, continuou enrolled | 44.2 | 13.1 | 14.3 | 28.4 | 55.8 | 5.4 | 38.8 | $\dagger$ |
| Did not transfer, not continuously enrolled | 64.4 | 5.2 | 12.1 | 18.3 | 35.6 | 23.6 | 40.8 | $\dagger$ |
| Transferred, continuously enrolled | 100.0 | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | 100.0 |
| Transferred, not continuou enrolled | 100.0 | $\dagger$ | $\dagger$ | $\dagger$ | $\pm$ | $\dagger$ | $\dagger$ | 100.0 |

*Through first degree (if any) or last enrollment.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.


|  | First degree attained at the first institution |  |  |  | Attainment and retention at the first institution |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificat | Associate's Bachelor's degree degree |  | Attained degree | No degree |  | Transferred |
|  |  |  |  |  |  |  |  |  |
| Total | 63.1 | 8.2 | 9.9 | 18.8 | 36.9 | 6.4 | 27.9 | 28.8 |
| Gender |  |  |  |  |  |  |  |  |
| Male | 67.2 | 6.7 | 8.3 | 17.8 | 32.8 | 7.9 | 28.3 | 31.0 |
| Female | 59.5 | 9.5 | 11.3 | 19.7 | 40.5 | 5.1 | 27.5 | 26.8 |
| Age when began at first institution |  |  |  |  |  |  |  |  |
| 18 years or younger | 57.0 | 3.8 | 11.4 | 27.8 | 43.0 | 6.5 | 18.8 | 31.8 |
| 19 years | 71.6 | 9.0 | 8.9 | 10.6 | 28.4 | 5.3 | 33.9 | 32.3 |
| 20-29 years | 71.4 | 18.2 | 7.8 | 2.5 | 28.6 | 7.6 | 42.5 | 21.4 |
| 30 years or older | 75.8 | 17.9 | 5.3 | 1.0 | 24.2 | 5.2 | 52.6 | 18.0 |
| Socioeconomic status |  |  |  |  |  |  |  |  |
| Lowest quartile | 69.8 | 18.5 | 7.6 | 4.1 | 30.2 | 6.2 | 45.7 | 17.9 |
| Middle quartiles | 66.8 | 9.8 | 10.4 | 13.0 | 33.2 | 7.1 | 30.9 | 28.8 |
| Highest quartile | 56.3 | 2.6 | 10.1 | 30.9 | 43.7 | 5.6 | 17.9 | 32.8 |
| Race-ethnicity of student |  |  |  |  |  |  |  |  |
| American Indian/Alaskan |  |  |  |  |  |  |  |  |
| Native | 59.5 | 16.7 | 10.0 | 13.8 | 40.5 | 21.5 | 15.7 | 22.3 |
| Asian/Pacific Islander | 55.2 | 7.7 | 7.3 | 29.8 | 44.8 | 10.6 | 14.9 | 29.6 |
| Black, non-Hispanic | 70.9 | 10.3 | 6.2 | 12.6 | 29.1 | 7.3 | 33.1 | 30.5 |
| Hispanic | 71.4 | 6.0 | 11.4 | 11.2 | 28.6 | 11.8 | 25.5 | 34.0 |
| White, non-Hispanic | 61.7 | 8.1 | 10.3 | 19.9 | 38.3 | 5.4 | 28.3 | 28.0 |
| Marital status when began at first institution |  |  |  |  |  |  |  |  |
| Not married | 61.2 | 6.6 | 10.4 | 21.9 | 38.8 | 6.6 | 23.8 | 30.8 |
| Married | 72.0 | 17.6 | 8.5 | 1.9 | 28.0 | 5.9 | 52.2 | 14.0 |
| Separated | 71.2 | 26.4 | 1.8 | 0.6 | 28.8 | 0.7 | 52.9 | 17.5 |
| Parental education |  |  |  |  |  |  |  |  |
| Less than high school diploma | 70.2 | 16.4 | 7.0 | 6.4 | 29.8 | 4.9 | 41.8 | 23.5 |
| High school diploma | 66.8 | 16.4 10.8 | 11.2 | 6.4 11.2 | 29.8 33.2 | 4.9 5.9 | 33.6 | 27.3 |
| Some postsecondary | 60.2 | 7.6 | 12.0 | 20.2 | 39.8 | 7.1 | 25.5 | 27.6 |
| Bachelor's or higher | 57.3 | 2.5 | 9.1 | 31.0 | 42.7 | 7.2 | 16.0 | 34.1 |
| Dependency status in 1989-90 |  |  |  |  |  |  |  |  |
| Dependent | 59.9 | 4.7 | 11.0 | 24.4 | 40.1 | 6.6 | 21.5 | 31.9 |
| Independent | 72.2 | 18.4 | 6.6 | 2.8 | 27.8 | 6.0 | 46.5 | 19.8 |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |  |  |
| Less than \$20,000 | 66.5 | 7.3 | 11.3 | 14.9 | 33.5 | 7.8 | 29.0 | 29.6 |
| \$20,000-39,999 | 63.5 | 4.9 | 11.9 | 19.8 | 36.5 | 5.7 | 23.6 | 34.2 |
| \$40,000-59,999 | 55.3 | 4.4 | 12.8 | 27.5 | 44.7 | 7.6 | 18.9 | 28.8 |
| \$60,000 or more | 53.6 | 2.2 | 7.2 | 37.0 | 46.4 | 5.2 | 13.8 | 34.6 |
| Independent |  |  |  |  |  |  |  |  |
| Less than \$10,000 | 69.0 | 19.8 | 7.2 | 4.0 | 31.0 | 5.4 | 37.3 | 26.4 |
| \$10,000-19,999 | 68.2 | 22.5 | 6.2 | 3.2 | 31.8 | 5.4 | 50.6 | 12.1 |
| \$20,000 or more | 79.8 | 13.0 | 6.1 | 1.0 | 20.1 | 7.4 | 55.1 | 17.4 |

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 5.4—Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by persistence risk factors when they began at first institution

|  | First degree attained at the first institution |  |  |  | Attainment and retention at the first institution |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificat | Associate e degree | Bachelor's degree | Attained degree | Enrolled | Not enrolled | Transferred |
| Total | 63.1 | 8.2 | 9.9 | 18.8 | 36.9 | 6.4 | 27.9 | 28.8 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |  |
| None | 52.7 | 3.8 | 11.6 | 32.0 | 47.3 | 7.1 | 15.0 | 30.5 |
| One | 64.1 | 4.6 | 11.6 | 19.7 | 35.9 | 4.7 | 25.6 | 33.8 |
| Two | 72.3 | 14.7 | 7.9 | 5.1 | 27.8 | 4.8 | 37.9 | 29.5 |
| Three or more | 75.8 | 16.2 | 6.3 | 1.6 | 24.2 | 7.4 | 47.5 | 20.9 |
| High school diploma or equivalency status |  |  |  |  |  |  |  |  |
| High school diploma | 62.5 | 7.3 | 10.2 | 20.0 | 37.5 | 6.7 | 26.6 | 29.1 |
| GED or high school equivalent ${ }^{2}$ | 71.4 | 21.7 | 4.8 | 2.0 | 28.6 | 1.7 | 46.5 | 23.2 |
| Delayed postsecondary enrollment |  |  |  |  |  |  |  |  |
| Did not delay | 58.0 | 4.0 | 11.4 | 26.6 | 42.0 | 6.5 | 19.5 | 32.0 |
| Delayed | 73.5 | 16.9 | 6.8 | 2.8 | 26.5 | 6.3 | 45.3 | 22.0 |
| Attendance status when began at first institution |  |  |  |  |  |  |  |  |
| Full time | 55.6 | 7.8 | 11.4 | 25.1 | 44.4 | 6.3 | 20.1 | 29.2 |
| Part time | 83.0 | 7.4 | 7.6 | 2.0 | 17.0 | 8.1 | 45.4 | 29.4 |
| Dependency status when began at first institution |  |  |  |  |  |  |  |  |
| Dependent | 56.5 | 4.4 | 11.3 | 27.8 | 43.5 | 6.0 | 18.8 | 31.7 |
| Independent | 73.3 | 14.6 | 7.6 | 4.5 | 26.6 | 7.3 | 41.7 | 24.3 |
| Number of children when began at first institution |  |  |  |  |  |  |  |  |
| None | 61.5 | 6.0 | 10.4 | 22.0 | 38.5 | 6.8 | 24.3 | 30.4 |
| One or more | 71.9 | 20.4 | 6.4 | 1.3 | 28.1 | 4.9 | 48.2 | 18.8 |
| Single parent status when began at first institution |  |  |  |  |  |  |  |  |
| Not a single parent | 62.1 | 7.1 | 10.4 | 20.4 | 37.9 | 6.7 | 26.5 | 28.9 |
| Single parent | 71.5 | 23.6 | 3.4 | 1.5 | 28.5 | 2.8 | 46.5 | 22.1 |
| Worked full time while enrolled when began at first institution |  |  |  |  |  |  |  |  |
| Did not work full time | 59.4 | 8.7 | 10.6 | 21.4 | 40.6 | 6.2 | 23.1 | 30.1 |
| Worked full time | 71.4 | 7.5 | 8.1 | 12.9 | 28.6 | 7.5 | 39.2 | 24.7 |

${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{2}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National Centerfor Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 5.5—Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by social, academic, and work experiences and measure of satisfaction during the 1989-90 academic year


SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 5.6-Percentage distribution of 1989-90 beginning postsecondary students according to attainment and retention at the first institution as of spring 1994, by education financing during the 1989-90 academic year

|  | First degree attained at the first institution |  |  |  | Attainment and retention at the first institution |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | None | Certificate | Associate's Bachelor'sdegree |  | Attained degree | No degree |  |  |
|  |  |  |  |  | Enrolled | Not enrolled | Transferred |
| Total | 63.1 | 8.2 | 9.9 | 18.8 |  | 36.9 | 6.4 | 27.9 | 28.8 |
| Total costs in 1989-90 |  |  |  |  |  |  |  |  |
| Less than \$4,000 | 76.1 | 5.2 | 11.2 | 7.5 | 23.9 | 7.9 | 35.7 | 32.5 |
| \$4,000-7,999 | 61.7 | 6.3 | 10.8 | 21.3 | 38.3 | 7.3 | 24.0 | 30.3 |
| \$8,000-11,999 | 54.9 | 11.4 | 8.7 | 25.0 | 45.1 | 4.3 | 25.4 | 25.2 |
| \$12,000 or more | 39.4 | 16.7 | 6.0 | 37.9 | 60.6 | 2.9 | 16.5 | 19.9 |
| Total aid amount in 1989-90 |  |  |  |  |  |  |  |  |
| None | 70.2 | 5.5 | 10.7 | 13.6 | 29.8 | 8.0 | 30.2 | 32.0 |
| Less than \$2,000 | 62.8 | 7.9 | 12.5 | 16.7 | 37.2 | 4.7 | 32.2 | 25.9 |
| \$2,000-4,999 | 56.2 | 12.7 | 8.0 | 23.1 | 43.8 | 4.9 | 25.4 | 25.8 |
| \$5,000-6,999 | 44.0 | 19.6 | 7.1 | 29.3 | 56.0 | 4.9 | 17.8 | 21.4 |
| \$7,000 or more | 38.3 | 8.4 | 3.9 | 49.5 | 61.8 | 2.2 | 13.2 | 22.9 |
| Total federal aid amount in 1989-90 |  |  |  |  |  |  |  |  |
| None | 66.2 | 5.3 | 10.8 | 17.6 | 33.8 | 7.3 | 28.5 | 30.5 |
| Less than \$2,000 | 67.1 | 8.6 | 9.2 | 15.1 | 32.9 | 5.5 | 33.5 | 28.1 |
| \$2,000-4,999 | 52.7 | 15.3 | 7.4 | 24.6 | 47.3 | 4.4 | 24.3 | 23.9 |
| \$5,000-6,999 | 39.6 | 30.1 | 6.9 | 23.5 | 60.4 | 2.0 | 17.1 | 20.4 |
| \$7,000 or more | 33.1 | 22.3 | 6.9 | 37.6 | 66.9 | 1.3 | 12.6 | 19.2 |
| Total loan amount in 1989-90 |  |  |  |  |  |  |  |  |
| None | 66.1 | 6.3 | 10.7 | 16.9 | 33.9 | 7.2 | 29.1 | 29.8 |
| Less than \$1,000 | 59.2 | 4.0 | 8.3 | 28.6 | 40.8 | 4.2 | 28.2 | 26.8 |
| \$1,000-1,999 | 60.2 | 6.4 | 5.9 | 27.5 | 39.8 | 4.3 | 30.0 | 25.9 |
| \$2,000-2,999 | 47.4 | 19.4 | 7.1 | 26.0 | 52.6 | 3.1 | 20.3 | 24.0 |
| \$3,000 or more | 43.9 | 24.5 | 5.8 | 25.9 | 56.1 | 1.8 | 18.3 | 23.8 |
| Total grant amount in 1989-90 |  |  |  |  |  |  |  |  |
| None | 67.9 | 6.7 | 10.5 | 14.9 | 32.1 | 7.2 | 29.4 | 31.2 |
| Less than \$1,000 | 64.1 | 10.0 | 11.7 | 14.2 | 35.9 | 5.7 | 32.0 | 26.4 |
| \$1,000-1,999 | 57.4 | 13.6 | 8.9 | 20.1 | 42.6 | 4.4 | 29.4 | 23.5 |
| \$2,000-2,999 | 56.8 | 15.0 | 9.9 | 18.3 | 43.2 | 6.2 | 24.5 | 26.1 |
| \$3,000 or more | 42.5 | 4.8 | 5.1 | 47.5 | 57.5 | 4.3 | 15.0 | 23.3 |
| Aid package at first institution in 1989-90 |  |  |  |  |  |  |  |  |
| No aid | 70.3 | 5.4 | 10.7 | 13.6 | 29.7 | 8.0 | 30.1 | 32.1 |
| Grants, no loans | 55.1 | 6.3 | 12.0 | 26.6 | 44.9 | 5.8 | 25.5 | 23.9 |
| Grants and loans | 49.6 | 15.0 | 6.7 | 28.8 | 50.4 | 4.1 | 22.3 | 23.2 |
| Loans, no grants | 48.4 | 19.9 | 7.9 | 23.9 | 51.6 | 0.8 | 24.9 | 22.8 |
| Other aid | 64.6 | 8.8 | 8.3 | 18.3 | 35.4 | 5.6 | 31.8 | 27.1 |

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

## Section 6

## Persistence and Attainment of a Bachelor's Degree

Table 6.1—Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a bachelor's degree according to persistence and attainment of a bachelor's degree as of spring 1994, by institution where they began working toward the degree and type of degree attained
$\left.\begin{array}{lcccc}\hline & & \begin{array}{c}\text { Attained } \\ \text { bachelor's } \\ \text { degree }\end{array} & \begin{array}{c}\text { Still } \\ \text { enrolled } \\ \text { toward } \\ \text { bachelor's } \\ \text { degree }\end{array} & \begin{array}{c}\text { No } \\ \text { bachelor's } \\ \text { degree, } \\ \text { no longer } \\ \text { enrolled }\end{array}\end{array} \begin{array}{c}\text { Changed } \\ \text { degree } \\ \text { working } \\ \text { toward }\end{array}\right]$
-Too few cases for a reliable estimate.
${ }^{1}$ Student enrolled in a different degree or certificate program before the spring of 1994.
${ }^{2}$ Total includes cases where level and control of the institution where began working toward the degree is unknown.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 6.2—Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a bachelor's degree according to persistence and attainment of a bachelor's degree as of spring 1994, by demographic characteristics

|  | Attained bachelor's degree | Still enrolled toward bachelor's degree | No bachelor's degree, no longer enrolled | Changed degree working toward ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Total ${ }^{2}$ | 44.5 | 21.2 | 24.8 | 9.6 |
| Gender |  |  |  |  |
| Male | 39.8 | 24.4 | 27.0 | 8.9 |
| Female | 49.1 | 18.0 | 22.6 | 10.3 |
| Age when began working toward degree |  |  |  |  |
| 18 years or younger | 51.2 | 17.4 | 22.1 | 9.2 |
| 19 years | 30.3 | 26.6 | 32.9 | 10.2 |
| 20-29 years | 25.9 | 35.4 | 28.4 | 10.3 |
| 30 years or older | 13.3 | 16.7 | 53.4 | 16.6 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 23.6 | 21.7 | 39.5 | 15.2 |
| Middle quartiles | 38.2 | 24.7 | 27.4 | 9.8 |
| Highest quartile | 51.3 | 18.6 | 21.2 | 8.8 |
| Race-ethnicity of student |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - |
| Asian/Pacific Islander | 46.1 | 23.8 | 23.4 | 6.8 |
| Black, non-Hispanic | 35.2 | 24.0 | 32.5 | 8.4 |
| Hispanic | 33.3 | 25.6 | 22.8 | 18.3 |
| White, non-Hispanic | 46.4 | 20.0 | 24.5 | 9.1 |
| Marital status when began working toward degree |  |  |  |  |
| Not married | 46.2 | 20.7 | 23.7 | 9.4 |
| Married | 18.4 | 28.3 | 43.0 | 10.3 |
| Separated | - | - | - | - |
| Parental education |  |  |  |  |
| Less than high school diploma | 32.4 | 14.4 | 34.9 | 18.3 |
| High school diploma | 37.3 | 20.6 | 31.4 | 10.7 |
| Some postsecondary | 44.3 | 22.1 | 25.3 | 8.3 |
| Bachelor's or higher | 50.6 | 21.7 | 19.3 | 8.4 |
| Dependency status in 1989-90 |  |  |  |  |
| Dependent | 47.0 | 20.8 | 23.2 | 9.0 |
| Independent | 20.6 | 25.0 | 39.0 | 15.3 |
| Income and dependency status in 1989-90 |  |  |  |  |
| Dependent |  |  |  |  |
| Less than \$20,000 | 37.2 | 22.1 | 31.1 | 9.6 |
| \$20,000-39,999 | 42.7 | 24.3 | 24.3 | 8.8 |
| \$40,000-59,999 | 47.8 | 17.7 | 25.0 | 9.5 |
| \$60,000 or more | 58.0 | 19.0 | 14.7 | 8.2 |
| Independent |  |  |  |  |
| Less than \$10,000 | 22.6 | 24.8 | 34.4 | 18.1 |
| \$10,000-19,999 | 20.9 | 32.2 | 26.8 | 20.1 |
| \$20,000 or more | 16.5 | 19.8 | 57.6 | 6.2 |

-Too few cases for a reliable estimate.
${ }^{1}$ Student enrolled in a different degree or certificate program before the spring of 1994.
${ }^{2}$ Total includes cases where level and control of the institution where began working toward the degree is unknown.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 6.3-Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a bachelor's degree according to persistence and attainment of a bachelor's degree as of spring 1994, by persistence risk factors when they began working toward the degree
$\left.\begin{array}{lcccc}\hline & & \begin{array}{c}\text { Still } \\ \text { enrolled } \\ \text { toward } \\ \text { bachelor's } \\ \text { degree }\end{array} & \begin{array}{c}\text { Attained } \\ \text { bachelor's } \\ \text { degree }\end{array} & \begin{array}{c}\text { No } \\ \text { bachelor's } \\ \text { degree, } \\ \text { no longer } \\ \text { enrolled }\end{array}\end{array} \begin{array}{c}\text { Changed } \\ \text { degree } \\ \text { working } \\ \text { toward }\end{array}\right]$
${ }^{1}$ Student enrolled in a different degree or certificate program before the spring of 1994.
${ }^{2}$ Total includes cases where level and control of the institution where began working toward the degree is unknown.
${ }^{3}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{4}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

## Section 7

## Persistence and Attainment of an Associate's Degree

Table 7.1—Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward an associate's degree according to persistence and attainment of an associate's degree as of spring 1994, by institution where they began working toward the degree and type of degree attained
$\left.\begin{array}{lcccc}\hline & & \begin{array}{c}\text { Attained } \\ \text { associate's } \\ \text { degree }\end{array} & \begin{array}{c}\text { Still } \\ \text { enrolled } \\ \text { toward } \\ \text { associate's } \\ \text { degree }\end{array} & \begin{array}{c}\text { No } \\ \text { associate's } \\ \text { degree, } \\ \text { no longer } \\ \text { enrolled }\end{array}\end{array} \begin{array}{c}\text { Changed } \\ \text { degree } \\ \text { working } \\ \text { toward }\end{array}\right]$
-Too few cases for a reliable estimate.
${ }^{1}$ Student enrolled in a different degree or certificate program before the spring of 1994.
${ }^{2}$ Total includes cases where level and control of the institution where began working toward the degree is unknown.
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 7.2-Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward an associate's degree according to persistence and attainment of an associate's degree as of spring 1994, by demographic characteristics

|  | Attained associate's degree | Still enrolled toward associate's degree | No associate's degree, no longer enrolled | Changed degree working toward ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Total ${ }^{2}$ | 35.5 | 8.7 | 38.7 | 17.2 |
| Gender |  |  |  |  |
| Male | 33.4 | 7.0 | 38.1 | 21.5 |
| Female | 37.1 | 10.0 | 39.1 | 13.8 |
| Age when began working toward degree |  |  |  |  |
| 18 years or younger | 41.4 | 6.7 | 31.0 | 20.9 |
| 19 years | 25.5 | 4.8 | 47.4 | 22.3 |
| 20-29 years | 20.1 | 14.2 | 49.3 | 16.5 |
| 30 years or older | 17.2 | 14.4 | 57.4 | 11.0 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 23.7 | 11.3 | 52.7 | 12.3 |
| Middle quartiles | 31.1 | 10.3 | 40.9 | 17.8 |
| Highest quartile | 47.3 | 5.2 | 29.0 | 18.5 |
| Race-ethnicity of student |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - |
| Asian/Pacific Islander | 41.4 | 13.2 | 29.0 | 16.4 |
| Black, non-Hispanic | 25.8 | 11.0 | 44.1 | 19.1 |
| Hispanic | 34.7 | 11.7 | 37.6 | 16.0 |
| White, non-Hispanic | 36.6 | 7.8 | 38.4 | 17.1 |
| Marital status when began working toward degree |  |  |  |  |
| Not married | 33.1 | 8.7 | 37.5 | 20.7 |
| Married | 19.0 | 13.7 | 57.4 | 9.9 |
| Separated | - | - | - | - |
| Parental education |  |  |  |  |
| Less than high school diploma | 19.6 | 14.8 | 51.2 | 14.4 |
| High school diploma | 32.5 | 7.0 | 44.4 | 16.0 |
| Some postsecondary | 39.1 | 12.5 | 36.7 | 11.7 |
| Bachelor's or higher | 45.9 | 6.6 | 23.6 | 23.9 |
| Dependency status in 1989-90 |  |  |  |  |
| Dependent | 42.1 | 7.4 | 32.2 | 18.3 |
| Independent | 19.2 | 11.9 | 54.2 | 14.6 |
| Income and dependency status in 1989-90 |  |  |  |  |
| Dependent |  |  |  |  |
| Less than \$20,000 | 39.3 | 9.2 | 32.8 | 18.8 |
| \$20,000-39,999 | 37.9 | 6.0 | 35.3 | 20.8 |
| \$40,000-59,999 | 46.3 | 6.7 | 32.4 | 14.7 |
| \$60,000 or more | 49.0 | 8.7 | 24.7 | 17.6 |
| Independent |  |  |  |  |
| Less than \$10,000 | 23.4 | 10.4 | 53.6 | 12.6 |
| \$10,000-19,999 | 17.2 | 10.0 | 60.3 | 12.5 |
| \$20,000 or more | 15.9 | 15.3 | 50.0 | 18.9 |

-Too few cases for a reliable estimate.
${ }^{1}$ Student enrolled in a different degree or certificate program before the spring of 1994.
${ }^{2}$ Total includes cases where level and control of the institution where began working toward the degree is unknown.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 7.3-Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward an associate's degree according to persistence and attainment of an associate's degree as of spring 1994, by persistence risk factors when they began working toward the degree

|  | Attained associate's degree | Still enrolled toward associate's degree | No associate's degree, no longer enrolled | Changed degree working toward ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Total ${ }^{2}$ | 35.5 | 8.7 | 38.7 | 17.2 |
| Number of risk factors when began working toward degree ${ }^{3}$ |  |  |  |  |
| None | 47.8 | 8.1 | 24.8 | 19.4 |
| One | 32.7 | 6.8 | 37.9 | 22.5 |
| Two | 22.0 | 7.9 | 51.5 | 18.5 |
| Three or more | 14.2 | 13.4 | 57.1 | 15.3 |
| High school diploma or equivalency status |  |  |  |  |
| High school diploma | 37.1 | 9.0 | 37.0 | 16.8 |
| GED or high school equivalent | 14.8 | 4.8 | 59.0 | 21.4 |
| Delayed postsecondary enrollment |  |  |  |  |
| Did not delay | 45.6 | 7.7 | 28.5 | 18.2 |
| Delayed | 19.1 | 10.3 | 54.9 | 15.6 |
| Attendance status when began working toward degree |  |  |  |  |
| Full time | 38.5 | 6.2 | 34.6 | 20.7 |
| Part time | 18.4 | 12.6 | 52.3 | 16.7 |
| Dependency status when began working toward degree |  |  |  |  |
| Dependent | 40.7 | 7.1 | 31.3 | 20.8 |
| Independent | 18.9 | 12.0 | 52.1 | 17.0 |
| Number of children when began working toward degree |  |  |  |  |
| None | 32.5 | 9.1 | 38.5 | 19.9 |
| One or more | 17.0 | 12.5 | 57.3 | 13.2 |
| Single parent status when began working toward degree |  |  |  |  |
| Not a single parent | 31.4 | 9.4 | 40.0 | 19.2 |
| Single parent | 12.8 | 9.5 | 62.8 | 14.9 |
| Worked full time while enrolled when began working toward degree |  |  |  |  |
| Did not work full time | 35.7 | 7.0 | 37.3 | 19.9 |
| Worked full time | 19.0 | 13.9 | 50.4 | 16.8 |

${ }^{1}$ Student enrolled in a different degree or certificate program before the spring of 1994.
${ }^{2}$ Total includes cases where level and control of the institution where began working toward the degree is unknown.
${ }^{3}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{4}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

## Section 8

## Persistence and Attainment of a Certificate

Table 8.1—Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a certificate according to persistence and attainment of a certificate as of spring 1994, by institution where they began working toward the degree and type of degree attained
$\left.\begin{array}{lcccc}\hline & & \begin{array}{c}\text { Attained } \\ \text { certificate }\end{array} & \begin{array}{c}\text { Still } \\ \text { enrolled } \\ \text { toward } \\ \text { certificate }\end{array} & \begin{array}{c}\text { No } \\ \text { certificate, } \\ \text { no longer } \\ \text { enrolled }\end{array}\end{array} \begin{array}{c}\text { Changed } \\ \text { degree } \\ \text { working } \\ \text { toward }\end{array}\right]$
-Too few cases for a reliable estimate.
${ }^{1}$ Student enrolled in a different degree program before the spring of 1994.
${ }^{2}$ Total includes cases where level and control of institution where began working toward the degree is unknown.
SOURCE:U.S.Departmentof Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 8.2—Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a certificate according to persistence and attainment of a certificate as of spring 1994, by demographic characteristics

|  | Attained certificate | Still enrolled toward certificate | No certificate, no longer enrolled | Changed degree working toward ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Total ${ }^{2}$ | 55.8 | 4.5 | 31.0 | 8.7 |
| Gender |  |  |  |  |
| Male | 53.1 | 5.5 | 32.3 | 9.1 |
| Female | 57.7 | 3.8 | 30.1 | 8.4 |
| Age when began working toward degree |  |  |  |  |
| 18 years or younger | 45.2 | 4.9 | 35.9 | 14.0 |
| 19 years | 54.2 | 2.3 | 29.8 | 13.8 |
| 20-29 years | 52.4 | 6.7 | 31.5 | 9.3 |
| 30 years or older | 56.8 | 2.0 | 40.8 | 0.3 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 51.7 | 0.5 | 44.3 | 3.5 |
| Middle quartiles | 56.1 | 6.6 | 28.1 | 9.3 |
| Highest quartile | 60.1 | 4.4 | 21.6 | 13.9 |
| Race-ethnicity of student |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - |
| Asian/Pacific Islander | 72.1 | 0 | 16.4 | 11.6 |
| Black, non-Hispanic | 46.4 | 2.1 | 39.2 | 12.3 |
| Hispanic | 61.7 | 7.4 | 22.9 | 8.0 |
| White, non-Hispanic | 55.9 | 4.8 | 31.2 | 8.1 |
| Marital status when began working toward degree |  |  |  |  |
| Not married | 52.3 | 5.0 | 31.5 | 11.2 |
| Married | 53.0 | 2.3 | 38.5 | 6.2 |
| Separated | 39.8 | 0 | 60.2 | 0 |
| Parental education |  |  |  |  |
| Less than high school diploma | 56.5 | 0.6 | 39.6 | 3.2 |
| High school diploma | 57.0 | 4.3 | 29.4 | 9.3 |
| Some postsecondary | 53.0 | 5.3 | 31.4 | 10.4 |
| Bachelor's or higher | 55.5 | 9.7 | 21.8 | 13.0 |
| Dependency status in 1989-90 56.4 |  |  |  |  |
| Dependent | 56.4 | 5.3 | 26.5 | 11.7 |
| Independent | 55.0 | 3.6 | 36.3 | 5.2 |
| Income and dependency status in 1989-90 |  |  |  |  |
| Dependent |  |  |  |  |
| Less than \$20,000 | 52.0 | 6.1 | 35.2 | 6.7 |
| \$20,000-39,999 | 57.9 | 3.8 | 27.5 | 10.8 |
| \$40,000-59,999 | 62.8 | 4.2 | 17.0 | 15.9 |
| \$60,000 or more | 51.7 | 9.4 | 20.3 | 18.6 |
| Independent |  |  |  |  |
| Less than \$10,000 | 57.7 | 3.7 | 33.2 | 5.4 |
| \$10,000-19,999 | 52.1 | 4.5 | 37.3 | 6.1 |
| \$20,000 or more | 52.9 | 2.5 | 40.9 | 3.7 |

-Too few cases for a reliable estimate.
${ }^{1}$ Student enrolled in a different degree program before the spring of 1994.
${ }^{2}$ Total includes cases where level and control of the institution where began working toward the degree is unknown.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 8.3-Percentage distribution of 1989-90 beginning postsecondary students who were ever working toward a certificate according to persistence and attainment of a certificate as of spring 1994, by persistence risk factors when they began working toward the degree

|  | Attained certificate | Still enrolled toward certificate | No certificate, no longer enrolled | Changed degree working toward ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Total ${ }^{2}$ | 55.8 | 4.5 | 31.0 | 8.7 |
| Number of risk factors when began working toward degree ${ }^{3}$ |  |  |  |  |
| None | 58.7 | 5.2 | 24.7 | 11.4 |
| One | 52.2 | 8.7 | 25.4 | 13.9 |
| Two | 55.5 | 7.1 | 25.7 | 11.6 |
| Three or more | 47.4 | 2.3 | 44.2 | 6.1 |
| High school diploma or equivalency status |  |  |  |  |
| High school diploma | 57.0 | 5.2 | 28.4 | 9.4 |
| GED or high school equivalent | 48.2 | 0 | 47.6 | 4.2 |
| Delayed postsecondary enrollment 56.6 |  |  |  |  |
| Did not delay | 56.6 | 7.9 | 22.7 | 12.8 |
| Delayed | 55.1 | 1.7 | 37.9 | 5.3 |
| Attendance status when began working toward degree |  |  |  |  |
| Full time | 52.9 | 3.8 | 32.3 | 10.9 |
| Part time | 43.7 | 1.9 | 43.9 | 10.4 |
| Dependency status when began working toward degree |  |  |  |  |
| Independent | 51.0 | 5.3 | 36.2 | 7.4 |
| Dependent | 54.6 | 3.8 | 28.0 | 13.6 |
| Number of children when began working toward degree |  |  |  |  |
| None | 51.0 | 6.7 | 30.0 | 12.3 |
| One or more | 50.4 | 1.8 | 43.1 | 4.7 |
| Single parent status when began working toward degree |  |  |  |  |
| Not a single parent | 51.7 | 5.0 | 32.4 | 10.9 |
| Single parent | 49.3 | 0.7 | 44.2 | 5.8 |
| Worked full time while enrolled when began working toward degree |  |  |  |  |
| Did not work full time | 58.4 | 3.6 | 29.7 | 8.4 |
| Worked full time | 39.8 | 6.4 | 41.1 | 12.7 |

[^21]
## Section 9

## Persistence and Attainment During the First Spell of Continuous Enrollment - Total

Table 9.1—Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell ended with a stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 32.0 | 3.1 | 30.3 | 12.4 | 22.2 |
| Intensity of enrollment during first spell Exclusively part time Mixed Exclusively full time | $\begin{array}{r} 8.0 \\ 45.1 \\ 36.6 \end{array}$ | $\begin{aligned} & 2.4 \\ & 7.6 \\ & 2.1 \end{aligned}$ | $\begin{aligned} & 31.3 \\ & 21.6 \\ & 34.0 \end{aligned}$ | $\begin{aligned} & 20.7 \\ & 10.3 \\ & 11.1 \end{aligned}$ | $\begin{aligned} & 37.6 \\ & 15.4 \\ & 16.1 \end{aligned}$ |
| Level and control of first institution 4 -year <br> Public <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 36.5 \\ & 49.8 \end{aligned}$ | 7.1 1.2 | 30.5 31.4 | 11.7 8.6 | $\begin{array}{r} 14.1 \\ 9.0 \end{array}$ |
| 2-year <br> Public <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 17.7 \\ & 35.7 \\ & 39.3 \end{aligned}$ | $\begin{array}{r} 2.2 \\ 0.3 \\ 0 \end{array}$ | 33.4 42.2 21.9 | 16.9 8.1 5.1 | $\begin{aligned} & 29.8 \\ & 13.7 \\ & 33.7 \end{aligned}$ |
| Less-than-2-year <br> Public <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 39.8 \\ & 59.4 \\ & 59.0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 19.9 \\ & 23.7 \\ & 11.4 \end{aligned}$ | $\begin{array}{r} 7.0 \\ 0 \\ 1.5 \end{array}$ | $\begin{aligned} & 33.4 \\ & 17.0 \\ & 28.1 \end{aligned}$ |
| Level of first institution 4 -year 2-year Less-than-2-year | $\begin{aligned} & 40.9 \\ & 20.0 \\ & 54.9 \end{aligned}$ | $\begin{array}{r} 5.2 \\ 2.0 \\ 0 \end{array}$ | $\begin{aligned} & 30.8 \\ & 32.8 \\ & 13.7 \end{aligned}$ | $\begin{array}{r} 10.7 \\ 15.7 \\ 2.6 \end{array}$ | $\begin{aligned} & 12.4 \\ & 29.6 \\ & 28.8 \end{aligned}$ |
| Control of first institution <br> Public <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 25.5 \\ & 48.5 \\ & 51.7 \end{aligned}$ | $\begin{array}{r} 4.0 \\ 1.0 \\ 0 \end{array}$ | $\begin{aligned} & 32.0 \\ & 32.4 \\ & 15.3 \end{aligned}$ | $\begin{array}{r} 14.7 \\ 8.4 \\ 2.8 \end{array}$ | $\begin{array}{r} 23.9 \\ 9.7 \\ 30.2 \end{array}$ |
| Degree working toward when began first spell None Certificate <br> Associate's degree <br> Bachelor's degree | $\begin{array}{r} 3.2 \\ 42.9 \\ 24.2 \\ 36.9 \end{array}$ | $\begin{array}{r} 0 \\ 0.5 \\ 1.9 \\ 5.0 \end{array}$ | $\begin{aligned} & 33.1 \\ & 13.4 \\ & 31.3 \\ & 34.8 \end{aligned}$ | $\begin{array}{r} 23.4 \\ 9.1 \\ 14.5 \\ 11.8 \end{array}$ | $\begin{aligned} & 40.3 \\ & 34.0 \\ & 28.0 \\ & 11.5 \end{aligned}$ |
| First type of degree attained None Certificate Associate's degree Bachelor's degree | $\begin{aligned} & 55.6 \\ & 62.4 \\ & 69.8 \end{aligned}$ | $\begin{array}{r} 6.2 \\ 0 \\ 0.1 \\ 0.1 \end{array}$ | $\begin{aligned} & 32.5 \\ & 37.0 \\ & 28.0 \\ & 23.2 \end{aligned}$ | $\begin{array}{r} 17.1 \\ 7.4 \\ 9.5 \\ 7.0 \end{array}$ | $\begin{gathered} 44.3 \\ \dagger \\ \dagger \\ \dagger \end{gathered}$ |
| Highest degree attained None Certificate Associate's degree Bachelor's degree | $\begin{array}{r} \dagger \\ 55.5 \\ 57.2 \\ 71.2 \\ \hline \end{array}$ | $\begin{array}{r} 6.2 \\ 0 \\ 0.1 \\ 0.1 \\ \hline \end{array}$ | $\begin{aligned} & 32.5 \\ & 36.8 \\ & 32.2 \\ & 22.1 \\ & \hline \end{aligned}$ | $\begin{array}{r} 17.1 \\ 7.7 \\ 10.5 \\ 6.6 \\ \hline \end{array}$ | $\begin{gathered} 44.3 \\ \dagger \\ \dagger \\ \dagger \end{gathered}$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 9.2—Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by demographic characteristics

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell <br> ended <br> with a <br> transfer | Spell <br> ended <br> with a <br> stopout | Left without return at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 32.0 | 3.1 | 30.3 | 12.4 | 22.2 |
| Gender |  |  |  |  |  |
| Male | 27.2 | 3.8 | 33.1 | 14.2 | 21.7 |
| Female | 36.1 | 2.5 | 27.9 | 10.9 | 22.5 |
| Age when began first spell |  |  |  |  |  |
| 18 years or younger | 37.5 | 3.3 | 34.1 | 11.2 | 13.9 |
| 19 years | 22.8 | 2.9 | 33.5 | 16.2 | 24.6 |
| 20-29 years | 24.2 | 3.5 | 22.0 | 14.9 | 35.4 |
| 30 years or older | 22.0 | 1.8 | 17.4 | 10.8 | 48.1 |
| Socioeconomic status |  |  |  |  |  |
| Lowest quartile | 27.0 | 3.9 | 17.4 | 11.1 | 40.5 |
| Middle quartiles | 29.1 | 3.2 | 29.4 | 14.2 | 24.0 |
| Highest quartile | 37.0 | 2.8 | 36.1 | 10.8 | 13.3 |
| Race-ethnicity of student |  |  |  |  |  |
| American Indian/Alaskan Native | 39.9 | 11.0 | 22.3 | 11.2 | 15.7 |
| Asian/Pacific Islander | 39.8 | 6.7 | 29.1 | 12.3 | 12.1 |
| Black, non-Hispanic | 23.5 | 3.4 | 32.4 | 13.4 | 27.3 |
| Hispanic | 24.8 | 5.8 | 33.7 | 14.7 | 21.0 |
| White, non-Hispanic | 33.3 | 2.6 | 29.8 | 12.1 | 22.3 |
| Marital status when began first spell |  |  |  |  |  |
| Not married | 33.5 | 3.4 | 32.9 | 12.3 | 17.9 |
| Married | 24.2 | 1.5 | 13.5 | 15.0 | 45.8 |
| Separated | 27.8 | 0 | 14.1 | 5.8 | 52.3 |
| Parental education |  |  |  |  |  |
| Less than high school diploma | 26.5 | 3.4 | 22.5 | 10.5 | 37.1 |
| High school diploma | 28.3 | 2.2 | 28.0 | 15.1 | 26.4 |
| Some postsecondary | 35.3 | 3.6 | 29.5 | 12.3 | 19.3 |
| Bachelor's or higher | 36.2 | 3.8 | 37.1 | 11.6 | 11.3 |
| Dependency status in 1989-90 |  |  |  |  |  |
| Dependent | 34.7 | 3.4 | 33.8 | 12.4 | 15.8 |
| Independent | 24.2 | 2.4 | 20.4 | 12.4 | 40.6 |
| Income and dependency status in 1989-90 |  |  |  |  |  |
| Dependent |  |  |  |  |  |
| Less than \$20,000 | 29.5 | 4.9 | 31.2 | 11.2 | 23.2 |
| \$20,000-39,999 | 30.9 | 2.6 | 34.4 | 14.1 | 18.0 |
| \$40,000-59,999 | 39.8 | 3.6 | 31.0 | 13.5 | 12.2 |
| \$60,000 or more | 39.3 | 2.7 | 38.8 | 9.8 | 9.4 |
| Independent |  |  |  |  |  |
| Less than \$10,000 | 26.0 | 3.5 | 26.7 | 9.8 | 34.0 |
| \$10,000-19,999 | 29.2 | 0 | 13.9 | 15.7 | 41.2 |
| \$20,000 or more | 17.5 | 3.0 | 17.5 | 13.1 | 48.8 |

${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Departmentof Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 9.3-Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by persistence risk factors when they began first spell

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell ended with a stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 32.0 | 3.1 | 30.3 | 12.4 | 22.2 |
| Number of risk factors when began first spefl |  |  |  |  |  |
| None | 42.1 | 4.2 | 32.5 | 9.4 | 11.8 |
| One | 29.7 | 2.0 | 36.8 | 12.9 | 18.7 |
| Two | 24.1 | 1.4 | 30.1 | 15.9 | 28.5 |
| Three or more | 20.2 | 2.9 | 21.0 | 15.7 | 40.2 |
| High school diploma or equivalency status |  |  |  |  |  |
| High school diploma | 32.5 | 3.2 | 30.9 | 12.4 | 21.0 |
| GED or high school equivalent | 24.2 | 1.5 | 22.4 | 13.0 | 38.9 |
| Delayed postsecondary enrollment |  |  |  |  |  |
| Did not delay | 36.4 | 3.3 | 34.3 | 11.7 | 14.2 |
| Delayed | 22.9 | 2.7 | 22.0 | 13.8 | 38.6 |
| Attendance status when began first spell 30.0 |  |  |  |  |  |
| Full time | 39.0 | 3.3 | 30.8 | 10.9 | 16.1 |
| Part time | 12.6 | 3.5 | 31.2 | 19.3 | 33.4 |
| Dependency status when began first spell |  |  |  |  |  |
| Dependent | 37.9 | 3.6 | 33.8 | 10.9 | 13.8 |
| Independent | 22.6 | 2.5 | 25.2 | 15.1 | 34.6 |
| Number of children when began first spell |  |  |  |  |  |
| None | 33.4 | 3.4 | 32.4 | 12.3 | 18.5 |
| One or more | 24.1 | 1.7 | 18.6 | 13.4 | 42.2 |
| Single parent status when began first spell |  |  |  |  |  |
| Not a single parent | 32.8 | 3.2 | 30.7 | 12.6 | 20.5 |
| Single parent | 24.3 | 2.6 | 22.9 | 10.8 | 39.5 |
| Worked full time while enrolled when began first spell |  |  |  |  |  |
| Did not work full time | 35.8 | 3.3 | 31.9 | 10.5 | 18.5 |
| Worked full time | 23.1 | 2.8 | 26.3 | 17.0 | 30.8 |

${ }^{1}$ Without return as of spring 1994.
${ }^{2}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{3}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 9.4—Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by social, academic, and work experiences and measures of satisfaction during the 1989-90 academic year

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell ended with a stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 32.0 | 3.1 | 30.3 | 12.4 | 22.2 |
| Index of social integration in 1989-90 |  |  |  |  |  |
| Low | 17.9 | 2.1 | 21.6 | 15.1 | 43.3 |
| Moderate | 28.6 | 3.6 | 32.6 | 13.3 | 21.8 |
| High | 42.3 | 3.1 | 31.2 | 9.7 | 13.7 |
| Index of academic integration in 1989-90 |  |  |  |  |  |
| Low | 14.6 | 1.1 | 26.7 | 21.6 | 35.9 |
| Moderate | 27.8 | 3.2 | 28.3 | 12.7 | 28.0 |
| High | 36.9 | 3.5 | 31.8 | 11.5 | 16.4 |
| Local residence in 1989-90 |  |  |  |  |  |
| Campus housing | 47.4 | 4.3 | 31.6 | 8.4 | 8.4 |
| Off-campus | 25.5 | 2.0 | 25.0 | 12.1 | 35.4 |
| With parents | 25.5 | 3.1 | 33.2 | 15.6 | 22.6 |
| Educational aspirations in 1989-90 |  |  |  |  |  |
| Trade school | 42.5 | 0 | 12.9 | 7.3 | 37.4 |
| 2-year degree | 21.6 | 2.2 | 21.8 | 17.8 | 36.6 |
| Bachelor's degree | 26.0 | 3.6 | 36.0 | 12.9 | 21.5 |
| Advanced degree | 38.5 | 3.5 | 33.2 | 10.9 | 13.9 |
| Satisfaction with first institution in 1989-90 |  |  |  |  |  |
| Low | 27.8 | 0 | 48.4 | 5.1 | 18.6 |
| Moderate | 29.7 | 3.0 | 39.6 | 12.4 | 15.3 |
| High | 33.9 | 3.6 | 28.3 | 13.1 | 21.1 |
| Average hours worked while enrolled in 1989-90 |  |  |  |  |  |
| Less than 5 hours | 36.7 | 2.6 | 28.1 | 9.6 | 22.9 |
| 5-15 hours | 42.2 | 3.5 | 33.5 | 10.9 | 9.9 |
| 16-25 hours | 35.0 | 3.0 | 34.3 | 9.8 | 17.9 |
| 26-34 hours | 30.7 | 4.8 | 33.2 | 12.5 | 18.9 |
| More than 34 hours | 23.3 | 2.7 | 26.9 | 16.8 | 30.4 |
| Grade point average in 1989-90 |  |  |  |  |  |
| Less than C's | 15.2 | 4.3 | 41.8 | 14.6 | 24.0 |
| Mostly C's | 24.1 | 3.1 | 33.5 | 19.5 | 19.8 |
| B's and C's | 35.3 | 5.0 | 33.0 | 10.7 | 16.1 |
| Mostly B's | 38.0 | 2.2 | 30.0 | 9.9 | 19.8 |
| A's and B's | 48.7 | 4.0 | 23.0 | 9.3 | 15.0 |
| Mostly A's | 41.8 | 3.2 | 19.5 | 11.1 | 24.5 |
| Number of types of remedial instruction received in 1989-90 |  |  |  |  |  |
| None | 33.2 | 3.0 | 29.9 | 12.1 | 21.9 |
| One | 29.7 | 2.5 | 32.7 | 15.5 | 19.6 |
| Two or more | 19.5 | 5.3 | 33.1 | 13.1 | 29.0 |

${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Departmentof Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 9.5-Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the first spell of continuous enrollment, by education financing during the 1989-90 academic year

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell <br> ended <br> with a <br> stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 32.0 | 3.1 | 30.3 | 12.4 | 22.2 |
| Total costs in 1989-90 |  |  |  |  |  |
| Less than \$4,000 | 19.7 | 3.0 | 33.5 | 15.1 | 28.6 |
| \$4,000-7,999 | 33.0 | 4.3 | 31.2 | 13.3 | 18.1 |
| \$8,000-11,999 | 40.3 | 2.8 | 28.2 | 8.1 | 20.5 |
| \$12,000 or more | 54.2 | 1.1 | 23.1 | 7.3 | 14.3 |
| Total aid amount in 1989-90 |  |  |  |  |  |
| None | 24.6 | 3.2 | 33.8 | 14.9 | 23.6 |
| Less than \$2,000 | 31.9 | 3.3 | 26.4 | 11.9 | 26.5 |
| \$2,000-4,999 | 40.5 | 3.3 | 27.1 | 8.0 | 21.0 |
| \$5,000-6,999 | 52.1 | 3.3 | 22.0 | 8.2 | 14.4 |
| \$7,000 or more | 54.0 | 0.8 | 27.5 | 9.1 | 8.7 |
| Total federal aid amount in 1989-90 |  |  |  |  |  |
| None | 28.3 | 3.2 | 32.4 | 14.0 | 22.1 |
| Less than \$2,000 | 29.5 | 3.9 | 27.0 | 10.5 | 29.1 |
| \$2,000-4,999 | 43.1 | 3.0 | 26.0 | 8.8 | 19.2 |
| \$5,000-6,999 | 57.6 | 0.1 | 21.7 | 5.6 | 15.0 |
| \$7,000 or more | 60.7 | 0 | 21.3 | 5.4 | 12.6 |
| Total loan amount in 1989-90 |  |  |  |  |  |
| None | 28.8 | 3.4 | 31.3 | 13.5 | 23.0 |
| Less than \$1,000 | 32.2 | 2.7 | 32.3 | 10.3 | 22.5 |
| \$1,000-1,999 | 34.8 | 3.0 | 26.8 | 10.9 | 24.6 |
| \$2,000-2,999 | 49.6 | 2.0 | 24.4 | 7.1 | 16.9 |
| \$3,000 or more | 51.8 | 0.3 | 26.9 | 6.3 | 14.7 |
| Total grant amount in 1989-90 |  |  |  |  |  |
| None | 26.7 | 3.0 | 32.9 | 14.3 | 23.1 |
| Less than \$1,000 | 31.7 | 3.3 | 27.4 | 10.6 | 27.0 |
| \$1,000-1,999 | 39.6 | 3.3 | 24.2 | 10.0 | 23.0 |
| \$2,000-2,999 | 40.2 | 4.2 | 27.8 | 7.3 | 20.5 |
| \$3,000 or more | 50.5 | 2.9 | 25.6 | 9.0 | 12.0 |
| Aid package at first institution in 1989-90 |  |  |  |  |  |
| No aid | 24.5 | 3.2 | 33.8 | 14.8 | 23.5 |
| Grants, no loans | 40.1 | 3.8 | 25.1 | 10.1 | 20.8 |
| Grants and loans | 45.9 | 2.4 | 25.0 | 8.1 | 18.5 |
| Loans, no grants | 47.3 | 0.7 | 22.6 | 8.6 | 20.8 |
| Other aid | 29.0 | 4.8 | 27.7 | 15.6 | 23.0 |
| ${ }^{1}$ Without return as of spring 1994. |  |  |  |  |  |

Section 10

Persistence and Attainment During the First Spell of Continuous Enrollment - By Institution Type

Table 10.1a-Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell <br> ended <br> with a <br> transfer | Spell <br> ended <br> with a <br> stopout | Left without return at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4-year public institution |  |  |  |  |
| Total | 36.5 | 7.1 | 30.5 | 11.7 | 14.1 |
| Intensity of enrollment during first spell |  |  |  |  |  |
| Exclusively part time | 2.8 | 0 | 47.0 | 8.1 | 42.0 |
| Mixed | 48.8 | 12.8 | 17.0 | 7.6 | 13.9 |
| Exclusively full time | 36.1 | 5.4 | 33.6 | 13.7 | 11.1 |
| Degree working toward when began first spell |  |  |  |  |  |
| None | - | - | - | - | - |
| Certificate | - | - | - | - | - |
| Associate's degree | 25.4 | 1.7 | 29.3 | 13.9 | 29.7 |
| Bachelor's degree | 38.5 | 7.8 | 29.6 | 11.9 | 12.1 |
| First type of degree attained |  |  |  |  |  |
| None | $\dagger$ | 15.6 | 35.3 | 17.9 | 31.1 |
| Certificate | 18.2 | 0 | 79.7 | 2.1 | $\dagger$ |
| Associate's degree | 36.6 | 0.9 | 57.8 | 4.7 | $\dagger$ |
| Bachelor's degree | 73.8 | 0 | 19.0 | 7.3 | $\dagger$ |
| Highest degree attained |  |  |  |  |  |
| None | $\dagger$ | 15.6 | 35.3 | 17.9 | 31.1 |
| Certificate | 17.5 | 0 | 80.3 | 2.2 | $\dagger$ |
| Associate's degree | 28.3 | 1.1 | 65.2 | 5.4 | $\dagger$ |
| Bachelor's degree | 73.8 | 0 | 19.1 | 7.1 | $\dagger$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Centerfor Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.1b-Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell ended with a stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4-year private, not-for-profit institution |  |  |  |  |
| Total | 49.8 | 1.2 | 31.4 | 8.6 | 9.0 |
| Intensity of enrollment during first spell |  |  |  |  |  |
| Exclusively part time | 5.8 | 0 | 42.2 | 13.1 | 38.9 |
| Mixed | 72.8 | 2.2 | 11.6 | 6.1 | 7.4 |
| Exclusively full time | 50.0 | 1.1 | 33.6 | 8.2 | 7.1 |
| Degree working toward when began first spell |  |  |  |  |  |
| None | - | - | - | - | - |
| Certificate | - | - | - | - | - |
| Associate's degree | 34.5 | 3.1 | 35.9 | 6.3 | 20.3 |
| Bachelor's degree | 52.2 | 1.1 | 30.4 | 8.9 | 7.5 |
| First type of degree attained |  |  |  |  |  |
| None | $\dagger$ | 3.7 | 53.0 | 11.4 | 31.9 |
| Certificate | 25.6 | 0 | 65.2 | 9.2 | $\dagger$ |
| Associate's degree | 34.6 | 0 | 62.6 | 2.9 | $\dagger$ |
| Bachelor's degree | 73.7 | 0.2 | 18.3 | 7.8 | $\dagger$ |
| Highest degree attained |  |  |  |  |  |
| None | $\dagger$ | 3.7 | 53.0 | 11.4 | 31.9 |
| Certificate | 16.6 | 0 | 71.6 | 11.7 | $\dagger$ |
| Associate's degree | 34.2 | 0 | 62.5 | 3.3 | $\dagger$ |
| Bachelor's degree | 72.7 | 0.2 | 19.5 | 7.6 | $\dagger$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Centerfor Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.1c-Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell ended with a stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2-year public institution |  |  |  |  |
| Total | 17.7 | 2.2 | 33.4 | 16.9 | 29.8 |
| Intensity of enrollment during first spell |  |  |  |  |  |
| Exclusively part time | 4.2 | 3.0 | 30.1 | 24.3 | 38.3 |
| Mixed | 34.5 | 5.6 | 28.0 | 13.2 | 18.7 |
| Exclusively full time | 19.3 | 0.4 | 42.8 | 14.7 | 22.8 |
| Degree working toward when began first spell |  |  |  |  |  |
| None | 1.1 | 0 | 27.9 | 26.1 | 44.9 |
| Certificate | 20.1 | 1.4 | 12.7 | 21.1 | 44.7 |
| Associate's degree | 21.6 | 2.2 | 32.0 | 15.8 | 28.5 |
| Bachelor's degree | 15.3 | 3.5 | 51.3 | 16.1 | 13.8 |
| First type of degree attained |  |  |  |  |  |
| None | $\dagger$ | 3.4 | 29.2 | 20.2 | 47.2 |
| Certificate | 27.9 | 0 | 58.4 | 13.8 | $\dagger$ |
| Associate's degree | 66.7 | 0 | 22.4 | 11.0 | $\dagger$ |
| Bachelor's degree | - | - | - | - | $\dagger$ |
| Highest degree attained |  |  |  |  |  |
| None | $\dagger$ | 3.4 | 29.2 | 20.2 | 47.2 |
| Certificate | 28.3 | 0 | 57.5 | 14.2 | $\dagger$ |
| Associate's degree | 59.7 | 0 | 28.1 | 12.2 | $\dagger$ |
| Bachelor's degree | 56.3 | 0 | 41.2 | 2.5 | $\pm$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Centerfor Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.2a-Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by demographic characteristics

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Spell } \\ \text { ended } \\ \text { with a } \\ \text { transfer } \end{gathered}$ | Spell <br> ended <br> with a <br> stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4-year public institution |  |  |  |  |
| Total | 36.5 | 7.1 | 30.5 | 11.7 | 14.1 |
| Gender |  |  |  |  |  |
| Male | 31.0 | 8.4 | 33.1 | 13.6 | 13.8 |
| Female | 41.3 | 5.9 | 28.3 | 10.1 | 14.3 |
| Age when began first spell |  |  |  |  |  |
| 18 years or younger | 39.8 | 7.2 | 30.9 | 11.5 | 10.6 |
| 19 years | 25.4 | 8.0 | 31.2 | 14.1 | 21.3 |
| 20-29 years | 15.4 | 5.8 | 28.7 | 14.5 | 35.6 |
| 30 years or older | 14.7 | 2.1 | 19.7 | 5.5 | 57.9 |
| Socioeconomic status |  |  |  |  |  |
| Lowest quartile | 20.7 | 11.5 | 17.3 | 6.4 | 44.1 |
| Middle quartiles | 31.9 | 7.8 | 30.9 | 13.3 | 16.2 |
| Highest quartile | 41.6 | 6.1 | 31.7 | 11.2 | 9.3 |
| Race-ethnicity of student |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - |
| Asian/Pacific Islander | 46.9 | 8.4 | 14.1 | 17.5 | 13.1 |
| Black, non-Hispanic | 26.6 | 9.4 | 31.0 | 15.6 | 17.4 |
| Hispanic | 32.4 | 13.1 | 34.8 | 8.3 | 11.3 |
| White, non-Hispanic | 37.3 | 6.5 | 31.1 | 11.2 | 13.9 |
| Marital status when began first spell |  |  |  |  |  |
| Not married | 37.5 | 7.2 | 31.3 | 11.8 | 12.3 |
| Married | 21.5 | 2.3 | 17.9 | 12.1 | 46.3 |
| Separated | - | - | - | - | - |
| Parental education |  |  |  |  |  |
| Less than high school diploma | 35.3 | 4.7 | 22.4 | 15.6 | 22.0 |
| High school diploma | 26.7 | 7.4 | 34.5 | 11.6 | 19.8 |
| Some postsecondary | 38.4 | 7.0 | 28.0 | 11.9 | 14.7 |
| Bachelor's or higher | 42.0 | 7.2 | 30.4 | 11.8 | 8.7 |
| Dependency status in 1989-90 |  |  |  |  |  |
| Dependent | 38.4 | 7.2 | 31.0 | 11.7 | 11.6 |
| Independent | 17.8 | 5.6 | 25.6 | 11.9 | 39.1 |
| Income and dependency status in 1989-90 |  |  |  |  |  |
| Dependent |  |  |  |  |  |
| Less than \$20,000 | 30.5 | 11.2 | 27.8 | 10.9 | 19.6 |
| \$20,000-39,999 | 36.0 | 5.1 | 31.2 | 16.0 | 11.7 |
| \$40,000-59,999 | 41.7 | 8.3 | 28.1 | 10.6 | 11.3 |
| \$60,000 or more | 42.6 | 5.8 | 36.1 | 8.8 | 6.7 |
| Independent |  |  |  |  |  |
| Less than \$10,000 | 18.2 | 10.1 | 29.5 | 10.9 | 31.3 |
| \$10,000-19,999 | - | - | - | - | - |
| \$20,000 or more | 16.5 | 0 | 18.9 | 1.9 | 62.7 |

-Too few cases for a reliable estimate.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 10.2b—Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by demographic characteristics

|  | Attained degree $\begin{gathered}\text { at end } \\ \text { of spell }\end{gathered}$ | $\begin{gathered} \begin{array}{c} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \end{array} \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell ended with a stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 -year private, not-for-profit institution |  |  |  |  |
| Total | 49.8 | 1.2 | 31.4 | 8.6 | 9.0 |
| Gender |  |  |  |  |  |
| Male | 47.3 | 1.6 | 33.3 | 9.8 | 8.1 |
| Female | 52.3 | 0.8 | 29.6 | 7.5 | 9.8 |
| Age when began first spell |  |  |  |  |  |
| 18 years or younger | 53.1 | 1.0 | 31.3 | 8.1 | 6.6 |
| 19 years | 41.1 | 2.6 | 33.7 | 12.7 | 9.9 |
| 20-29 years | 22.3 | 0 | 35.5 | 10.2 | 32.0 |
| 30 years or older | 17.4 | 4.4 | 22.9 | 11.2 | 44.1 |
| Socioeconomic status |  |  |  |  |  |
| Lowest quartile | 29.4 | 1.1 | 24.7 | 6.8 | 38.0 |
| Middle quartiles | 44.6 | 1.3 | 34.7 | 9.6 | 9.9 |
| Highest quartile | 54.1 | 1.1 | 30.3 | 8.3 | 6.2 |
| Race-ethnicity of student |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - |
| Asian/Pacific Islander | 62.1 | 0 | 21.7 | 13.1 | 3.1 |
| Black, non-Hispanic | 44.5 | 1.0 | 36.6 | 10.0 | 7.8 |
| Hispanic | 42.6 | 2.5 | 30.6 | 8.1 | 16.1 |
| White, non-Hispanic | 50.0 | 1.2 | 31.4 | 8.4 | 9.0 |
| Marital status when began first spell |  |  |  |  |  |
| Not married | 51.4 | 1.1 | 31.4 | 8.4 | 7.6 |
| Married | 19.9 | 1.8 | 27.6 | 14.8 | 35.9 |
| Separated | - | - | - | - | - |
| Parental education |  |  |  |  |  |
| Less than high school diploma | 41.8 | 4.0 | 25.1 | 6.3 | 22.8 |
| High school diploma | 42.8 | 0.3 | 34.8 | 7.9 | 14.3 |
| Some postsecondary | 47.3 | 1.3 | 32.6 | 10.2 | 8.6 |
| Bachelor's or higher | 55.0 | 1.2 | 30.4 | 8.4 | 5.0 |
| Dependency status in 1989-90 |  |  |  |  |  |
| Dependent | 51.8 | 1.1 | 31.8 | 8.4 | 6.9 |
| Independent | 25.9 | 1.6 | 27.8 | 10.6 | 34.1 |
| Income and dependency status in 1989-90 |  |  |  |  |  |
| Dependent |  |  |  |  |  |
| Less than \$20,000 | 43.4 | 2.2 | 34.1 | 8.6 | 11.7 |
| \$20,000-39,999 | 45.0 | 1.2 | 37.3 | 8.0 | 8.4 |
| \$40,000-59,999 | 54.3 | 0.8 | 28.7 | 10.4 | 5.8 |
| \$60,000 or more | 59.7 | 0.8 | 28.3 | 7.2 | 4.0 |
| Independent |  |  |  |  |  |
| Less than \$10,000 | 38.9 | 0 | 27.8 | 11.2 | 22.2 |
| \$10,000-19,999 | 20.4 | 0 | 42.0 | 11.5 | 26.1 |
| \$20,000 or more | 16.7 | 4.2 | 18.3 | 9.5 | 51.4 |

-Too few cases for a reliable estimate.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 10.2c—Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by demographic characteristics

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell <br> ended <br> with a <br> stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2-year public institution |  |  |  |  |
| Total | 17.7 | 2.2 | 33.4 | 16.9 | 29.8 |
| Gender |  |  |  |  |  |
| Male | 13.8 | 2.6 | 36.3 | 18.5 | 28.8 |
| Female | 21.4 | 1.7 | 30.5 | 15.4 | 30.9 |
| Age when began first spell |  |  |  |  |  |
| 18 years or younger | 23.8 | 0.9 | 40.9 | 14.6 | 19.9 |
| 19 years | 11.9 | 1.8 | 35.2 | 21.7 | 28.4 |
| 20-29 years | 12.1 | 5.1 | 24.4 | 20.4 | 37.9 |
| 30 years or older | 11.9 | 2.2 | 19.8 | 14.4 | 51.8 |
| Socioeconomic status |  |  |  |  |  |
| Lowest quartile | 16.0 | 4.6 | 20.6 | 16.1 | 42.6 |
| Middle quartiles | 17.6 | 2.3 | 30.8 | 19.4 | 30.0 |
| Highest quartile | 18.9 | 0.4 | 45.7 | 13.3 | 21.7 |
| Race-ethnicity of student |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - |
| Asian/Pacific Islander | - | - | - | - | - |
| Black, non-Hispanic | 11.2 | 1.9 | 37.6 | 19.0 | 30.3 |
| Hispanic | 13.9 | 6.0 | 37.5 | 20.5 | 22.1 |
| White, non-Hispanic | 18.7 | 1.1 | 31.8 | 16.5 | 31.9 |
| Marital status when began first spell |  |  |  |  |  |
| Not married | 18.8 | 2.4 | 37.9 | 17.0 | 23.9 |
| Married | 14.9 | 1.9 | 13.0 | 19.6 | 50.7 |
| Separated | - | - | - | - | - |
| Parental education |  |  |  |  |  |
| Less than high school diploma | 10.9 | 4.7 | 28.3 | 12.0 | 44.1 |
| High school diploma | 20.0 | 0.9 | 26.9 | 22.1 | 30.1 |
| Some postsecondary | 22.2 | 2.7 | 32.3 | 16.5 | 26.4 |
| Bachelor's or higher | 16.2 | 2.4 | 49.0 | 15.1 | 17.3 |
| Dependency status in 1989-90 |  |  |  |  |  |
| Dependent | 20.8 | 1.7 | 38.9 | 17.1 | 21.4 |
| Independent | 11.7 | 3.1 | 22.9 | 16.5 | 45.7 |
| Income and dependency status in 1989-90 |  |  |  |  |  |
| Dependent |  |  |  |  |  |
| Less than \$20,000 | 20.8 | 3.5 | 33.7 | 15.0 | 26.9 |
| \$20,000-39,999 | 19.1 | 1.8 | 37.9 | 17.3 | 23.8 |
| \$40,000-59,999 | 26.7 | 0.8 | 37.3 | 19.6 | 15.6 |
| \$60,000 or more | 14.4 | 0 | 53.3 | 15.7 | 16.6 |
| Independent |  |  |  |  |  |
| Less than \$10,000 | 13.0 | 4.2 | 34.0 | 13.0 | 35.9 |
| \$10,000-19,999 | 14.1 | 0 | 13.7 | 20.9 | 51.3 |
| \$20,000 or more | 8.7 | 4.1 | 18.1 | 17.1 | 51.9 |

-Too few cases for a reliable estimate.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 10.3a-Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by persistence risk factors when began first spell

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell <br> ended <br> with a <br> transfer | Spell ended with a stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4-year public institution |  |  |  |  |
| Total | 36.5 | 7.1 | 30.5 | 11.7 | 14.1 |
| Number of risk factors when began first spefl |  |  |  |  |  |
| None | 42.2 | 8.0 | 29.9 | 10.3 | 9.6 |
| One | 33.9 | 6.0 | 33.2 | 14.3 | 12.6 |
| Two | 13.9 | 3.7 | 35.6 | 16.0 | 30.8 |
| Three or more | 16.2 | 6.0 | 21.8 | 10.9 | 45.1 |
| High school diploma or equivalency status |  |  |  |  |  |
| High school diploma | 37.0 | 7.1 | 30.5 | 11.7 | 13.7 |
| GED or high school equivalent ${ }^{\text {² }}$ | - | - | - | - | - |
| Delayed postsecondary enrollment 7.3 |  |  |  |  |  |
| Did not delay | 39.4 | 7.3 | 31.0 | 11.4 | 10.8 |
| Delayed | 16.0 | 5.6 | 27.0 | 14.1 | 37.3 |
| Attendance status when began first spell |  |  |  |  |  |
| Full time | 39.9 | 7.6 | 29.2 | 11.9 | 11.4 |
| Part time | 12.7 | 2.7 | 37.7 | 12.8 | 34.2 |
| Dependency status when began first spell |  |  |  |  |  |
| Dependent | 39.6 | 7.3 | 31.1 | 11.1 | 10.9 |
| Independent | 22.4 | 6.4 | 29.2 | 14.5 | 27.5 |
| Number of children when began first spell |  |  |  |  |  |
| None | 37.1 | 7.1 | 31.3 | 11.9 | 12.7 |
| One or more | 18.3 | 7.6 | 7.0 | 9.3 | 57.8 |
| Single parent status when began first spell |  |  |  |  |  |
| Single parent | - | - | - | - | - |
| Worked full time while enrolled when began first spell |  |  |  |  |  |
|  |  |  |  |  |  |
| Did not work full time | 38.1 | 7.9 | 30.2 | 11.5 | 12.3 |
| Worked full time | 30.9 | 4.8 | 31.2 | 13.2 | 19.8 |

-Too few cases for a reliable estimate.
${ }^{1}$ Without return as of spring 1994.
${ }^{2}$ Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{3}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 10.3b—Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by persistence risk factors when began first spell

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell <br> ended <br> with a <br> stopout | Left without return at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4-year private, not-for-profit institution |  |  |  |  |
| Total | 49.8 | 1.2 | 31.4 | 8.6 | 9.0 |
| Number of risk factors when began first spefl |  |  |  |  |  |
| None | 54.3 | 1.1 | 30.4 | 7.9 | 6.3 |
| One | 49.1 | 1.0 | 33.5 | 8.6 | 7.7 |
| Two | 29.9 | 1.9 | 40.8 | 10.6 | 16.9 |
| Three or more | 17.5 | 2.0 | 28.2 | 15.2 | 37.1 |
| High school diploma or equivalency status |  |  |  |  |  |
| High school diploma | 50.2 | 1.2 | 31.4 | 8.5 | 8.7 |
| GED or high school equivalent | 28.6 | 0 | 33.3 | 14.1 | 24.1 |
| Delayed postsecondary enrollment |  |  |  |  |  |
| Did not delay | 52.8 | 1.2 | 31.6 | 8.0 | 6.4 |
| Delayed | 23.5 | 1.2 | 29.6 | 14.2 | 31.5 |
| Attendance status when began first spell |  |  |  |  |  |
| Full time | 53.6 | 1.3 | 30.2 | 7.8 | 7.2 |
| Part time | 16.5 | 0 | 36.9 | 13.6 | 33.0 |
| Dependency status when began first spell |  |  |  |  |  |
| Dependent | 53.3 | 1.1 | 30.8 | 8.5 | 6.3 |
| Independent | 29.0 | 1.5 | 34.4 | 10.1 | 25.0 |
| Number of children when began first spell 51.1 |  |  |  |  |  |
| None | 51.1 | 1.1 | 31.5 | 8.6 | 7.7 |
| One or more | 17.9 | 1.8 | 24.6 | 7.3 | 48.4 |
| Single parent status when began first spell |  |  |  |  |  |
| Not a single parent | 50.8 | 1.1 | 31.4 | 8.6 | 8.1 |
| Single parent | - | - | - | - | - |
| Worked full time while enrolled when began first spell |  |  |  |  |  |
|  |  |  |  |  |  |
| Did not work full time | 51.1 | 1.0 | 31.5 | 7.8 | 8.5 |
| Worked full time | 45.2 | 1.8 | 31.9 | 10.9 | 10.3 |

-Too few cases for a reliable estimate.
${ }^{1}$ Without return as of spring 1994.
${ }^{2}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{3}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.3c—Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by persistence risk factors when began first spell

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell <br> ended <br> with a <br> stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2-year public institution |  |  |  |  |
| Total | 17.7 | 2.2 | 33.4 | 16.9 | 29.8 |
| Number of risk factors when began first spełl |  |  |  |  |  |
| None | 28.8 | 2.4 | 39.7 | 11.1 | 18.1 |
| One | 18.1 | 0 | 43.3 | 15.4 | 23.2 |
| Two | 14.7 | 1.2 | 33.3 | 22.4 | 28.4 |
| Three or more | 10.2 | 3.7 | 22.9 | 20.3 | 43.0 |
| High school diploma or equivalency status |  |  |  |  |  |
| High school diploma | 18.4 | 2.2 | 34.2 | 16.7 | 28.6 |
| GED or high school equivalent | 9.2 | 2.1 | 24.0 | 20.0 | 44.8 |
| Delayed postsecondary enrollment |  |  |  |  |  |
| Did not delay | 21.9 | 1.2 | 40.8 | 16.0 | 20.2 |
| Delayed | 12.3 | 3.5 | 24.0 | 18.1 | 42.2 |
| Attendance status when began first spell |  |  |  |  |  |
| Full time | 23.8 | 1.3 | 37.8 | 14.4 | 22.7 |
| Part time | 8.9 | 4.2 | 30.9 | 22.1 | 33.9 |
| Dependency status when began first spell |  |  |  |  |  |
| Dependent | 24.5 | 1.7 | 40.1 | 14.1 | 19.6 |
| Independent | 11.4 | 2.7 | 27.7 | 19.9 | 38.3 |
| Number of children when began first spell |  |  |  |  |  |
| None | 18.9 | 2.3 | 36.8 | 16.5 | 25.5 |
| One or more | 11.6 | 2.0 | 21.9 | 18.8 | 45.7 |
| Single parent status when began first spell |  |  |  |  |  |
| Not a single parent | 18.5 | 2.3 | 33.4 | 17.3 | 28.5 |
| Single parent | 6.6 | 3.4 | 32.2 | 16.0 | 41.8 |
| Worked full time while enrolled when began first spell |  |  |  |  |  |
| Did not work full time | 21.3 | 1.8 | 38.7 | 13.4 | 24.7 |
| Worked full time | 11.7 | 2.8 | 24.1 | 22.3 | 39.1 |

${ }^{1}$ Without return as of spring 1994.
${ }^{2}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{3}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.4a- $\left.\begin{array}{l}\text { Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year } \\ \text { public institutions according to persistence and attainment during the first spell of continuous } \\ \text { enrollment, by social, academic, and work experiences and measures of satisfaction during the } \\ \\ \hline\end{array}\right] .989$ academic year

|  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Attained <br> degree <br> at end <br> of spell | Still <br> enrolled <br> in <br> spring 1994 | Spell <br> ended <br> with a <br> transfer | Spell <br> ended <br> with a <br> stopout | without <br> return <br> at end <br> of spell |
|  |  |  |  |  |  |
|  |  | $4-$ year public institution |  |  |  |

[^22]${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.4b—Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by social, academic, and work experiences and measures of satisfaction during the 1989-90 academic year

-Too few cases for a reliable estimate.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 10.4c-Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by social, academic, and work experiences and measures of satisfaction during the 1989-90 academic year


[^23]${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.5a-Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by education financing during the 1989-90 academic year

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell ended with a stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4-year public institution |  |  |  |  |
| Total | 36.5 | 7.1 | 30.5 | 11.7 | 14.1 |
| Total costs in 1989-90 |  |  |  |  |  |
| Less than \$4,000 | 30.5 | 8.0 | 34.3 | 10.4 | 16.8 |
| \$4,000-7,999 | 39.3 | 6.9 | 28.7 | 13.3 | 11.8 |
| \$8,000-11,999 | 39.1 | 5.4 | 31.8 | 7.9 | 15.7 |
| \$12,000 or more | 39.1 | 7.3 | 23.4 | 13.6 | 16.5 |
| Total aid amount in 1989-90 |  |  |  |  |  |
| None | 33.1 | 7.4 | 34.1 | 12.1 | 13.3 |
| Less than \$2,000 | 40.3 | 4.9 | 24.3 | 12.4 | 18.0 |
| \$2,000-4,999 | 38.4 | 7.8 | 28.0 | 10.1 | 15.7 |
| \$5,000-6,999 | 46.7 | 8.6 | 26.5 | 11.3 | 6.9 |
| \$7,000 or more | 37.2 | 3.0 | 32.8 | 16.7 | 10.2 |
| Total federal aid amount in 1989-90 |  |  |  |  |  |
| None | 37.5 | 6.7 | 31.8 | 11.6 | 12.3 |
| Less than \$2,000 | 32.5 | 8.7 | 26.8 | 10.8 | 21.3 |
| \$2,000-4,999 | 35.1 | 8.1 | 27.8 | 12.9 | 16.1 |
| \$5,000-6,999 | 42.9 | 0 | 34.5 | 12.9 | 9.7 |
| \$7,000 or more | - | - | - | - | - |
| Total loan amount in 1989-90 |  |  |  |  |  |
| None | 36.2 | 7.5 | 30.7 | 11.6 | 14.0 |
| Less than \$1,000 | 39.9 | 3.9 | 33.2 | 8.9 | 14.1 |
| \$1,000-1,999 | 35.8 | 6.1 | 25.1 | 14.7 | 18.3 |
| \$2,000-2,999 | 37.4 | 7.5 | 31.8 | 10.3 | 13.0 |
| \$3,000 or more | 40.9 | 0 | 32.2 | 21.3 | 5.7 |
| Total grant amount in 1989-90 30.1 |  |  |  |  |  |
| None | 35.1 | 6.6 | 33.5 | 12.0 | 12.8 |
| Less than \$1,000 | 36.4 | 4.2 | 24.7 | 11.3 | 23.4 |
| \$1,000-1,999 | 41.0 | 7.3 | 23.9 | 13.6 | 14.2 |
| \$2,000-2,999 | 32.1 | 12.0 | 31.0 | 7.4 | 17.4 |
| \$3,000 or more | 44.3 | 8.8 | 25.1 | 11.4 | 10.3 |
| Aid package at first institution in 1989-90 |  |  |  |  |  |
| No aid | 33.1 | 7.4 | 34.1 | 12.1 | 13.3 |
| Grants, no loans | 43.6 | 8.8 | 22.5 | 10.6 | 14.5 |
| Grants and loans | 35.4 | 7.2 | 28.4 | 12.1 | 16.8 |
| Loans, no grants | 46.8 | 1.9 | 30.5 | 12.5 | 8.3 |
| Other aid | 40.3 | 3.7 | 28.6 | 11.2 | 16.2 |

-Too few cases for a reliable estimate.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.5b—Percentage distribution of 1989-90 beginning postsecondary students who began in 4-year private, not-for-profit institutions according to persistence and attainment during the first spell of continuous enrollment, by education financing during the 1989-90 academic year

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Spell } \\ \text { ended } \\ \text { with a } \\ \text { transfer } \end{gathered}$ | Spell <br> ended <br> with a <br> stopout | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4-year private, not-for-profit institution |  |  |  |  |
| Total | 49.8 | 1.2 | 31.4 | 8.6 | 9.0 |
| Total costs in 1989-90 |  |  |  |  |  |
| Less than \$4,000 | 13.4 | 0.8 | 42.2 | 13.5 | 30.2 |
| \$4,000-7,999 | 32.1 | 1.5 | 43.7 | 9.3 | 13.4 |
| \$8,000-11,999 | 48.5 | 1.9 | 33.3 | 8.0 | 8.3 |
| \$12,000 or more | 60.0 | 0.7 | 25.5 | 8.1 | 5.8 |
| Total aid amount in 1989-90 |  |  |  |  |  |
| None | 46.9 | 0.8 | 32.7 | 10.0 | 9.6 |
| Less than \$2,000 | 43.6 | 2.5 | 28.3 | 12.1 | 13.5 |
| \$2,000-4,999 | 48.0 | 1.4 | 36.2 | 5.9 | 8.5 |
| \$5,000-6,999 | 46.6 | 1.8 | 34.8 | 7.8 | 9.0 |
| \$7,000 or more | 57.2 | 0.7 | 26.8 | 8.3 | 7.1 |
| Total federal aid amount in 1989-90 |  |  |  |  |  |
| None | 51.9 | 1.2 | 28.5 | 9.8 | 8.6 |
| Less than \$2,000 | 43.3 | 0.6 | 40.8 | 5.5 | 9.8 |
| \$2,000-4,999 | 48.1 | 1.5 | 32.7 | 7.9 | 9.8 |
| \$5,000-6,999 | 45.5 | 0.4 | 38.8 | 7.0 | 8.2 |
| \$7,000 or more | 59.2 | 0 | 24.5 | 9.3 | 7.0 |
| Total loan amount in 1989-90 |  |  |  |  |  |
| None | 50.9 | 1.2 | 29.2 | 9.4 | 9.3 |
| Less than \$1,000 | 38.0 | 5.2 | 34.6 | 13.7 | 8.4 |
| \$1,000-1,999 | 41.3 | 2.0 | 39.2 | 7.2 | 10.3 |
| \$2,000-2,999 | 52.3 | 0.3 | 33.8 | 6.4 | 7.2 |
| \$3,000 or more | 48.6 | 0.8 | 33.1 | 7.9 | 9.6 |
| Total grant amount in 1989-90 |  |  |  |  |  |
| None | 46.8 | 0.6 | 33.6 | 9.8 | 9.2 |
| Less than \$1,000 | 36.5 | 5.7 | 32.0 | 11.2 | 14.6 |
| \$1,000-1,999 | 46.6 | 1.0 | 36.3 | 6.5 | 9.6 |
| \$2,000-2,999 | 46.5 | 1.5 | 35.6 | 8.1 | 8.3 |
| \$3,000 or more | 56.3 | 0.8 | 27.1 | 7.9 | 7.9 |
| Aid package at first institution in 1989-90 |  |  |  |  |  |
| No aid | 46.9 | 0.8 | 32.7 | 10.0 | 9.6 |
| Grants, no loans | 56.4 | 1.6 | 24.7 | 8.8 | 8.5 |
| Grants and loans | 50.1 | 1.3 | 32.2 | 7.5 | 8.9 |
| Loans, no grants | 45.6 | 0 | 38.3 | 9.4 | 6.8 |
| Other aid | 40.5 | 1.6 | 34.3 | 10.0 | 13.6 |

${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 10.5c—Percentage distribution of 1989-90 beginning postsecondary students who began in 2-year public institutions according to persistence and attainment during the first spell of continuous enrollment, by education financing during the 1989-90 academic year

|  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Attained <br> degree <br> at end <br> of spell | Still <br> enrolled <br> in <br> spring <br> 1994 | Spell <br> ended <br> with a <br> transfer | Spell <br> ended <br> with a <br> stopout | Left <br> without <br> return <br> at end <br> of spell |
|  |  |  |  |  |  |
| Total |  | $2-$-year public institution |  |  |  |

-Too few cases for a reliable estimate.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Center forEducationStatistics, 1990 Beginning Postsecondary StudentsLongitudinal Study—Secorl Follow-up (BPS:90/94), Data Analysis System.

## Section 11

## Persistence and Attainment During the Longest Spell of Continuous Enrollment - Total

Table 11.1—Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the longest spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Departmentof Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 11.2-Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the longest spell of continuous enrollment, by demographic characteristics

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Spell ended with a transfer | Spell ended with a stopout | Left without return at end of spell |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 36.8 | 7.3 | 17.4 | 11.9 | 26.6 |
| Gender |  |  |  |  |  |
| Male | 32.0 | 8.0 | 19.7 | 13.9 | 26.5 |
| Female | 40.9 | 6.8 | 15.4 | 10.2 | 26.7 |
| Age when began longest spell |  |  |  |  |  |
| 18 years or younger | 44.9 | 4.4 | 20.9 | 12.2 | 17.6 |
| 19 years | 34.6 | 6.6 | 19.2 | 13.7 | 25.9 |
| 20-29 years | 27.2 | 15.0 | 12.2 | 10.7 | 34.9 |
| 30 years or older | 24.4 | 3.2 | 10.7 | 10.7 | 51.0 |
| Socioeconomic status |  |  |  |  |  |
| Lowest quartile | 29.5 | 6.0 | 9.5 | 10.6 | 44.5 |
| Middle quartiles | 32.8 | 7.5 | 17.5 | 13.7 | 28.5 |
| Highest quartile | 44.0 | 7.7 | 20.2 | 10.4 | 17.7 |
| Race-ethnicity of student |  |  |  |  |  |
| American Indian/Alaskan Native | 41.8 | 11.0 | 8.9 | 11.2 | 27.2 |
| Asian/Pacific Islander | 45.1 | 9.3 | 19.3 | 12.3 | 14.0 |
| Black, non-Hispanic | 27.9 | 7.2 | 18.7 | 12.5 | 33.7 |
| Hispanic | 30.9 | 8.1 | 21.8 | 13.9 | 25.4 |
| White, non-Hispanic | 38.0 | 7.1 | 16.8 | 11.6 | 26.5 |
| Marital status when began longest spell |  |  |  |  |  |
| Not married | 39.2 | 7.8 | 18.9 | 11.9 | 22.2 |
| Married | 26.0 | 4.6 | 7.3 | 14.0 | 48.1 |
| Separated | 26.1 | 0.8 | 12.9 | 5.8 | 54.4 |
| Parental education |  |  |  |  |  |
| Less than high school diploma | 31.7 | 6.8 | 8.9 | 9.6 | 43.0 |
| High school diploma | 32.7 | 4.6 | 17.2 | 14.5 | 31.0 |
| Some postsecondary | 38.3 | 8.4 | 16.7 | 11.8 | 24.8 |
| Bachelor's or higher | 42.6 | 9.9 | 21.6 | 11.1 | 14.7 |
| Dependency status in 1989-90 |  |  |  |  |  |
| Dependent | 41.0 | 8.0 | 19.2 | 11.7 | 20.0 |
| Independent | 24.7 | 5.3 | 12.3 | 12.4 | 45.3 |
| Income and dependency status in 1989-90 |  |  |  |  |  |
| Dependent |  |  |  |  |  |
| Less than \$20,000 | 36.8 | 7.4 | 17.7 | 10.4 | 27.7 |
| \$20,000-39,999 | 37.3 | 7.6 | 19.3 | 13.1 | 22.6 |
| \$40,000-59,999 | 43.5 | 7.8 | 19.7 | 12.8 | 16.4 |
| \$60,000 or more | 47.7 | 9.7 | 19.9 | 9.6 | 13.0 |
| Independent |  |  |  |  |  |
| Less than \$10,000 | 26.2 | 7.6 | 15.1 | 9.8 | 41.3 |
| \$10,000-19,999 | 28.9 | 2.6 | 10.0 | 15.7 | 42.8 |
| \$20,000 or more | 19.1 | 4.6 | 10.4 | 13.1 | 52.8 |

Table 11.3-Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the longest spell of continuous enrollment, by persistence risk factors when they began longest spell

|  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Attained <br> degree <br> at end <br> of spell | Still <br> enrolled <br> in <br> spring 1994 | Spell <br> ended <br> with a <br> transfer | Spell <br> ended <br> with a <br> stopout | without <br> return <br> at end <br> of spell |
| Total | 36.8 |  |  |  |  |
| Number of risk factors when began longest |  | 7.3 | 17.4 | 11.9 | 26.6 |

${ }^{1}$ Without return as of spring 1994.
${ }^{2}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{3}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

## Section 12

## Persistence and Attainment During Last Spell of Continuous Enrollment - Total

Table 12.1—Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the last spell of continuous enrollment, by institution attended, intensity of enrollment, degree working toward, and type of degree attained

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Left <br> without return at end of spell |
| :---: | :---: | :---: | :---: |
| Total | 37.7 | 19.0 | 43.3 |
| Intensity of enrollment during last spell Exclusively part time Mixed Exclusively full time | $\begin{aligned} & 11.2 \\ & 45.3 \\ & 46.2 \end{aligned}$ | $\begin{aligned} & 17.9 \\ & 28.6 \\ & 18.6 \end{aligned}$ | $\begin{aligned} & 70.8 \\ & 26.2 \\ & 35.2 \end{aligned}$ |
| Level and control of last institution 4 -year <br> Public, 4-year <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 42.7 \\ & 61.6 \end{aligned}$ | 29.6 16.4 | $\begin{aligned} & 27.7 \\ & 22.0 \end{aligned}$ |
| 2-year <br> Public <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 19.3 \\ & 50.8 \\ & 43.9 \end{aligned}$ | $\begin{array}{r} 16.9 \\ 12.3 \\ 3.3 \end{array}$ | $\begin{aligned} & 63.9 \\ & 36.9 \\ & 52.8 \end{aligned}$ |
| Less-than-2-year <br> Public <br> Private, not-for-profit Private, for-profit | $\begin{aligned} & 49.1 \\ & 47.7 \\ & 52.2 \end{aligned}$ | $\begin{aligned} & 0.6 \\ & 3.8 \\ & 1.6 \end{aligned}$ | $\begin{aligned} & 50.3 \\ & 48.5 \\ & 46.3 \end{aligned}$ |
| Level of last institution 4-year 2-year Less-than-2-year | $\begin{aligned} & 47.7 \\ & 22.1 \\ & 51.4 \end{aligned}$ | $\begin{array}{r} 26.0 \\ 15.6 \\ 1.4 \end{array}$ | $\begin{aligned} & 26.3 \\ & 62.2 \\ & 47.2 \end{aligned}$ |
| Control of last institution <br> Public <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 31.0 \\ & 60.6 \\ & 48.7 \end{aligned}$ | $\begin{array}{r} 22.3 \\ 15.9 \\ 2.6 \end{array}$ | $\begin{aligned} & 46.6 \\ & 23.5 \\ & 48.8 \end{aligned}$ |
| Degree working toward when began last spell None Certificate <br> Associate's degree <br> Bachelor's degree | $\begin{array}{r} 5.2 \\ 43.4 \\ 27.1 \\ 46.9 \end{array}$ | $\begin{array}{r} 7.9 \\ 8.1 \\ 13.9 \\ 26.3 \end{array}$ | $\begin{aligned} & 87.0 \\ & 48.5 \\ & 59.0 \\ & 26.8 \end{aligned}$ |
| First type of degree attained None Certificate Associate's degree Bachelor's degree | $\begin{gathered} \dagger \\ 68.8 \\ 60.4 \\ 87.8 \end{gathered}$ | $\begin{array}{r} 26.5 \\ 8.7 \\ 23.1 \\ 6.4 \end{array}$ | $\begin{array}{r} 73.5 \\ 22.4 \\ 16.4 \\ 5.8 \end{array}$ |
| Highest degree attained None Certificate Associate's degree Bachelor's degree | $\begin{gathered} \dagger \\ 69.6 \\ 58.3 \\ 85.9 \end{gathered}$ | $\begin{array}{r} 26.5 \\ 8.7 \\ 23.9 \\ 7.4 \\ \hline \end{array}$ | $\begin{array}{r} 73.5 \\ 21.8 \\ 17.8 \\ 6.7 \\ \hline \end{array}$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary StudentsLongitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 12.2—Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the last spell of continuous enrollment, by demographic characteristics

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: |
| Total | 37.7 | 19.0 | 43.3 |
| Gender |  |  |  |
| Male | 34.5 | 20.9 | 44.6 |
| Female | 40.5 | 17.3 | 42.2 |
| Age when began last spell |  |  |  |
| 18 years or younger | 62.3 | 7.3 | 30.4 |
| 19 years | 42.2 | 10.2 | 47.6 |
| 20-29 years | 24.7 | 30.2 | 45.1 |
| 30 years or older | 23.8 | 8.8 | 67.4 |
| Socioeconomic status |  |  |  |
| Lowest quartile | 30.3 | 10.9 | 58.9 |
| Middle quartiles | 33.7 | 20.0 | 46.3 |
| Highest quartile | 45.1 | 20.8 | 34.2 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | 31.9 | 37.9 | 30.2 |
| Asian/Pacific Islander | 43.0 | 28.2 | 28.8 |
| Black, non-Hispanic | 30.7 | 17.7 | 51.6 |
| Hispanic | 32.5 | 23.8 | 43.6 |
| White, non-Hispanic | 38.9 | 18.0 | 43.1 |
| Marital status when began last spell |  |  |  |
| Not married | 41.3 | 18.9 | 39.8 |
| Married | 24.5 | 15.8 | 59.7 |
| Separated | 39.1 | 0.8 | 60.1 |
| Parental education |  |  |  |
| Less than high school diploma | 33.6 | 10.6 | 55.8 |
| High school diploma | 35.0 | 15.7 | 49.2 |
| Some postsecondary | 37.6 | 20.1 | 42.3 |
| Bachelor's or higher | 43.3 | 25.5 | 31.3 |
| Dependency status in 1989-90 |  |  |  |
| Dependent | 41.6 | 21.0 | 37.4 |
| Independent | 26.5 | 13.2 | 60.4 |
| Income and dependency status in 1989-90 |  |  |  |
| Dependent |  |  |  |
| Less than \$20,000 | 36.9 | 19.7 | 43.5 |
| \$20,000-39,999 | 37.9 | 22.0 | 40.1 |
| \$40,000-59,999 | 44.0 | 19.7 | 36.3 |
| \$60,000 or more | 48.9 | 22.5 | 28.6 |
| Independent |  |  |  |
| Less than \$10,000 | 30.4 | 14.6 | 55.0 |
| \$10,000-19,999 | 28.3 | 12.5 | 59.3 |
| \$20,000 or more | 19.8 | 11.9 | 68.4 |

${ }^{1}$ Without return as of spring 1994.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 12.3-Percentage distribution of 1989-90 beginning postsecondary students according to persistence and attainment during the last spell of continuous enrollment, by persistence risk factors when they began last spell

|  | Attained degree at end of spell | $\begin{gathered} \text { Still } \\ \text { enrolled } \\ \text { in } \\ \text { spring } 1994 \\ \hline \end{gathered}$ | Left without return ${ }^{1}$ at end of spell |
| :---: | :---: | :---: | :---: |
| Total | 37.7 | 19.0 | 43.3 |
| Number of risk factors when began last spell ${ }^{2}$ |  |  |  |
| None | 56.5 | 18.8 | 24.8 |
| One | 38.7 | 23.6 | 37.6 |
| Two | 25.5 | 21.4 | 53.2 |
| Three or more | 21.4 | 14.2 | 64.4 |
| High school diploma or equivalency status |  |  |  |
| High school diploma | 38.3 | 19.9 | 41.8 |
| GED or high school equivalent | 28.6 | 6.2 | 65.2 |
| Delayed postsecondary enrollment |  |  |  |
| Did not delay | 43.7 | 21.8 | 34.5 |
| Delayed | 25.3 | 13.1 | 61.5 |
| Attendance status when began last spell |  |  |  |
| Full time | 57.5 | 11.5 | 31.0 |
| Part time | 17.8 | 16.0 | 66.2 |
| Dependency status when began last spell |  |  |  |
| Dependent | 52.2 | 16.8 | 31.0 |
| Independent | 24.2 | 21.0 | 54.8 |
| Number of children when began last spell |  |  |  |
| None | 40.8 | 20.2 | 39.0 |
| One or more | 26.7 | 12.4 | 61.0 |
| Single parent status when began last spell 40.18 |  |  |  |
| Not a single parent | 40.1 | 18.7 | 41.2 |
| Single parent | 26.4 | 13.4 | 60.2 |
| Worked full time while enrolled when began last spell |  |  |  |
| Did not work full time | 46.1 | 18.9 | 35.0 |
| Worked full time | 25.4 | 16.7 | 57.9 |

${ }^{1}$ Without return as of spring 1994.
${ }^{2}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
${ }^{3}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

## Section 13

## Annual Persistence and Attainment of Bachelor Degree Seekers at 4-year Institutions

Table 13.1-Heeteyeagesstistutibntion989a@ual persistence and attainment outcomes among 1989-90 beginning postsecondary bachelor's degree seekers

|  | Attained certificate in 1989-90 | $\begin{gathered} \text { Attained } \\ \text { AA } \\ \text { in } \\ 1989-90 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Attained } \\ \text { BA } \\ \text { in } \\ 1989-1990 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Persisted } \\ \text { into } \\ 1990-91 \\ \hline \end{gathered}$ | Downward or delayed transfer in 1989-90 | $\begin{gathered} \text { Stopout } \\ \text { in } \\ 1989-90 \\ \hline \end{gathered}$ | Left without return in 1989-90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bachelor's degree seekers at 4-year institutions: 1989-90 |  |  |  |  |  |  |
| Total | 0.1 | 0 | 0 | 83.7 | 8.2 | 4.0 | 4.0 |
| Gender |  |  |  |  |  |  |  |
| Male | 0.2 | 0 | 0 | 82.9 | 8.8 | 4.1 | 4.1 |
| Female | 0 | 0 | 0 | 84.5 | 7.6 | 3.9 | 4.0 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 0.1 | 0 | 0 | 85.6 | 8.0 | 3.8 | 2.5 |
| 19 years | 0.3 | 0 | 0 | 74.6 | 9.3 | 5.2 | 10.7 |
| 20-29 years | 0 | 0 | 0 | 66.5 | 9.1 | 6.6 | 17.8 |
| 30 years or older | 0 | 0 | 0 | 67.3 | 10.1 | 1.6 | 21.0 |
| Intensity of enrollment in 1989-90 |  |  |  |  |  |  |  |
| Exclusively part time | 0 | 0 | 0 | 47.7 | 26.0 | 7.4 | 18.9 |
| Mixed | 0 | 0 | 0 | 91.3 | 3.7 | 3.4 | 1.6 |
| Exclusively full time | 0.1 | 0 | 0 | 85.8 | 7.6 | 3.7 | 2.8 |
| Financial aid receipt in 1989-90 |  |  |  |  |  |  |  |
| Did not receive aid | 0.1 | 0 | 0 | 82.4 | 9.6 | 4.2 | 3.6 |
| Received aid | 0.1 | 0 | 0 | 84.7 | 7.1 | 3.8 | 4.3 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 0 | 0 | 0 | 93.8 | 1.4 | 2.7 | 2.1 |
| Black, non-Hispanic | 0 | 0 | 0 | 79.1 | 7.9 | 5.9 | 7.1 |
| Hispanic | 0 | 0 | 0 | 88.4 | 5.4 | 2.9 | 3.3 |
| White, non-Hispanic | 0.1 | 0 | 0 | 83.3 | 8.7 | 4.0 | 3.9 |
| Control of first institution |  |  |  |  |  |  |  |
| Public | 0.1 | 0 | 0 | 82.3 | 8.6 | 4.3 | 4.7 |
| Private, not-for-profit | 0.1 | 0 | 0 | 86.7 | 7.2 | 3.3 | 2.7 |
| Private, for-profit | - | - | - | - | - | - | - |

-Too few cases for a reliable estimate.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94), Data Analy

Table 13.2—Percentage distribution of annual persistence and attainment outcomes among persisting bachelor's degree seekers in 4-year institutions:


|  | Bachelor's degree seekers at 4-year institutions: 1990-91 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 0.2 | 0.2 | 0 | 90.6 | 1.5 | 5.1 | 2.5 |
| Gender |  |  |  |  |  |  |  |
| Male | 0.2 | 0.2 | 0 | 89.7 | 1.6 | 6.3 | 2.1 |
| Female | 0.1 | 0.2 | 0 | 91.3 | 1.4 | 4.1 | 2.9 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 0.1 | 0.1 | 0 | 92.0 | 1.5 | 4.7 | 1.6 |
| 19 years | 0 | 0.9 | 0 | 83.4 | 1.3 | 8.7 | 5.7 |
| 20-29 years | 1.1 | 0 | 0 | 74.2 | 1.4 | 8.9 | 14.3 |
| 30 years or older | 0 | 2.4 | 0 | 70.4 | 2.7 | 1.3 | 23.1 |
| Intensity of enrollment in 1990-91 |  |  |  |  |  |  |  |
| Exclusively part time | 0.9 | 0 | 0 | 65.9 | 5.3 | 11.4 | 16.5 |
| Mixed | 0 | 0.3 | 0 | 92.1 | 0.6 | 6.1 | 1.0 |
| Exclusively full time | 0.1 | 0.1 | 0 | 91.9 | 1.5 | 4.6 | 1.8 |
| Financial aid receipt in 1990-91 |  |  |  |  |  |  |  |
| Did not receive aid | 0.1 | 0 | 0 | 90.0 | 1.3 | 5.9 | 2.8 |
| Received aid | 0.3 | 0.3 | 0 | 91.2 | 1.8 | 4.2 | 2.3 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 0 | 0 | 0 | 94.6 | 0 | 4.1 | 1.3 |
| Black, non-Hispanic | 0 | 0.4 | 0 | 90.4 | 0.5 | 5.0 | 3.7 |
| Hispanic | 0 | 0 | 0 | 85.9 | 4.1 | 5.1 | 5.0 |
| White, non-Hispanic | 0.2 | 0.2 | 0 | 90.6 | 1.5 | 5.1 | 2.4 |
| Control of 1990-91 institution |  |  |  |  |  |  |  |
| Public | 0.1 | 0.1 | 0 | 89.2 | 1.6 | 6.0 | 3.0 |
| Private, not-for-profit | 0.2 | 0.3 | 0 | 93.8 | 1.3 | 2.9 | 1.5 |
| Private, for-profit | - | - | - | - | - | - | - |

-Too few cases for a reliable estimate.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analy

Table 13.3—Percentage distribution of annual persistence and attainment outcomes among persisting bachelor's degree seekers in 4-year institutions:


Bachelor's degree seekers at 4-year institutions: 1991-92

| Total | 0.2 | 0.3 | 4.5 | 79.5 | 6.3 | 4.8 | 4.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender |  |  |  |  |  |  |  |
| Male | 0.2 | 0.1 | 4.2 | 79.1 | 5.8 | 5.8 | 4.8 |
| Female | 0.2 | 0.5 | 4.8 | 79.8 | 6.8 | 3.9 | 4.1 |
| Age when began in 1989-90 |  |  |  |  |  |  |  |
| 18 years or younger | 0.2 | 0.3 | 3.9 | 80.4 | 6.4 | 4.8 | 4.0 |
| 19 years | 0.8 | 0 | 10.2 | 69.1 | 7.6 | 5.8 | 6.5 |
| 20-29 years | 0 | 0 | 10.7 | 77.2 | 2.9 | 1.8 | 7.4 |
| 30 years or older | - | - | - | - | - | - | - |
| Intensity of enrollment in 1991-92 |  |  |  |  |  |  |  |
| Exclusively part time | 0 | 0 | 3.3 | 36.9 | 31.4 | 12.1 | 16.3 |
| Mixed | 0.4 | 0.9 | 6.1 | 80.5 | 4.4 | 3.5 | 4.2 |
| Exclusively full time | 0.2 | 0.2 | 4.3 | 81.8 | 5.2 | 4.6 | 3.7 |
| Financial aid receipt in 1991-92 |  |  |  |  |  |  |  |
| Did not receive aid | 0.3 | 0.3 | 4.8 | 78.3 | 6.6 | 5.1 | 4.6 |
| Received aid | 0.1 | 0.3 | 4.2 | 80.8 | 6.0 | 4.5 | 4.2 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 1.1 | 0 | 2.5 | 76.8 | 8.3 | 7.6 | 3.8 |
| Black, non-Hispanic | 0 | 0 | 3.6 | 73.2 | 11.8 | 5.5 | 5.8 |
| Hispanic | 0 | 0 | 5.2 | 73.7 | 10.9 | 7.0 | 3.2 |
| White, non-Hispanic | 0.2 | 0.4 | 4.7 | 80.6 | 5.3 | 4.4 | 4.4 |
| Control of 1991-92 institution |  |  |  |  |  |  |  |
| Public | 0.2 | 0.4 | 4.2 | 77.8 | 7.3 | 4.9 | 5.2 |
| Private, not-for-profit | 0.1 | 0.1 | 5.0 | 83.4 | 4.1 | 4.7 | 2.7 |
| Private, for-profit | - | - | - | - | - | - | - |

—Too few cases for a reliable estimate.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analy

Table 13.4—Percentage distribution of annual persistence and attainment outcomes among persisting bachelor's degree seekers in 4-year institutions:


Bachelor's degree seekers at 4-year institutions: 1992-93

| Total | 0.3 | 0.6 | 40.4 | 50.7 | 2.6 | 2.3 | 3.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender |  |  |  |  |  |  |  |
| Male | 0.4 | 0.6 | 34.4 | 55.0 | 3.3 | 2.4 | 3.9 |
| Female | 0.2 | 0.6 | 45.5 | 46.9 | 2.1 | 2.3 | 2.3 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 0.3 | 0.5 | 41.5 | 50.3 | 2.4 | 2.0 | 3.0 |
| 19 years | 0 | 0 | 31.5 | 56.9 | 4.4 | 4.3 | 2.8 |
| 20-29 years | 4.2 | 5.3 | 27.6 | 49.9 | 0 | 8.4 | 4.5 |
| 30 years or older | - | - | - | - | - | - | - |
| Intensity of enrollment in 1992-93 |  |  |  |  |  |  |  |
| Exclusively part time | 0 | 3.3 | 11.2 | 42.5 | 17.4 | 6.5 | 19.2 |
| Mixed | 0.3 | 0 | 26.2 | 69.5 | 0.5 | 2.4 | 1.1 |
| Exclusively full time | 0.3 | 0.6 | 43.9 | 47.8 | 2.4 | 2.2 | 2.8 |
| Financial aid receipt in 1992-93 |  |  |  |  |  |  |  |
| Did not receive aid | 0.2 | 1.2 | 37.3 | 52.0 | 3.3 | 2.5 | 3.5 |
| Received aid | 0.5 | 0 | 43.3 | 49.5 | 2.0 | 2.2 | 2.5 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 0 | 0 | 47.4 | 44.4 | 1.4 | 5.1 | 1.6 |
| Black, non-Hispanic | 0.6 | 0 | 24.2 | 63.7 | 4.3 | 5.7 | 1.4 |
| Hispanic | 0 | 0 | 25.6 | 66.2 | 5.0 | 0.9 | 2.3 |
| White, non-Hispanic | 0.3 | 0.7 | 41.8 | 49.4 | 2.5 | 2.0 | 3.3 |
| Control of 1992-93 institution |  |  |  |  |  |  |  |
| Public | 0.1 | 0.8 | 27.5 | 63.2 | 2.7 | 2.7 | 3.0 |
| Private, not-for-profit | 0.5 | 0.2 | 65.5 | 25.7 | 0.5 | 1.9 | 2.7 |
| Private, for-profit | - | - | - | - | - | - | - |

-Too few cases for a reliable estimate.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analy

Table 13.5—Percentage distribution of annual persistence and attainment outcomes among persisting bachelor's degree seekers in 4-year institutions:

| 1993-94 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


|  | Bachelor's degree seekers at 4-year institutions: 1993-94 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 0.1 | 0.3 | 66.9 | 26.3 | 1.0 | 5.4 |
| Gender |  |  |  |  |  |  |
| Male | 0 | 0 | 63.7 | 30.6 | 1.3 | 4.3 |
| Female | 0.3 | 0.5 | 70.1 | 21.9 | 0.6 | 6.6 |
| Age when began at first institution |  |  |  |  |  |  |
| 18 years or younger | 0.1 | 0.2 | 68.1 | 25.0 | 0.8 | 5.8 |
| 19 years | 0 | 0 | 59.5 | 36.9 | 3.7 | 0 |
| 20-29 years | - | - | - | - | - | - |
| 30 years or older | - | - | - | - | - | - |
| Intensity of enrollment in 1993-94 |  |  |  |  |  |  |
| Exclusively part time | 0 | 1.0 | 62.3 | 24.8 | 0 | 11.9 |
| Mixed | 0 | 0 | 62.4 | 31.0 | 1.5 | 5.1 |
| Exclusively full time | 0.2 | 0.2 | 68.7 | 25.1 | 1.0 | 4.7 |
| Financial aid receipt in 1993-94 |  |  |  |  |  |  |
| Did not receive aid | 0 | 0.3 | 65.1 | 26.9 | 1.1 | 6.7 |
| Received aid | 0.3 | 0.2 | 68.8 | 25.7 | 0.9 | 4.1 |
| Race-ethnicity of student |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - |
| Asian/Pacific Islander | 0 | 0 | 67.5 | 22.8 | 0 | 9.8 |
| Black, non-Hispanic | 0 | 0 | 57.6 | 30.4 | 5.0 | 7.0 |
| Hispanic | 0 | 0 | 57.0 | 37.0 | 0 | 6.1 |
| White, non-Hispanic | 0.2 | 0.3 | 68.5 | 25.4 | 0.7 | 4.9 |
| Control of 1993-94 institution |  |  |  |  |  |  |
| Public | 0.2 | 0.2 | 65.3 | 27.9 | 1.2 | 5.3 |
| Private, not-for-profit | 0 | 0.5 | 74.1 | 19.1 | 0 | 6.3 |
| Private, for-profit | - | - | - | - | - | - |

-Too few cases for a reliable estimate.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analy

Table 13.6-Percentage distribution of persistence and attainment outcomes as of spring 1994 among bachelor's degree seekers in 4-year institutions who left the persistence track

| Attained | Enrolled at | Not enrolled at 4-year |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Bachelor's degree | 4-year institution | Attained associate's | Attained certificate, | No degree, |

Bachelor's degree seekers at 4-year institutions who left the persistence track

| Total | 20.6 | 15.7 | 3.9 | 4.0 | 55.8 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Gender |  |  |  |  |  |
| Male | 20.4 | 17.1 | 3.6 | 2.9 | 55.9 |
| Female | 20.8 | 14.3 | 4.2 | 5.1 | 55.6 |
| Age when began at first institution |  |  |  |  |  |
| 18 years or younger | 22.6 | 16.6 | 4.4 | 3.9 | 52.5 |
| 19 years | 15.5 | 11.7 | 1.5 | 5.8 | 65.5 |
| 20-29 years | 6.9 | 13.4 | 2.2 | 3.5 | 73.9 |
| 30 years or older | 8.7 | 8.8 | 2.1 | 2.0 | 78.4 |
| Financial aid receipt in 1989-90 |  |  |  |  |  |
| Did not receive aid | 19.0 | 16.8 | 5.6 | 4.0 | 54.7 |
| Received aid | 22.1 | 14.8 | 2.4 | 4.1 | 56.7 |
| Attendance status when began at first institution |  |  |  |  |  |
| Full time | 21.1 | 15.9 | 4.1 | 4.1 | 54.9 |
| Part time | 14.6 | 13.3 | 7.7 | 2.9 | 61.5 |
| Grade point average in 1989-90 |  |  |  |  |  |
| Less than C's | 8.6 | 9.3 | 7.3 | 6.3 | 68.5 |
| Mostly C's | 14.1 | 20.0 | 0 | 4.0 | 61.8 |
| B's and C's | 24.3 | 19.9 | 5.3 | 1.9 | 48.6 |
| Mostly B's | 27.8 | 15.7 | 3.0 | 4.8 | 48.7 |
| A's and B's | 33.6 | 17.8 | 0 | 1.8 | 46.8 |
| Mostly A's | 40.7 | 13.2 | 0 | 0 | 46.0 |
| Race-ethnicity of student |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - |
| Asian/Pacific Islander | 30.0 | 28.3 | 0 | 0 | 41.7 |
| Black, non-Hispanic | 16.5 | 20.0 | 2.8 | 6.4 | 54.3 |
| Hispanic | 21.0 | 14.9 | 2.6 | 2.5 | 59.0 |
| White, non-Hispanic | 20.6 | 14.5 | 4.3 | 4.0 | 56.5 |
| Control of first institution |  |  |  |  |  |
| Public | 17.0 | 4.2 | 17.1 | 4.5 | 57.3 |
| Private, not-for-profit | 30.0 | 3.2 | 12.3 | 2.8 | 51.8 |
| Private, for-profit | - | - | - | - | - |

-Too few cases for a reliable estimate.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

## Part II

Supplemental Descriptive Summary Tables

## Section 14

## Student Characteristics

## Section 14

## Student Characteristics

## Gender

- 54 percent of all beginning postsecondary students are female. (table 14.1)
- Students from the lowest ( 63 percent) and middle socioeconomic quartiles ( 56 percent) were more likely to be female than those from the highest quartiles (48 percent). (table 14.1)
- Financially independent students were more likely to be female (61 percent) than were dependent students ( 52 percent). (table 14.1)
- Two-thirds ( 69 percent) of the students who began postsecondary education at age 30 or older wer female. (table 14.1)


## Socioeconomic Status

- About one quarter of black, non-Hispanic ( 25 percent) and Hispanic (26 percent) students came from the lowest socioeconomic quartiles, compared to only 12 percent of white, non-Hispanic students. (table 14.3)
- White, non-Hispanic (44 percent) and Asian/Pacific Islander (41 percent) students were more likely than black, non-Hispanic (17 percent), and Hispanic ( 20 percent) students to come from the highest socioeconomic quartiles. (table 14.3)


## Parental Education Levels

- A negative relationship existed between age of entry into postsecondary education and parental education levels. Specifically, students who entered at the age of 18 or younger were three times more likely than their counterparts ages 20-29, (43 percent compared with 16 percent) and more than six times as likely as those 30 and older ( 43 percent compared with 7 percent) to have one or more parents who had attained a bachelor's degree. (table 14.6) In part, this reflects lower levels of educational attainment of earlier generations.
- Hispanic students ( 28 percent) were more likely to have parents who had not graduated from high school than American Indian/Alaskan Native (3 percent), black, non-Hispanic ( 9 percent), and white, non-Hispanic students ( 8 percent). Both Asian/ Pacific Islander ( 45 percent) and white, non-Hispanic ( 35 percent) students were more likely than black, non-Hispanic ( 25 percent) and Hispanic students ( 20 percent) to have one or more parents who had attained a bachelor's degree. (table 14.6)


## Risk Factors

- A negative relationship existed between parental education and the likelihood of a student delaying entry into postsecondary education. Students whose parents had not graduated from high school were twice as likely ( 66 percent) as students whose parents had some postsecondary education ( 24 percent), and four times as likely as students whose parents had attained a bachelor's degree ( 16 percent) to delay enrollment. (table 14.8)
- Students who entered postsecondary education at age 20 or older were more likely not to have finished high school or to have obtained a GED (20-29-16 percent, 30 or older- 22 percent) that those who entered when they were less than 20 ( 18 years or younger- 2 percent, 19 years- 5 perc (table 14.8)
- The likelihood of working full time while enrolled generally increased with age of entry into postsecondary education. For instance, one-fifth ( 20 percent) of students who began at age 18 or younger worked full time while enrolled in 1989-90, compared to about half (46 percent) of those who started at age 20 or older. (table 14.8)
- The overall proportion of students initially attending part time increased with age, with only 11 percent of those who began at age 18 or younger enrolled part time, while 62 percent of students who began at age 30 or older had done so. (table 14.8)

Table 14.1—Percentage distribution of 1989-90 beginning postsecondary students according to gender, by demographic characteristics

|  | Male | Female |
| :---: | :---: | :---: |
| Total | 46.0 | 54.0 |
| Age when began at first institution |  |  |
| 18 years or younger | 45.9 | 54.1 |
| 19 years | 56.2 | 43.8 |
| 20-29 years | 50.6 | 49.4 |
| 30 years or older | 31.2 | 68.8 |
| Socioeconomic status |  |  |
| Lowest quartile | 37.2 | 62.8 |
| Middle quartiles | 43.9 | 56.1 |
| Highest quartile | 51.7 | 48.3 |
| Race-ethnicity of student |  |  |
| American Indian/Alaskan Native | 72.4 | 27.6 |
| Asian/Pacific Islander | 40.6 | 59.4 |
| Black, non-Hispanic | 37.3 | 62.7 |
| Hispanic | 45.9 | 54.1 |
| White, non-Hispanic | 47.1 | 52.9 |
| Marital status when began at first institution |  |  |
| Not married | 48.2 | 51.8 |
| Married | 35.6 | 64.4 |
| Separated | 23.3 | 76.8 |
| Parental education |  |  |
| Less than high school diploma | 32.2 | 67.8 |
| High school diploma | 45.8 | 54.3 |
| Some postsecondary | 45.6 | 54.4 |
| Bachelor's or higher | 51.8 | 48.2 |
| Dependency status in 1989-90 |  |  |
| Dependent | 48.4 | 51.6 |
| Independent | 39.3 | 60.7 |

SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.2-Percentage distribution of 1989-90 beginning postsecondary students according to age when began at first institution, by demographic characteristics

|  | 18 years or younger | $\begin{gathered} 19 \\ \text { years } \end{gathered}$ | $\begin{array}{r} 20-29 \\ \text { years } \end{array}$ | 30 years or older |
| :---: | :---: | :---: | :---: | :---: |
| Total | 61.2 | 12.1 | 17.2 | 9.5 |
| Gender |  |  |  |  |
| Male | 60.3 | 14.6 | 18.7 | 6.4 |
| Female | 61.9 | 9.9 | 15.9 | 12.3 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 19.9 | 9.6 | 41.3 | 29.1 |
| Middle quartiles | 55.5 | 13.2 | 20.3 | 11.0 |
| Highest quartile | 82.8 | 11.8 | 4.8 | 0.7 |
| Race-ethnicity of student |  |  |  |  |
| American Indian/Alaskan Native | 56.8 | 11.5 | 28.5 | 3.1 |
| Asian/Pacific Islander | 60.8 | 15.9 | 19.4 | 3.9 |
| Black, non-Hispanic | 52.5 | 16.6 | 22.2 | 8.7 |
| Hispanic | 56.0 | 13.9 | 23.1 | 7.0 |
| White, non-Hispanic | 62.8 | 11.1 | 15.8 | 10.3 |
| Marital status when began at first institution |  |  |  |  |
| Not married | 69.9 | 13.6 | 13.7 | 2.8 |
| Married | 6.3 | 1.7 | 37.3 | 54.7 |
| Separated | 6.1 | 1.7 | 64.5 | 27.7 |
| Parental education |  |  |  |  |
| Less than high school diploma | 29.6 | 10.3 | 32.7 | 27.3 |
| High school diploma | 55.2 | 12.8 | 23.8 | 8.3 |
| Some postsecondary | 66.7 | 14.4 | 14.6 | 4.3 |
| Bachelor's or higher | 79.2 | 11.5 | 8.0 | 1.3 |
| Dependency status in 1989-90 |  |  |  |  |
| Dependent | 79.2 | 14.6 | 6.1 | 0 |
| Independent | 9.1 | 4.8 | 49.0 | 37.0 |

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.3-Percentage distribution of 1989-90 beginning postsecondary students according to socioeconomic status, by demographic characteristics

|  | Lowest quartile | Middle quartiles | Highest quartile |
| :---: | :---: | :---: | :---: |
| Total | 14.7 | 45.7 | 39.7 |
| Gender |  |  |  |
| Male | 11.8 | 43.6 | 44.6 |
| Female | 17.1 | 47.4 | 35.5 |
| Age when began at first institution |  |  |  |
| 18 years or younger | 4.8 | 41.3 | 53.9 |
| 19 years | 11.7 | 49.6 | 38.8 |
| 20-29 years | 35.1 | 53.8 | 11.1 |
| 30 years or older | 44.6 | 52.6 | 2.7 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | 27.1 | 55.0 | 17.9 |
| Asian/Pacific Islander | 22.8 | 36.1 | 41.2 |
| Black, non-Hispanic | 25.3 | 57.9 | 16.9 |
| Hispanic | 26.2 | 54.0 | 19.8 |
| White, non-Hispanic | 11.8 | 43.9 | 44.3 |
| Marital status when began at first institution |  |  |  |
| Not married | 10.6 | 44.0 | 45.4 |
| Married | 37.3 | 59.1 | 3.6 |
| Separated | 55.1 | 42.5 | 2.4 |
| Parental education |  |  |  |
| Less than high school diploma | 48.8 | 45.8 | 5.5 |
| High school diploma | 16.0 | 62.0 | 22.0 |
| Some postsecondary | 8.2 | 53.6 | 38.2 |
| Bachelor's or higher | 2.2 | 24.1 | 73.7 |
| Dependency status in 1989-90 |  |  |  |
| Dependent | 5.5 | 42.7 | 51.8 |
| Independent | 40.8 | 53.9 | 5.3 |

SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.4—Percentage distribution of 1989-90 beginning postsecondary students according to race-ethnicity of student, by demographic characteristics

|  | American Indian/ Alaskan Native | Asian/ <br> Pacific <br> Islander | Black, nonHispanic | Hispanic | White, nonHispanic |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 0.7 | 4.0 | 8.8 | 7.6 | 78.8 |
| Gender |  |  |  |  |  |
| Male | 1.1 | 3.6 | 7.2 | 7.6 | 80.6 |
| Female | 0.4 | 4.4 | 10.3 | 7.6 | 77.3 |
| Age when began at first institution |  |  |  |  |  |
| 18 years or younger | 0.6 | 3.7 | 7.8 | 7.4 | 80.5 |
| 19 years | 0.6 | 4.9 | 12.6 | 9.3 | 72.4 |
| 20-29 years | 1.1 | 4.2 | 11.8 | 10.9 | 72.0 |
| 30 years or older | 0.2 | 1.5 | 8.3 | 5.9 | 84.0 |
| Socioeconomic status |  |  |  |  |  |
| Lowest quartile | 1.4 | 6.3 | 15.2 | 13.6 | 63.6 |
| Middle quartiles | 0.9 | 3.2 | 11.2 | 9.0 | 75.8 |
| Highest quartile | 0.3 | 4.2 | 3.8 | 3.8 | 87.9 |
| Marital status when began at first institution |  |  |  |  |  |
| Not married | 0.7 | 3.5 | 9.4 | 8.1 | 78.2 |
| Married | 0.3 | 3.7 | 6.2 | 7.3 | 82.5 |
| Separated | 0.9 | 1.5 | 7.6 | 10.4 | 79.7 |
| Parental education |  |  |  |  |  |
| Less than high school diploma | 0.3 | 7.2 | 7.8 | 21.8 | 63.0 |
| High school diploma | 1.2 | 2.5 | 9.6 | 7.2 | 79.5 |
| Some postsecondary | 0.2 | 2.9 | 10.7 | 6.4 | 79.9 |
| Bachelor's or higher | 0.8 | 5.3 | 6.3 | 4.4 | 83.1 |
| Dependency status in 1989-90 |  |  |  |  |  |
| Dependent | 0.7 | 4.6 | 8.5 | 7.6 | 78.5 |
| Independent | 0.7 | 2.3 | 9.9 | 7.5 | 79.6 |

SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.5—Percentage distribution of 1989-90 beginning postsecondary students according to marital status when began at first institution, by demographic characteristics

|  | Not married | Married | Separated |
| :---: | :---: | :---: | :---: |
| Total | 86.7 | 12.1 | 1.2 |
| Gender |  |  |  |
| Male | 90.1 | 9.3 | 0.6 |
| Female | 83.7 | 14.6 | 1.7 |
| Age when began at first institution |  |  |  |
| 18 years or younger | 98.6 | 1.3 | 0.1 |
| 19 years | 98.2 | 1.7 | 0.2 |
| 20-29 years | 69.2 | 26.4 | 4.4 |
| 30 years or older | 25.7 | 70.9 | 3.5 |
| Socioeconomic status |  |  |  |
| Lowest quartile | 63.9 | 31.6 | 4.5 |
| Middle quartiles | 83.3 | 15.6 | 1.1 |
| Highest quartile | 98.8 | 1.1 | 0.1 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | 93.4 | 5.0 | 1.6 |
| Asian/Pacific Islander | 86.7 | 12.8 | 0.5 |
| Black, non-Hispanic | 90.7 | 8.3 | 1.0 |
| Hispanic | 87.4 | 11.1 | 1.5 |
| White, non-Hispanic | 86.1 | 12.7 | 1.2 |
| Parental education |  |  |  |
| Less than high school diploma | 66.7 | 30.9 | 2.5 |
| High school diploma | 84.2 | 14.3 | 1.5 |
| Some postsecondary | 91.5 | 7.5 | 1.0 |
| Bachelor's or higher | 96.6 | 3.2 | 0.1 |
| Dependency status in 1989-90 |  |  |  |
| Dependent | 99.5 | 0.5 | 0 |
| Independent | 49.4 | 46.0 | 4.6 |

SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.6-Percentage distribution of 1989-90 beginning postsecondary students according to parental education, by demographic characteristics

| education, by demographic characteristics |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | $\begin{array}{c}\text { Less } \\ \text { than high } \\ \text { school } \\ \text { diploma }\end{array}$ | $\begin{array}{c}\text { High } \\ \text { school } \\ \text { diploma }\end{array}$ | $\begin{array}{c}\text { Some } \\ \text { postsecondary }\end{array}$ | $\begin{array}{c}\text { Bachelor's } \\ \text { or }\end{array}$ |
| higher |  |  |  |  |$]$

SOURCE:U.S.Departmentof Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.7—Percentage distribution of 1989-90 beginning postsecondary students according to dependency
status in 1989-90, by demographic characteristics

|  | Dependent | Independent |
| :---: | :---: | :---: |
| Total | 74.0 | 26.0 |
| Gender |  |  |
| Male | 77.8 | 22.2 |
| Female | 70.7 | 29.3 |
| Age when began at first institution |  |  |
| 18 years or younger | 96.1 | 3.9 |
| 19 years | 89.8 | 10.2 |
| 20-29 years | 26.5 | 73.5 |
| 30 years or older | 0 | 100.0 |
| Socioeconomic status 27.6 |  |  |
| Lowest quartile | 27.6 | 72.4 |
| Middle quartiles | 69.3 | 30.7 |
| Highest quartile | 96.5 | 3.5 |
| Race-ethnicity of student |  |  |
| American Indian/Alaskan Native | 74.9 | 25.1 |
| Asian/Pacific Islander | 85.2 | 14.9 |
| Black, non-Hispanic | 71.0 | 29.0 |
| Hispanic | 74.2 | 25.8 |
| White, non-Hispanic | 73.7 | 26.3 |
| Marital status when began at first institution |  |  |
| Not married | 85.4 | 14.6 |
| Married | 2.9 | 97.1 |
| Separated | 0 | 100.0 |
| Parental education |  |  |
| Less than high school diploma | 38.7 | 61.3 |
| High school diploma | 69.9 | 30.1 |
| Some postsecondary | 80.2 | 19.9 |
| Bachelor's or higher | 91.1 | 8.9 |

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.8—Percentage of 1989-90 beginning postsecondary students with component persistence risk factors when they began at first institution, by demographic characteristics

|  | Persistence risk factors when began at first institution |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | GED, cert. of completion ${ }^{1}$ | Delayed postsecondary entry | Financially ${ }^{2}$ independent | Had children | Single <br> parent | Enrolled part time | Worked full time while enrolled |
| Total | 6.4 | 33.0 | 37.7 | 13.9 | 5.4 | 23.9 | 28.3 |
| Gender |  |  |  |  |  |  |  |
| Male | 5.5 | 31.2 | 35.3 | 7.8 | 2.0 | 22.8 | 34.5 |
| Female | 7.2 | 34.4 | 39.7 | 19.1 | 8.3 | 24.9 | 23.0 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 1.7 | 3.1 | 14.4 | 1.3 | 0.8 | 11.1 | 20.4 |
| 19 years | 4.7 | 40.0 | 37.3 | 2.6 | 1.5 | 25.4 | 28.9 |
| 20-29 years | 15.8 | 94.8 | 87.7 | 32.6 | 16.6 | 49.7 | 47.0 |
| 30 years or older | 21.8 | 100.0 | 98.3 | 77.7 | 20.0 | 62.0 | 45.0 |
| Socioeconomic status |  |  |  |  |  |  |  |
| Lowest quartile | 19.0 | 75.4 | 83.7 | 42.8 | 21.7 | 43.8 | 39.8 |
| Middle quartiles | 7.1 | 38.8 | 42.6 | 15.8 | 4.6 | 29.5 | 29.6 |
| Highest quartile | 1.0 | 10.5 | 15.4 | 1.4 | 0.5 | 11.0 | 22.8 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan | 22.5 | 52.0 | 46.7 | 3.8 | 0 | 0 | 33.8 |
| Native |  |  |  |  |  |  |  |
| Asian/Pacific Islander | 6.7 | 29.2 | 34.7 | 9.1 | 1.4 | 21.5 | 18.6 |
| Black, non-Hispanic | 6.2 | 37.2 | 42.5 | 17.7 | 12.0 | 23.7 | 21.2 |
| Hispanic | 8.4 | 37.0 | 46.8 | 14.1 | 6.3 | 42.6 | 27.9 |
| White, non-Hispanic | 6.1 | 32.1 | 36.3 | 13.7 | 4.7 | 22.2 | 29.6 |
| Marital status when began at first institution |  |  |  |  |  |  |  |
| Not married | 4.2 | 22.8 | 28.6 | 5.6 | 5.6 | 18.5 | 25.5 |
| Married | 18.7 | 94.1 | 94.3 | 70.6 | $\dagger$ | 59.8 | 48.1 |
| Separated | 32.3 | 91.0 | 92.5 | 53.3 | 53.3 | 45.8 | 27.8 |
| Parental education |  |  |  |  |  |  |  |
| Less than HS diploma | 15.9 | 65.7 | 76.1 | 38.4 | 15.8 | 41.2 | 39.5 |
| High school diploma | 6.6 | 40.0 | 44.2 | 15.5 | 5.6 | 29.8 | 31.3 |
| Some postsecondary | 4.3 | 24.2 | 30.0 | 9.4 | 3.7 | 19.9 | 23.9 |
| Bachelor's or higher | 2.8 | 15.6 | 19.5 | 3.3 | 1.3 | 12.6 | 23.4 |
| Dependency status in 1989-90 |  |  |  |  |  |  |  |
| Dependent | 2.2 | 13.3 | 19.3 | 0.1 | 0.1 | 14.5 | 22.2 |
| Independent | 18.4 | 88.9 | 90.8 | 55.3 | 20.9 | 51.9 | 46.2 |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Includes a few students with no high school credential.
${ }^{2}$ For federal tax purposes.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.9—Percentage distribution of 1989-90 beginning postsecondary students according to age when began at first institution, by first institution attended, first degree working toward, and highest degree attained

|  | 18 <br> years or younger | $\begin{gathered} 19 \\ \text { years } \\ \hline \end{gathered}$ | $\begin{array}{r} 20-29 \\ \text { years } \\ \hline \end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Total | 61.2 | 12.1 | 17.2 | 9.5 |
| Level and control of first institution4-year |  |  |  |  |
|  |  |  |  |  |
| Public | 83.0 | 9.2 | 5.3 | 2.5 |
| Private, not-for-profit | 84.8 | 8.2 | 4.3 | 2.8 |
| Private, for-profit | - | - | - | - |
| 2-year |  |  |  |  |
| Public | 48.2 | 14.1 | 23.4 | 14.2 |
| Private, not-for-profit | 73.1 | 12.5 | 11.9 | 2.5 |
| Private, for-profit | 35.1 | 17.9 | 34.0 | 12.9 |
| Less-than-2-year |  |  |  |  |
| Public | 26.4 | 20.4 | 28.1 | 25.1 |
| Private, not-for-profit | 9.1 | 9.0 | 60.9 | 21.0 |
| Private, for-profit | 25.1 | 14.3 | 42.0 | 18.6 |
| Level of first institution |  |  |  |  |
| 4 -year | 83.6 | 8.9 | 4.9 | 2.6 |
| 2-year | 48.1 | 14.4 | 23.8 | 13.7 |
| Less-than-2-year | 24.7 | 15.4 | 39.8 | 20.1 |
| Control of first institution |  |  |  |  |
| Public | 61.0 | 12.4 | 16.6 | 10.0 |
| Private, not-for-profit | 81.8 | 8.7 | 6.3 | 3.1 |
| Private, for-profit | 28.8 | 15.6 | 39.1 | 16.5 |
| Degree working toward at first institution |  |  |  |  |
| None | 32.3 | 17.6 | 23.2 | 27.0 |
| Certificate | 30.2 | 12.3 | 38.0 | 19.5 |
| Associate's degree | 49.3 | 15.1 | 23.1 | 12.5 |
| Bachelor's degree | 80.9 | 10.0 | 6.8 | 2.2 |
| Highest degree attained |  |  |  |  |
| None | 51.5 | 14.3 | 21.4 | 12.8 |
| Certificate | 34.0 | 14.7 | 32.9 | 18.4 |
| Associate's degree | 68.4 | 13.6 | 12.6 | 5.5 |
| Bachelor's degree | 90.4 | 5.8 | 3.1 | 0.6 |

-Too few cases for a reliable estimate.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 14.10-Percentage distribution of 1989-90 beginning postsecondary students according to level of first institution, by selected demographic and institutional characteristics

|  | 4-year | Less-than- |  |
| :---: | :---: | :---: | :---: |
|  |  | 2-year | 2-year |
| Total | 42.2 | 49.2 | 8.6 |
| Gender |  |  |  |
| Male | 42.8 | 50.4 | 6.8 |
| Female | 41.6 | 48.2 | 10.2 |
| Age when began at first institution |  |  |  |
| 18 years or younger | 57.7 | 38.8 | 3.5 |
| 19 years | 30.8 | 58.2 | 10.9 |
| 20-29 years | 12.1 | 68.0 | 19.9 |
| 30 years or older | 11.5 | 70.5 | 18.0 |
| Socioeconomic status |  |  |  |
| Lowest quartile | 16.2 | 63.1 | 20.7 |
| Middle quartiles | 34.2 | 56.2 | 9.7 |
| Highest quartile | 60.8 | 36.2 | 3.0 |
| Control of first institution |  |  |  |
| Public | 38.4 | 59.1 | 2.5 |
| Private, not-for-profit | 86.9 | 10.9 | 2.2 |
| Private, for-profit | 0 | 36.9 | 63.1 |
| Degree working toward at first institution 15.0 |  |  |  |
| None | 15.0 | 82.3 | 2.6 |
| Certificate | 3.2 | 45.2 | 51.6 |
| Associate's degree | 9.1 | 89.9 | 1.0 |
| Bachelor's degree | 76.5 | 23.2 | 0.3 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | 29.3 | 52.5 | 18.2 |
| Asian/Pacific Islander | 50.7 | 45.2 | 4.0 |
| Black, non-Hispanic | 36.0 | 49.6 | 14.4 |
| Hispanic | 24.0 | 67.2 | 8.8 |
| White, non-Hispanic | 44.4 | 47.6 | 8.0 |
| Dependency status in 1989-90 |  |  |  |
| Dependent | 52.0 | 43.3 | 4.7 |
| Independent | 13.9 | 66.2 | 19.8 |

SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 14.11—Percentage distribution of 1989-90 beginning postsecondary students according to control of first institution, by selected demographic and institutional characteristics

|  | Public | Private, not-for-profit | Private, for-profit |
| :---: | :---: | :---: | :---: |
| Total | 74.0 | 15.8 | 10.2 |
| Gender |  |  |  |
| Male | 76.5 | 16.2 | 7.2 |
| Female | 71.8 | 15.4 | 12.7 |
| Age when began at first institution |  |  |  |
| 18 years or younger | 74.0 | 21.2 | 4.8 |
| 19 years | 75.5 | 11.3 | 13.1 |
| 20-29 years | 71.1 | 5.8 | 23.1 |
| 30 years or older | 77.3 | 5.2 | 17.5 |
| Socioeconomic status |  |  |  |
| Lowest quartile | 71.4 | 6.7 | 21.8 |
| Middle quartiles | 75.6 | 12.0 | 12.4 |
| Highest quartile | 73.2 | 23.5 | 3.4 |
| Level of first institution |  |  |  |
| 4-year | 67.4 | 32.5 | 0 |
| 2-year | 88.9 | 3.5 | 7.7 |
| Less-than-2-year | 21.4 | 4.0 | 74.6 |
| Degree working toward at first institution $\quad 93.3$ - 1.5 |  |  |  |
| None | 93.3 | 5.2 | 1.5 |
| Certificate | 49.0 | 4.5 | 46.5 |
| Associate's degree | 85.3 | 6.8 | 7.9 |
| Bachelor's degree | 73.3 | 25.7 | 1.0 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | 65.1 | 13.9 | 21.1 |
| Asian/Pacific Islander | 79.5 | 15.4 | 5.1 |
| Black, non-Hispanic | 68.4 | 11.4 | 20.2 |
| Hispanic | 77.3 | 9.8 | 13.0 |
| White, non-Hispanic | 74.2 | 17.0 | 8.9 |
| Dependency status in 1989-90 |  |  |  |
| Dependent | 74.7 | 19.1 | 6.1 |
| Independent | 72.1 | 6.1 | 21.8 |

SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

## Section 15

## Education Financing

## Section 15

## Education Financing

- A majority (58 percent) of 1989-90 beginning postsecondary students received financial aid to help meet educational costs at some time during the 5 -year period. Almost half ( 47 percent) received grants or scholarships, and about one-third (31 percent) had student loans. (table 15.1)
- Black, non-Hispanic students were more likely to take out student loans to finance their education (42 percent) than either Hispanic (27 percent), white, non-Hispanic (31 percent), or Asian (26 percent) students. (table 15.1)
- Among dependent students, 83 percent ever received financial contributions from their parents to attend postsecondary education, while 19 percent of independent students did so. Nearly onequarter ( 24 percent) of all students borrowed from their parents at some time to help meet educational costs. (table 15.2)
- Although those attending private, for-profit institutions represented only 10 percent of all first-time beginners in 1989-90, they made up 40 percent of those whose only source of financial aid was student loans in 1989-90. (table 15.3)
- Among students who began postsecondary education in 1989-90, those who received financial aid were more likely to have attained a degree by 1994 ( 58 percent) than those who did not receive an: financial aid ( 39 percent). Those who received grants were more likely to have attained a degree (59 percent) than those who did not receive grants (42 percent). Moreover, those who took out student loans were more likely to have attained a degree ( 63 percent) than those who did not borrow (44 percent). (table 15.4)
- Nearly 70 percent of those who received financial aid had either attained a degree or were still enrolled after 5 years, compared with 54 percent of those who received no aid. Among those with three or more of the risk factors associated with high attrition, 53 percent of those with aid had attained a degree or were still enrolled, compared with 29 percent of those without financial aid. (table 15.5)
- Nearly half (49 percent) of the students borrowed at some time while enrolled to meet educational costs, including loans from parents and relatives as well as student loans. Those who last attended public less-than-4-year institutions were the least likely to borrow (33 percent). (table 15.6)
- The average amount borrowed from any source for undergraduate education was about $\$ 7,300$, but there was much variation according to the last type of institution attended, ranging from about $\$ 11,800$ at private, not-for-profit 4-year institutions to $\$ 3,700$ at public less-than-4-year institutions. The average amount borrowed by bachelor's degree recipients was $\$ 8,900$ for those who last attended public 4 -year institutions, and $\$ 12,800$ for those who last attended private, not-for-profit 4 -year institutions. (table 15.7)
- Almost one-fifth (18 percent) of the students who had left postsecondary education without attaining a credential owed money on an educational loan in 1994, compared with 36 percent of those who had attained a credential or were still enrolled. The average amount owed by those who had not attained a credential and were no longer enrolled was $\$ 5,200$ for those who last attended a 4 -year institution, $\$ 2,900$ for those who last attended a 2 -year institution, and $\$ 2,000$ for those who last attended a less-than-2 year institution. (tables 15.8a-15.8b)
- Of those students who had borrowed for their education, about half ( 52 percent) were repaying the loans in 1994. One-fifth ( 20 percent) of the dependent students in repayment were receiving help to do so. The average monthly loan payment for about half of the students ( 55 percent) was betwet \$50-\$99. (tables 15.9a-15.9b)

Table 15.1—Percentage of 1989-90 beginning postsecondary students ever receiving financial aid as of spring 1994 according to type of aid received, by selected demographic and institutional characteristics

|  | Any financial aid | Grants | Loans | Employer aid |
| :---: | :---: | :---: | :---: | :---: |
| Total | 57.6 | 47.1 | 31.2 | 7.1 |
| Gender |  |  |  |  |
| Male | 54.8 | 43.5 | 29.0 | 7.6 |
| Female | 60.0 | 50.3 | 33.1 | 6.6 |
| Age when began at first institution |  |  |  |  |
| 18 years or younger | 59.5 | 49.4 | 35.3 | 4.9 |
| 19 years | 56.7 | 43.9 | 31.6 | 8.6 |
| 20-29 years | 58.1 | 45.7 | 29.0 | 9.6 |
| 30 years or older | 55.6 | 45.5 | 17.1 | 14.8 |
| Number of risk factors when began at first institution ${ }^{*}$ |  |  |  |  |
| None | 63.4 | 52.9 | 37.8 | 5.6 |
| One | 55.6 | 44.7 | 31.6 | 4.7 |
| Two | 53.5 | 41.1 | 31.6 | 4.5 |
| Three or more | 55.0 | 44.7 | 22.9 | 12.9 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 68.9 | 60.8 | 30.9 | 8.8 |
| Middle quartiles | 61.2 | 50.3 | 36.7 | 8.0 |
| Highest quartile | 49.3 | 38.4 | 25.0 | 5.3 |
| Race-ethnicity of student |  |  |  |  |
| American Indian/Alaskan Native | 66.3 | 56.9 | 38.1 | 0.5 |
| Asian/Pacific Islander | 58.6 | 51.8 | 26.3 | 4.8 |
| Black, non-Hispanic | 65.2 | 58.6 | 41.9 | 3.8 |
| Hispanic | 55.3 | 47.4 | 26.8 | 7.3 |
| White, non-Hispanic | 56.8 | 45.5 | 30.6 | 7.5 |
| Dependency status in 1989-90 |  |  |  |  |
| Dependent | 57.1 | 47.1 | 33.0 | 4.9 |
| Independent | 59.0 | 47.2 | 25.9 | 13.1 |
| Income and dependency status in 1989-90 |  |  |  |  |
| Dependent |  |  |  |  |
| Less than \$20,000 | 73.3 | 70.4 | 44.3 | 4.8 |
| \$20,000-39,999 | 63.4 | 52.4 | 40.6 | 5.4 |
| \$40,000-59,999 | 52.1 | 37.5 | 28.6 | 6.0 |
| \$60,000 or more | 37.3 | 26.8 | 15.7 | 3.0 |
| Independent |  |  |  |  |
| Less than \$10,000 | 66.9 | 59.8 | 33.7 | 6.0 |
| \$10,000-19,999 | 58.7 | 44.1 | 28.5 | 11.2 |
| \$20,000 or more | 49.3 | 34.1 | 14.1 | 23.6 |
| Total costs in 1989-90 |  |  |  |  |
| Less than \$4,000 | 42.8 | 33.9 | 16.3 | 5.8 |
| \$4,000-7,999 | 62.2 | 50.4 | 33.0 | 8.5 |
| \$8,000-11,999 | 72.6 | 60.7 | 45.8 | 7.8 |
| \$12,000 or more | 72.4 | 62.2 | 53.2 | 6.3 |

Table 15.1—Percentage of 1989-90 beginning postsecondary students ever receiving financial aid as of spring 1994 according to type of aid received, by selected demographic and institutional characteristics-Continued

|  | financial aid | Any <br> Grants | Loans | Employer aid |
| :---: | :---: | :---: | :---: | :---: |
| Level and control of first institution |  |  |  |  |
| 4-year |  |  |  |  |
| Public | 63.0 | 49.6 | 37.2 | 6.4 |
| Private, not-for-profit | 78.9 | 72.4 | 53.8 | 9.4 |
| Private, for profit | - | - | - | - |
| 2-year |  |  |  |  |
| Public | 42.9 | 34.7 | 14.3 | 7.6 |
| Private, not-for-profit | 66.6 | 62.5 | 40.7 | 6.1 |
| Private, for-profit | 83.7 | 58.4 | 69.1 | 5.5 |
| Less-than-2-year |  |  |  |  |
| Public | 58.7 | 47.8 | 12.6 | 6.6 |
| Private, not-for-profit | 92.4 | 70.7 | 44.0 | 11.6 |
| Private, for-profit | 82.8 | 63.8 | 64.1 | 3.6 |
| Level of first institution |  |  |  |  |
| 4 -year | 68.2 | 57.1 | 42.6 | 7.3 |
| 2-year | 46.8 | 37.5 | 19.4 | 7.4 |
| Less-than-2-year | 78.0 | 60.6 | 52.3 | 4.6 |
| Control of first institution |  |  |  |  |
| Public | 51.0 | 40.8 | 23.1 | 7.1 |
| Private, not-for-profit | 77.8 | 71.3 | 52.2 | 9.1 |
| Private, for-profit | 83.1 | 61.8 | 65.9 | 4.3 |
| Persistence and attainment as of spring 1994 |  |  |  |  |
| Attained degree | 67.3 | 55.9 | 40.6 | 6.7 |
| No degree, enrolled | 53.3 | 43.1 | 28.3 | 11.6 |
| No degree, not enrolled | 48.5 | 38.3 | 21.7 | 6.1 |
| Highest degree attained 79.8 |  |  |  |  |
| None | 49.8 | 39.6 | 23.4 | 7.5 |
| Certificate | 65.7 | 50.9 | 40.2 | 7.2 |
| Associate's degree | 60.6 | 50.1 | 32.0 | 6.0 |
| Bachelor's degree | 71.1 | 61.0 | 44.6 | 6.7 |

-Too few cases for a reliable estimate.
*Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a singleparent, part time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 15.2—Percentage of 1989-90 beginning postsecondary students ever receiving assistance from family or using personal savings as of spring 1994 according to type of assistance received, by selected demographic and institutional characteristics


Table 15.2—Percentage of 1989-90 beginning postsecondary students ever receiving assistance from family or using personal savings as of spring 1994 according to type of assistance received, by selected demographic and institutional characteristics-Continued

|  | Spouse or other relative financial assistance | Parents' financial contribution | Personal savings |  |
| :---: | :---: | :---: | :---: | :---: |
| Level and control of first institution |  |  |  |  |
| 4 -year |  |  |  |  |
| Public | 33.3 | 85.8 | 85.9 | 25.8 |
| Private, not-for-profit | 34.8 | 88.2 | 87.0 | 26.8 |
| Private, for-profit | - | - | - | - |
| 2-year |  |  |  |  |
| Public | 27.9 | 55.9 | 79.0 | 21.9 |
| Private, not-for-profit | 31.8 | 75.9 | 80.4 | 20.8 |
| Private, for-profit | 26.6 | 49.4 | 60.2 | 24.4 |
| Less-than-2-year |  |  |  |  |
| Public | 26.8 | 37.1 | 66.3 | 16.9 |
| Private, not-for-profit | 13.8 | 15.2 | 59.4 | 34.9 |
| Private, for-profit | 26.3 | 39.0 | 59.3 | 16.1 |
| Level of first institution |  |  |  |  |
| 4 -year | 33.8 | 86.6 | 86.3 | 26.1 |
| 2-year | 28.0 | 56.1 | 77.6 | 22.1 |
| Less-than-2-year | 25.9 | 37.6 | 60.8 | 17.1 |
| Control of first institution |  |  |  |  |
| Public | 30.0 | 66.9 | 81.4 | 23.4 |
| Private, not-for-profit | 34.0 | 85.3 | 85.7 | 26.3 |
| Private, for-profit | 26.4 | 42.8 | 59.6 | 19.2 |
| Persistence and attainment as of spring 1994 |  |  |  |  |
| Attained degree | 33.0 | 76.8 | 85.1 | 24.1 |
| No degree, enrolled | 33.1 | 76.4 | 91.9 | 24.7 |
| No degree, not enrolled | 25.2 | 51.4 | 68.5 | 21.9 |
| Highest degree attained |  |  |  |  |
| None | 27.3 | 58.1 | 74.8 | 22.7 |
| Certificate | 32.9 | 50.8 | 74.3 | 19.9 |
| Associate's degree | 29.2 | 74.8 | 84.3 | 25.9 |
| Bachelor's degree | 34.7 | 90.7 | 90.7 | 25.3 |

-Too few cases for a reliable estimate.
*Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.

SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 15.3—Percentage distribution of 1989-90 beginning postsecondary students according to level and control of first institution, by education financing during the 1989-90 academic year

|  | Public <br> 4-year | Private, not-forprofit 4-year | Public less-than-4-year | Private, not-forprofit less-than-4-year | Private, forprofit less-than-4-year |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 28.5 | 13.7 | 45.6 | 2.1 | 10.2 |
| Total costs in 1989-90 |  |  |  |  |  |
| Less than \$4,000 | 22.5 | 1.4 | 72.2 | 1.5 | 2.4 |
| \$4,000-7,999 | 43.8 | 7.1 | 37.3 | 2.0 | 9.8 |
| \$8,000-11,999 | 27.3 | 26.8 | 23.7 | 2.5 | 19.6 |
| \$12,000 or more | 11.4 | 48.2 | 16.0 | 3.2 | 21.2 |
| Total aid amount in 1989-90 |  |  |  |  |  |
| None | 27.0 | 7.0 | 60.0 | 1.6 | 4.3 |
| Less than \$2,000 | 28.5 | 8.8 | 52.3 | 2.3 | 8.1 |
| \$2,000-4,999 | 37.2 | 15.7 | 21.5 | 2.6 | 23.1 |
| \$5,000-6,999 | 33.3 | 26.3 | 7.2 | 3.8 | 29.4 |
| \$7,000 or more | 10.2 | 70.1 | 6.0 | 2.3 | 11.4 |
| Total federal aid amount in 1989-90 |  |  |  |  |  |
| None | 28.2 | 10.5 | 55.4 | 1.8 | 4.1 |
| Less than \$2,000 | 29.7 | 11.5 | 44.7 | 2.2 | 11.8 |
| \$2,000-4,999 | 32.1 | 23.4 | 14.3 | 2.9 | 27.4 |
| \$5,000-6,999 | 15.6 | 33.1 | 3.8 | 3.4 | 44.0 |
| \$7,000 or more | 7.3 | 52.1 | 0.8 | 3.4 | 36.3 |
| Total loan amount in 1989-90 |  |  |  |  |  |
| None | 28.2 | 10.3 | 54.1 | 2.0 | 5.4 |
| Less than \$1,000 | 48.8 | 15.4 | 27.2 | 1.4 | 7.2 |
| \$1,000-1,999 | 41.5 | 23.1 | 13.1 | 2.3 | 20.0 |
| \$2,000-2,999 | 25.9 | 29.0 | 7.4 | 2.6 | 35.0 |
| \$3,000 or more | 12.4 | 37.4 | 7.1 | 2.7 | 40.4 |
| Total grant amount in 1989-90 |  |  |  |  |  |
| None | 28.5 | 7.5 | 55.4 | 1.6 | 7.1 |
| Less than \$1,000 | 27.8 | 8.9 | 50.4 | 2.7 | 10.3 |
| \$1,000-1,999 | 30.0 | 13.6 | 34.1 | 2.4 | 20.0 |
| \$2,000-2,999 | 28.0 | 17.3 | 25.7 | 2.4 | 26.5 |
| \$3,000 or more | 27.7 | 55.4 | 7.1 | 3.8 | 6.0 |
| Aid package at first institution in 1989-90 |  |  |  |  |  |
| No aid | 27.1 | 7.0 | 60.2 | 1.5 | 4.2 |
| Grants, no loans | 31.6 | 19.5 | 40.5 | 3.1 | 5.3 |
| Grants and loans | 27.9 | 32.7 | 9.6 | 2.7 | 27.2 |
| Loans, no grants | 37.3 | 11.4 | 10.1 | 1.1 | 40.1 |
| Other aid | 30.7 | 10.9 | 50.4 | 1.7 | 6.3 |

SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secoral Follow-up (BPS:90/94), Data Analysis System.

Table 15.4—Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment as of spring 1994, by types of financial aid and family assistance used during postsecondary education

|  | Attained or still enrolled |  |  | No degree, not enrolled |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Attained degree | No degree, enrolled |  |
| Total | 63.2 | 50.0 | 13.3 | 36.8 |
| Received financial aid |  |  |  |  |
| Did not receive financial aid | 54.3 | 39.3 | 14.9 | 45.7 |
| Received financial aid | 69.5 | 57.5 | 12.1 | 30.5 |
| Grants |  |  |  |  |
| Did not receive grant | 56.6 | 42.1 | 14.4 | 43.4 |
| Received grant | 70.5 | 58.5 | 12.0 | 29.5 |
| Loans |  |  |  |  |
| Did not receive loan | 57.6 | 43.6 | 14.0 | 42.4 |
| Received loan | 75.1 | 63.4 | 11.7 | 24.9 |
| Employer aid |  |  |  |  |
| Did not receive employer aid | 62.8 | 50.2 | 12.6 | 37.2 |
| Received employer aid | 68.5 | 46.9 | 21.6 | 31.5 |
| Parents' financial contribution |  |  |  |  |
| Did not use parental contribution | 45.7 | 36.0 | 9.7 | 54.3 |
| Used parental contribution | 72.4 | 57.3 | 15.1 | 27.6 |
| Spouse or other relative financial assistance |  |  |  |  |
| Did not use spouse or relative financial assistance | 60.6 | 47.9 | 12.7 | 39.4 |
| Used spouse or relative financial assistance | 69.2 | 54.7 | 14.6 | 30.8 |
| Personal savings |  |  |  |  |
| Did not use personal savings | 42.7 | 37.3 | 5.4 | 57.3 |
| Used personal savings | 68.7 | 53.3 | 15.3 | 31.3 |
| Loan from parents |  |  |  |  |
| Did not use parental loan | 66.6 | 52.6 | 14.0 | 33.4 |
| Used parental loan | 69.5 | 54.5 | 15.0 | 30.5 |

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 15.5—Percentage of 1989-90 beginning postsecondary students who attained a degree or were still enrolled in 1994 according to financial aid receipt as of spring 1994 and level of first institution, by selected demographic characteristics

|  | Level of first institution |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Received aid |  |  |  | Did not receive aid |  |  |  |
|  | Total | 4-year | 2-year | $\begin{gathered} \text { Less } \\ \text { than } \\ \text { 2-year } \end{gathered}$ | Total | 4-year | 2-year | Less than 2-year |
|  | Attained or still enrolled |  |  |  |  |  |  |  |
| Total | 69.5 | 77.6 | 59.9 | 66.8 | 54.3 | 71.3 | 45.1 | 56.2 |
| Gender |  |  |  |  |  |  |  |  |
| Male | 68.6 | 75.3 | 59.7 | 67.2 | 53.0 | 70.5 | 44.1 | 50.6 |
| Female70.3 | 79.6 | 60.0 | 66.6 | 55.6 | 72.1 | 46.3 | 61.4 |  |
| Age when began at first institution |  |  |  |  |  |  |  |  |
| 18 years or younger | 76.8 | 81.3 | 66.7 | 73.1 | 66.0 | 76.3 | 57.2 | 57.5 |
| 19 years | 66.1 | 67.7 | 65.8 | 63.4 | 43.7 | 57.9 | 37.4 | - |
| 20-29 years | 55.7 | 48.2 | 51.9 | 67.0 | 37.1 | 45.7 | 34.9 | 49.6 |
| 30 years or older | 50.0 | 45.7 | 45.4 | 62.7 | 28.0 | 18.8 | 26.5 | 55.0 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |  |
| None | 79.7 | 83.5 | 70.6 | 73.8 | 73.6 | 77.7 | 67.9 | 80.0 |
| One | 69.5 | 74.4 | 63.7 | 54.6 | 56.5 | 73.7 | 47.0 | - |
| Two | 60.4 | 51.2 | 56.9 | 78.7 | 46.3 | 51.4 | 45.5 | 41.8 |
| Three or more | 53.4 | 51.0 | 49.7 | 63.0 | 29.3 | 27.6 | 27.6 | 51.6 |
| Socioeconomic status |  |  |  |  |  |  |  |  |
| Lowest quartile | 54.5 | 53.3 | 50.6 | 61.3 | 29.9 | - | 28.5 | 34.2 |
| Middle quartiles | 66.3 | 73.8 | 57.9 | 67.6 | 49.1 | 58.8 | 46.0 | 59.6 |
| Highest quartile | 81.6 | 84.3 | 73.7 | 85.5 | 64.5 | 76.4 | 50.8 | 65.0 |
| Race-ethnicity of student |  |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 83.0 | 86.2 | - | - | 62.6 | 85.9 | - | - |
| Black, non-Hispanic | 60.6 | 75.9 | 46.6 | 49.7 | 45.6 | 55.0 | 46.3 | - |
| Hispanic | 70.9 | 71.7 | 69.5 | 69.6 | 54.5 | - | 51.0 | - |
| White, non-Hispanic | 69.8 | 77.8 | 59.3 | 69.1 | 54.7 | 71.2 | 43.9 | 62.4 |
| Marital status when began at first institution |  |  |  |  |  |  |  |  |
| Not married | 72.3 | 79.1 | 63.0 | 68.7 | 59.6 | 73.3 | 50.9 | 55.9 |
| Married | 55.3 | 55.5 | 51.0 | 63.9 | 28.3 | - | 26.6 | 63.5 |
| Separated | 54.9 | - | - | 62.2 | - | - | - | - |
| Parental education |  |  |  |  |  |  |  |  |
| Less than high school diploma | 59.5 | 69.1 | 50.3 | 68.4 | 33.2 | - | 30.3 | - |
| High school diploma | 62.8 | 71.4 | 56.5 | 58.5 | 45.8 | 54.6 | 41.2 | 63.6 |
| Some postsecondary | 70.3 | 76.2 | 57.9 | 80.3 | 56.9 | 64.9 | 53.0 | 51.5 |
| Bachelor's or higher | 82.5 | 84.5 | 77.9 | 77.7 | 68.2 | 80.3 | 55.9 | - |
| Dependency status in 1989-90 |  |  |  |  |  |  |  |  |
| Dependent | 75.1 | 80.0 | 66.4 | 69.6 | 61.2 | 74.4 | 51.5 | 63.0 |
| Independent | 54.0 | 51.3 | 49.0 | 65.3 | 33.7 | 38.4 | 31.7 | 47.4 |

Table 15.5-Percentage of 1989-90 beginning postsecondary students who attained a degree or were still enrolled in 1994 according to financial aid receipt as of spring 1994 and level of first institution, by selected demographic characteristics-Continued

|  | Level of first institution |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Received aid |  |  |  | Did not receive aid |  |  |  |
|  | Total | 4-year | 2-year | $\begin{gathered} \text { Less } \\ \text { than } \\ \text { 2-year } \\ \hline \end{gathered}$ | Total | 4 -year | 2-year | Less than 2-year |
|  | Attained or still enrolled |  |  |  |  |  |  |  |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |  |  |
| Less than \$20,000 | 65.8 | 72.4 | 57.8 | 61.4 | 51.8 | 57.9 | 50.5 | - |
| \$20,000-39,999 | 74.9 | 77.1 | 71.9 | 68.9 | 47.8 | 63.5 | 42.0 | 48.2 |
| \$40,000-59,999 | 78.2 | 84.8 | 61.1 | 82.2 | 62.9 | 71.6 | 54.8 | - |
| \$60,000 or more | 88.3 | 87.3 | 90.8 | - | 74.7 | 82.0 | 63.0 | - |
| Independent |  |  |  |  |  |  |  |  |
| Less than \$10,000 | 56.1 | 52.2 | 54.5 | 61.2 | 44.7 | 58.4 | 42.6 | - |
| \$10,000-19,999 | 53.1 | 63.5 | 40.2 | 67.8 | 31.8 | - | 28.3 | - |
| \$20,000 or more | 51.3 | 40.0 | 48.2 | 72.2 | 25.1 | 16.3 | 24.5 | 41.6 |
| Total costs in 1989-90 |  |  |  |  |  |  |  |  |
| Less than \$4,000 | 64.1 | 72.7 | 59.3 | 60.0 | 46.3 | 59.8 | 43.5 | 32.5 |
| \$4,000-7,999 | 69.0 | 74.9 | 61.5 | 62.9 | 62.4 | 72.6 | 53.4 | 61.2 |
| \$8,000-11,999 | 70.2 | 80.2 | 50.5 | 69.6 | 59.8 | 76.2 | 40.2 | - |
| \$12,000 or more | 79.0 | 84.0 | 69.5 | 73.2 | 71.9 | 84.2 | 40.5 | 86.9 |

-Too few cases for a reliable estimate.
"Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 15.6-Percentage of 1989-90 beginning postsecondary students who ever borrowed from any source as of spring 1994 according to level and control of last institution, by selected demographic and institutional characteristics

|  | Level and control of last institution |  |  |  |  | Total borrowed for undergraduate education |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public $4 \text {-year }$ | Private, <br> not- <br> for- <br> profit <br> 4-year | Public less-than4 -year | Private, not- for- profit less- than- 4 -year | Private, forprofit less-than4 -year |  |
| Total | 54.1 | 63.2 | 32.7 | 55.0 | 72.2 | 48.9 |
| Gender |  |  |  |  |  |  |
| Male | 55.4 | 67.3 | 32.9 | 71.2 | 65.9 | 49.0 |
| Female | 53.0 | 59.5 | 32.5 | 44.3 | 76.1 | 48.8 |
| Age when began at first institution |  |  |  |  |  |  |
| 18 years or younger | 53.4 | 64.9 | 40.2 | 58.8 | 71.2 | 52.7 |
| 19 years | 58.2 | 70.0 | 36.0 | - | 79.8 | 51.2 |
| 20-29 years | 62.1 | 45.6 | 31.0 | 35.0 | 76.3 | 47.3 |
| 30 years or older | 43.5 | 34.6 | 10.9 | - | 57.9 | 24.7 |
| Number of risk factors when began at first institution* |  |  |  |  |  |  |
| None | 51.9 | 65.1 | 39.8 | 61.0 | 69.8 | 53.0 |
| One56.1 | 64.5 | 34.6 | 59.4 | 78.1 | 50.8 |  |
| Tw64.2 | 61.5 | 52.1 | - | 71.0 | 58.8 |  |
| Three or more | 56.0 | 45.1 | 21.0 | 52.0 | 71.8 | 36.1 |
| Socioeconomic status |  |  |  |  |  |  |
| Lowest quartile | 64.8 | 67.4 | 24.2 | 45.6 | 69.8 | 42.6 |
| Middle quartiles | 63.2 | 72.1 | 33.6 | 62.8 | 79.8 | 53.0 |
| Highest quartile | 45.9 | 58.2 | 37.3 | 40.9 | 53.7 | 46.4 |
| Race-ethnicity of student |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | 58.7 |
| Asian/Pacific Islander | 51.7 | 59.0 | - | - | - | 47.5 |
| Black, non-Hispanic | 61.5 | 78.4 | 30.4 | - | 66.1 | 52.3 |
| Hispanic | 62.0 | 61.6 | 43.6 | - | 67.7 | 54.2 |
| White, non-Hispanic | 53.0 | 62.1 | 31.6 | 54.6 | 73.8 | 47.9 |
| Dependency status in 1989-90 |  |  |  |  |  |  |
| Dependent | 54.3 | 65.3 | 40.7 | 56.2 | 70.4 | 52.8 |
| Independent | 52.8 | 41.7 | 19.9 | 49.1 | 73.9 | 37.4 |
| Income and dependency status in 1989-90 |  |  |  |  |  |  |
| Dependent |  |  |  |  |  |  |
| Less than \$20,000 | 68.5 | 82.2 | 44.9 | 68.1 | 83.4 | 62.0 |
| \$20,000-39,999 | 63.8 | 77.1 | 43.7 | 46.4 | 71.5 | 59.3 |
| \$40,000-59,999 | 51.6 | 71.6 | 35.7 | - | 63.2 | 50.4 |
| \$60,000 or more | 34.6 | 43.0 | 35.6 | - | 45.2 | 37.4 |
| Independent |  |  |  |  |  |  |
| Less than \$10,000 | 52.3 | 59.9 | 21.7 | 46.4 | 76.9 | 43.6 |
| \$10,000-19,999 | 65.2 | - | 27.2 | - | 83.6 | 45.4 |
| \$20,000 or more | 44.2 | 15.6 | 12.4 | - | 55.0 | 22.8 |

Table 15.6-Percentage of 1989-90 beginning postsecondary students who ever borrowed from any source as of spring 1994 according to level and control of last institutionby selected demographic and institutional characteristics-Continued

|  | Level and control of last institution |  |  |  |  | Total borrowed for undergraduate education |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public <br> 4-year | Private, not-forprofit 4-year | Public less-than-4-year | Private, not-forprofit less-than-4-year | Private, forprofit less-than-4-year |  |
| Total costs in 1989-90 |  |  |  |  |  |  |
| Less than \$4,000 | 45.1 | 51.3 | 24.6 | 53.7 | 60.3 | 34.4 |
| \$4,000-7,999 | 55.9 | 64.5 | 41.6 | 48.2 | 66.1 | 52.8 |
| \$8,000-11,999 | 62.5 | 66.3 | 42.9 | 68.2 | 85.3 | 62.1 |
| \$12,000 or more | 66.3 | 64.7 | 53.4 | 58.8 | 79.2 | 65.8 |
| Academic year of last enrollment |  |  |  |  |  |  |
| 1989-90 | 39.7 | 43.9 | 16.7 | 54.6 | 76.9 | 33.4 |
| 1990-91 | 45.1 | 67.0 | 29.7 | 37.8 | 71.7 | 47.3 |
| 1991-92 | 51.0 | 49.2 | 45.8 | 57.8 | 67.6 | 49.8 |
| 1992-93 | 48.8 | 61.2 | 47.0 | - | 72.0 | 54.0 |
| 1993-94 | 57.7 | 69.7 | 37.2 | - | 66.0 | 53.5 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |  |
| Attained degree | 55.3 | 64.4 | 37.3 | 51.8 | 72.6 | 55.3 |
| No degree, enrolled | 54.9 | 69.3 | 31.7 | - | - | 47.6 |
| No degree, not enrolled | 50.5 | 55.3 | 30.5 | 59.3 | 71.0 | 40.8 |
| Highest degree attained |  |  |  |  |  |  |
| None | 52.6 | 59.9 | 30.7 | 60.8 | 71.4 | 42.5 |
| Certificate | 56.8 | - | 30.1 | 60.8 | 70.9 | 53.5 |
| Associate's degree | 64.3 | 41.8 | 43.1 | 42.6 | 83.4 | 52.8 |
| Bachelor's degree | 53.3 | 65.2 | 43.0 | - | - | 57.3 |

-Too few cases for a reliable estimate.

* Risk factors include delayed enrollment, being GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 15.7—Average amount borrowed by 1989-90 beginning postsecondary students who ever borrowed from any source as of spring 1994 according to level and control of last institution, by selected demographic and institutional characteristics

|  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Level and control of last institution |

Table 15.7—Average amount borrowed by 1989-90 beginning postsecondary students who ever borrowed from any source as of spring 1994 according to level and control of last institution, by selected demographic and institutional characteristics-Continued

|  | Level and control of last institution |  |  |  |  | Total amount borrowed for undergraduate education |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public <br> 4-year | $\begin{aligned} & \text { Private, } \\ & \text { not- } \\ & \text { for- } \\ & \text { profit } \\ & \text { 4-year } \\ & \hline \end{aligned}$ | Public less-than-4-year | Private, not-forprofit less-than-4-year | Private forprofit less-than4 -year |  |
| Total costs in 1989-90 |  |  |  |  |  |  |
| Less than \$4,000 | 6,850 | - | 3,435 | - | 4,543 | 5,832 |
| \$4,000-7,999 | 7,759 | 9,294 | 3,422 | - | 3,936 | 6,614 |
| \$8,000-11,999 | 7,670 | 11,462 | 3,759 | - | 4,753 | 7,380 |
| \$12,000 or more | 10,126 | 13,614 | 4,804 | - | 5,136 | 9,801 |
| Academic year of last enrollment |  |  |  |  |  |  |
| 1989-90 | - | - | - | - | 3,990 | 3,487 |
| 1990-91 | - | - | 3,049 | - | 4,241 | 4,061 |
| 1991-92 | 6,468 | 9,657 | 3,195 | - | 5,453 | 5,368 |
| 1992-93 | 8,114 | 12,662 | - | - | - | 9,882 |
| 1993-94 | 8,128 | 11,871 | 4,476 | - | 5,970 | 8,289 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |  |
| Attained degree | 8,449 | 12,671 | 4,231 | 7,973 | 4,955 | 8,319 |
| No degree, enrolled | 8,184 | 11,002 | 4,417 | - | - | 8,174 |
| No degree, not enrolled | 4,770 | 7,429 | 3,025 | - | 3,677 | 4,276 |
| Highest degree attained |  |  |  |  |  |  |
| None | 6,484 | 8,909 | 3,293 | - | 3,831 | 5,520 |
| Certificate | - | - | 2,913 | 7,717 | 4,436 | 4,301 |
| Associate's degree | 7,153 | - | 4,342 | - | 7,277 | 6,541 |
| Bachelor's degree | 8,929 | 12,814 | - | - | - | 10,584 |

-Too few cases for a reliable estimate.
*Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 15.8a-Percentage of 1989-90 beginning postsecondary students who owe on postsecondary loans as of spring 1994 according to overall persistence and attainment, by selected demographic and institutional characteristics

|  | Total who owe on postsecondary loans | Overall persistence and attainment |  |
| :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Attained } \\ \text { or } \\ \text { still } \\ \text { enrolled } \\ \hline \end{gathered}$ | No degree, no longer enrolled |
| Total | 29.7 | 36.3 | 18.0 |
| Gender |  |  |  |
| Male | 28.3 | 35.7 | 16.5 |
| Female | 30.9 | 36.7 | 19.4 |
| Age when began at first institution |  |  |  |
| 18 years or younger | 32.9 | 37.1 | 21.0 |
| 19 years | 29.9 | 38.0 | 19.1 |
| 20-29 years | 27.5 | 36.0 | 19.2 |
| 30 years or older | 15.1 | 25.6 | 8.4 |
| Number of risk factors when began at first institution ${ }^{*}$ |  |  |  |
| None | 34.7 | 36.9 | 26.9 |
| One29.8 | 36.4 | 17.5 |  |
| Two3.6 | 46.5 | 18.0 |  |
| Three or more | 20.0 | 29.7 | 12.7 |
| Socioeconomic status |  |  |  |
| Lowest quartile | 26.0 | 38.2 | 15.4 |
| Middle quartiles | 34.5 | 42.8 | 21.4 |
| Highest quartile | 25.5 | 29.4 | 13.9 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | - | - | - |
| Asian/Pacific Islander | 27.8 | 31.7 | - |
| Black, non-Hispanic | 34.2 | 44.4 | 21.6 |
| Hispanic | 30.0 | 36.3 | 17.0 |
| White, non-Hispanic | 29.1 | 35.5 | 17.7 |
| Parental education |  |  |  |
| Less than high school diploma | 26.0 | 33.3 | 17.7 |
| High school diploma | 33.1 | 43.8 | 18.9 |
| Some postsecondary | 32.9 | 38.1 | 23.1 |
| Bachelor's or higher | 27.8 | 30.9 | 16.8 |
| Dependency status in 1989-90 |  |  |  |
| Dependent | 32.5 | 37.4 | 20.5 |
| Independent | 22.2 | 31.5 | 14.4 |
| Income and dependency status in 1989-90 |  |  |  |
| Dependent |  |  |  |
| Less than \$20,000 | 43.5 | 51.5 | 28.9 |
| \$20,000-39,999 | 38.2 | 45.6 | 22.6 |
| \$40,000-59,999 | 29.5 | 35.0 | 15.4 |
| \$60,000 or more | 16.6 | 18.4 | 8.6 |
| Independent |  |  |  |
| Less than \$10,000 | 27.6 | 33.0 | 21.6 |
| \$10,000-19,999 | 26.5 | 38.3 | 16.9 |
| \$20,000 or more | 12.2 | 22.7 | 6.1 |

Table 15.8a-Percentage of 1989-90 beginning postsecondary students who owe on postsecondary loans as of spring 1994 according to overall persistence and attainment, by selected demographic and institutional characteristics-Continued

|  | Overall persistence and attainment |  |  |
| :---: | :---: | :---: | :---: |
|  | Total who owe on postsecondary loans | Attained or still enrolled | No degree, no longer enrolled |
| Total costs in 1989-90 |  |  |  |
| Less than \$4,000 | 15.4 | 22.2 | 7.5 |
| \$4,000-7,999 | 32.8 | 35.9 | 26.4 |
| \$8,000-11,999 | 42.6 | 49.5 | 27.0 |
| \$12,000 or more | 49.3 | 51.7 | 40.5 |
| Level and control of last institution |  |  |  |
| 4 -year |  |  |  |
| Public | 35.1 | 37.0 | 28.3 |
| Private, not-for-profit | 48.1 | 50.6 | 36.3 |
| Private, for-profit | - | - | - |
| 2-year |  |  |  |
| Public | 10.5 | 14.9 | 7.4 |
| Private, not-for-profit | 38.4 | 42.0 | 26.9 |
| Private, for-profit | 58.7 | 66.6 | 50.0 |
| Less-than-2-year |  |  |  |
| Public | 16.1 | 15.3 | 17.1 |
| Private, not-for-profit | 18.8 | - | - |
| Private, for-profit | 50.8 | 55.0 | 39.6 |
| Level of last institution |  |  |  |
| 4 -year | 38.8 | 41.0 | 30.0 |
| 2-year | 15.8 | 21.9 | 11.0 |
| Less-than-2-year | 42.7 | 47.3 | 32.4 |
| Control of last institution |  |  |  |
| Public | 22.3 | 28.7 | 12.9 |
| Private, not-for-profit | 46.9 | 49.6 | 34.8 |
| Private, for-profit | 52.9 | 57.6 | 43.7 |
| Academic year of last enrollment |  |  |  |
| 1989-90 | 14.3 | 40.2 | 9.7 |
| 1990-91 | 25.5 | 38.3 | 15.2 |
| 1991-92 | 28.3 | 36.6 | 21.3 |
| 1992-93 | 38.4 | 38.5 | 37.5 |
| 1993-94 | 34.5 | 34.9 | 32.0 |
| Highest degree attained |  |  |  |
| None | 20.4 | 27.4 | 18.0 |
| Certificate | 36.3 | 36.3 | $\dagger$ |
| Associate's degree | 32.0 | 32.0 | $\dagger$ |
| Bachelor's degree | 42.0 | 42.0 | $\pm$ |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
*Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 15.8b—Average amount owed on postsecondary loans as of spring 1994 by 1989-90 beginning postsecondary students according to overall persistence and attainments of spring 1994, by selected demographic and institutional characteristics

|  | Average amount owed on postsecondary loans in 1994 | Overall persistence and attainment |  |
| :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Attained } \\ & \text { or } \\ & \text { still } \\ & \text { enrolled } \\ & \hline \end{aligned}$ | No degree, no longer enrolled |
| Total | \$ 6,887 | \$ 7,745 | \$ 3,804 |
| Gender |  |  |  |
| Male | 7,577 | 8,550 | 4,221 |
| Female | 6,366 | 7,147 | 3,471 |
| Age when began at first institution |  |  |  |
| 18 years or younger | 7,798 | 8,439 | 4,559 |
| 19 years | 5,673 | 6,794 | 2,706 |
| 20-29 years | 4,808 | 5,589 | 3,401 |
| 30 years or older | 4,300 | 5,263 | 2,447 |
| Number of risk factors when began at first institution ${ }^{*}$ |  |  |  |
| None | 8,032 | 8,762 | 4,352 |
| One6,997 | 7,693 | 4,326 |  |
| Twб,555 | 6,188 | 3,580 |  |
| Three or more | 4,271 | 5,109 | 2,812 |
| Socioeconomic status |  |  |  |
| Lowest quartile | 4,577 | 4,936 | 3,803 |
| Middle quartiles | 6,690 | 7,732 | 3,442 |
| Highest quartile | 8,132 | 8,659 | 4,825 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | - | - | - |
| Asian/Pacific Islander | 10,074 | 10,185 | - |
| Black, non-Hispanic | 6,557 | 7,712 | 3,631 |
| Hispanic | 5,300 | 5,698 | 3,546 |
| White, non-Hispanic | 6,928 | 7,820 | 3,747 |
| Parental education |  |  |  |
| Less than high school diploma | 4,845 | 5,834 | 2,730 |
| High school diploma | 6,184 | 6,924 | 3,896 |
| Some postsecondary | 6,792 | 7,804 | 3,689 |
| Bachelor's or higher | 8,597 | 9,219 | 4,565 |
| Dependency status in 1989-90 |  |  |  |
| Dependent | 7,424 | 8,165 | 4,101 |
| Independent | 4,865 | 5,767 | 3,219 |
| Income and dependency status in 1989-90 |  |  |  |
| Dependent |  |  |  |
| Less than \$20,000 | 6,607 | 7,519 | 3,603 |
| \$20,000-39,999 | 7,499 | 8,277 | 4,210 |
| \$40,000-59,999 | 8,083 | 8,681 | 4,552 |
| \$60,000 or more | 7,953 | 8,258 | - |
| Independent |  |  |  |
| Less than \$10,000 | 4,776 | 5,675 | 3,247 |
| \$10,000-19,999 | 5,353 | 6,339 | 3,515 |
| \$20,000 or more | 4,313 | 5,111 | - |

Table 15.8b—Average amount owed on postsecondary loans as of spring 1994 by 1989-90 beginning postsecondary students according to overall persistence and attainment, by selected demographic and institutional characteristics-Continued

|  | Average amount owed on postsecondary loans in 1994 | Overall persistence and attainment |  |
| :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Attained } \\ & \text { or } \\ & \text { still } \\ & \text { enrolled } \\ & \hline \end{aligned}$ | No degree, no longer enrolled |
| Total costs in 1989-90 |  |  |  |
| Less than \$4,000 | 5,699 | 6,641 | 2,431 |
| \$4,000-7,999 | 6,322 | 7,133 | 3,999 |
| \$8,000-11,999 | 6,932 | 7,556 | 4,324 |
| \$12,000 or more | 8,761 | 9,668 | 4,396 |
| Level and control of last institution |  |  |  |
| 4-year |  |  |  |
| Public | 7,507 | 8,147 | 4,434 |
| Private, not-for-profit | 11,337 | 11,980 | 7,021 |
| Private, for-profit | - | - | - |
| 2-year |  |  |  |
| Public | 3,229 | 3,657 | 2,612 |
| Private, not-for-profit | 5,820 | 6,602 | - |
| Private, for-profit | 4,234 | 4,729 | 3,517 |
| Less-than-2-year |  |  |  |
| Public | - | - | - |
| Private, not-for-profit | - | - | - |
| Private, for-profit | 2,950 | 3,226 | 1,923 |
| Level of last institution |  |  |  |
| 4 -year | 8,860 | 9,545 | 5,183 |
| 2-year | 3,741 | 4,273 | 2,921 |
| Less-than-2-year | 2,915 | 3,194 | 1,996 |
| Control of last institution |  |  |  |
| Public | 6,399 | 7,250 | 3,612 |
| Private, not-for-profit | 10,970 | 11,656 | 6,519 |
| Private, for-profit | 3,472 | 3,750 | 2,762 |
| Academic year of last enrollment |  |  |  |
| 1989-90 | 2,312 | 2,573 | 2,118 |
| 1990-91 | 2,854 | 3,031 | 2,493 |
| 1991-92 | 4,710 | 5,409 | 3,712 |
| 1992-93 | 9,289 | 9,996 | 5,681 |
| 1993-94 | 7,995 | 8,357 | 5,054 |
| Highest degree attained |  |  |  |
| None | 5,090 | 7,462 | 3,804 |
| Certificate | 3,250 | 3,250 | $\dagger$ |
| Associate's degree | 5,630 | 5,630 | $\dagger$ |
| Bachelor's degree | 10,355 | 10,355 | $\pm$ |

-Too few cases for a reliable estimate.
*Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.
$\dagger$ Not applicable.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.


Table 15.9a-Percentage of 1989-90 beginning postsecondary students who borrowed for postsecondary education according to loan repayment arrangements as of spring 1994, by selected demographic and institutional characteristics-Continued
$\left.\begin{array}{lcc}\hline & \begin{array}{c}\text { Currently } \\ \text { repaying } \\ \text { educational } \\ \text { loans }\end{array} & \begin{array}{c}\text { Receiving } \\ \text { help }\end{array} \\ \text { making } \\ \text { payments }\end{array}\right]$

Table 15.9a—Percentage of 1989-90 beginning postsecondary students who borrowed for postsecondary education according to loan repayment arrangements as of spring 1994, by selected demographic and institutional characteristics-Continued

|  | Currently <br> repaying <br> educational <br> loans | Receiving <br> help <br> making <br> payments |
| :--- | :---: | :---: |
| Highest degree attained |  |  |
| None | 52.3 | 16.1 |
| Certificate | 80.2 | 10.8 |
| Associate's degree | 53.1 | 20.6 |
| Bachelor's degree | 41.1 | 21.7 |

-Too few cases for a reliable estimate.
*Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.

SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 15.9b-Percentage distribution of 1989-90 beginning postsecondary students who borrowed for postsecondary education and are currently repaying loans according to average monthly loan payment as of spring 1994, by selected demographic and institutional characteristics

|  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Less <br> than <br> $\$ 50$ |  |  |  |

Table 15.9b—Percentage distribution of 1989-90 beginning postsecondary students who borrowed for postsecondary education and are currently repaying loans, according to average monthly loan payment as of spring 1994, by selected demographic and institutional characteristics-Continued

|  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  | Less <br> than <br> $\$ 50$ |  |  |  |

Table 15.9b—Percentage distribution of 1989-90 beginning postsecondary students who borrowed for postsecondary education and are currently repaying loans according to average monthly loan payment as of spring 1994, by selected demographic and institutional characteristics-Continued

|  | Less <br> than |  |  |  |
| :--- | :---: | :---: | :---: | :---: |

-Too few cases for a reliable estimate.
*Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parentpart time attendance, and working full time while enrolled
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analy

## Section 16

## Marriage, Family Formation, Civic Participation, and Further Education Activities

## Section 16

# Marriage, Family Formation, Civic Participation, and Further Education 

## Marriage

- More than one-quarter (26 percent) of students who began their postsecondary education in 1989-! were married in spring of 1994 . Of these students, more than half ( 56 percent) had been married before entering postsecondary education, 20 percent had done so while enrolled; and 24 percent had married after they left postsecondary education. (tables 16.1a-16.b)
- Women were more likely than men to report being married in spring 1994 (31 percent compared u 20 percent), as well as to be separated, divorced, or widowed ( 9 percent compared with 4 percent). (table 16.1a)
- Older students and those with lower socioeconomic status (SES) were more likely to report being married in spring 1994 and to have married before postsecondary education than their younger and higher socioeconomic counterparts. (tables 16.1a-16.1b)
- Bachelor's degree attainers were more likely to report being never married in spring 1994 (88 percent) than their counterparts who had not obtained a degree ( 61 percent) or those who had obtained an associate's degree ( 72 percent) or a certificate ( 48 percent). (table 16.1a)


## Family Formation

- More than one-quarter (27 percent) of students reported having children by the spring of 1994 . Of these more than half ( 57 percent) had their first child before entering postsecondary education, 15 percent had them while enrolled, and 28 percent after their last term. (tables $16.2 \mathrm{a}-16.2 \mathrm{~b}$ )
- Female, older, and lower SES students were more likely to report having children, and more likely to report having had their first child before entering postsecondary education. (tables $16.2 \mathrm{a}-16.2 \mathrm{~b}$ )
- Reflecting the different age distributions within institutional sectors, an inverse relationship existed between level of first institution and the likelihood of having children in 1994. Those who had enrolled in less-than-2-year institution in 1989-90 were five times as likely as those who began in 4-year institutions ( 59 percent compared with 11 percent) to have children and were also more likely to have had their first child before entering postsecondary education. (tables $16.2 \mathrm{a}-16.2 \mathrm{~b}$ )


## Civic Participation

- Nearly one-third of all 1989-90 beginning postsecondary students reported having participated in volunteer/community service in the past 2 years ( 32 percent), and a similar proportion reported having done so in the spring of 1994 (31 percent). (table 16.3)
- The types of volunteer/community organizations students most frequently reported working with is the past 2 years were community or social action groups ( 26 percent), church groups ( 21 percent), and youth organizations ( 21 percent). (table 16.3)
- Those who had attained a bachelor's degree were more likely to report participating in volunteer/community service in the past 2 years ( 48 percent) than their counterparts who did not obtain a degree ( 26 percent) or had attained an associate's degree ( 29 percent) or a certificate ( 26 percent). (table 16.3)
- Three-quarters ( 75 percent) of 1989-90 beginning postsecondary students reported being registered to vote as of spring 1994; 74 percent reported voting in a local, state, or national election; and 71 percent voted in the 1992 presidential election. (tables $16.4 \mathrm{a}-16.4 \mathrm{~b}$ )


## Graduate School

- Half (51 percent) of all students who had attained a bachelor's degree by June 1993 reported that they intended to apply or had applied to graduate school; 11 percent had been accepted and enrolled as of spring 1994. (table 16.5)
- A positive relationship existed between the likelihood of attending graduate school and SES, with 13 percent of bachelor's degree holders from the highest quartile attending, compared with 9 percent of those from the middle and 5 percent of those from the lowest quartile. (table 16.5)
- Twice as many bachelor's degree attainers who started in 4-year institutions went on to attend graduate school ( 12 percent) than those who started in 2-year institutions ( 6 percent). (table 16.5)


## Licensing Examinations

- Fourteen percent of all 1989-90 beginning postsecondary students had taken licensing exams as of the spring 1994. Among the most common exams reported were teachers ( 21 percent) and medical licensing exams ( 22 percent). (table 16.6)
- Although men and women were just about as likely to take licensing exams (13 percent compared 15 percent), they differed in the type of licensing exams taken. Specifically, women were more likely than men to report having taken teachers ( 29 percent compared with 11 percent), nursing ( 15 percent compared with 2 percent), medical ( 27 percent compared with 15 percent), and cosmetology ( 13 percent compared with 3 percent) licensing exams. On the other hand, men were more likely than women to take business ( 18 percent compared with 7 percent) and engineering exams ( 6 percent compared with 0.4 percent). (table 16.6)

Table 16.1a—Percentage distribution of 1989-90 beginning postsecondary students according to marital status in spring 1994, by selected demographic and institutional characteristics

|  | Never married | Married | Divorced, widowed, separated |
| :---: | :---: | :---: | :---: |
| Total | 67.5 | 26.0 | 6.4 |
| Gender |  |  |  |
| Male | 76.7 | 19.7 | 3.6 |
| Female | 59.7 | 31.4 | 8.9 |
| Age in 1994 |  |  |  |
| 24 years or younger | 81.5 | 16.8 | 1.8 |
| 25-29 years | 50.1 | 39.4 | 10.5 |
| 30-34 years | 19.1 | 56.8 | 24.0 |
| 35 years or older | 5.7 | 65.7 | 28.6 |
| Number of risk factors when began at first institution ${ }^{*}$ |  |  |  |
| None | 84.2 | 14.6 | 1.2 |
| One80.6 | 18.3 | 1.2 |  |
| Two63.7 | 27.2 | 9.1 |  |
| Three or more | 28.7 | 52.3 | 19.0 |
| Socioeconomic status |  |  |  |
| Lowest quartile | 40.2 | 38.9 | 20.9 |
| Middle quartiles | 62.1 | 31.1 | 6.8 |
| Highest quartile | 83.6 | 15.6 | 0.9 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | 74.7 | 13.8 | 11.5 |
| Asian/Pacific Islander | 79.5 | 20.1 | 0.4 |
| Black, non-Hispanic | 80.6 | 12.7 | 6.7 |
| Hispanic | 75.7 | 19.4 | 4.9 |
| White, non-Hispanic | 64.5 | 28.7 | 6.8 |
| Parental education |  |  |  |
| Less than high school diploma | 40.6 | 46.6 | 12.8 |
| High school diploma | 60.5 | 31.7 | 7.8 |
| Some postsecondary | 75.6 | 20.4 | 4.0 |
| Bachelor's or higher | 81.8 | 16.3 | 1.9 |
| Level and control of first institution |  |  |  |
| 4-year |  |  |  |
| Public | 80.6 | 17.3 | 2.1 |
| Private, not-for-profit | 83.8 | 14.5 | 1.7 |
| Private, for-profit | - | - | - |
| 2-year |  |  |  |
| Public | 60.9 | 31.4 | 7.7 |
| Private, not-for-profit | 71.3 | 26.7 | 2.1 |
| Private, for-profit | 46.1 | 40.6 | 13.3 |
| Less-than-2-year |  |  |  |
| Public | 35.1 | 44.2 | 20.7 |
| Private, not-for-profit | 53.2 | 37.8 | 9.1 |
| Private, for-profit | 39.5 | 40.2 | 20.3 |

Table 16.1a-Percentage distribution of 1989-90 beginning postsecondary students according to marital status in spring 1994, by selected demographic and institutional characteristics-Continued

|  | Never married | Married | Divorced, widowed, separated |
| :---: | :---: | :---: | :---: |
| Level of first institution |  |  |  |
| 4 -year | 81.6 | 16.4 | 2.0 |
| 2 -year | 60.2 | 31.9 | 7.9 |
| Less-than-2-year | 39.0 | 41.0 | 20.0 |
| Control of first institution |  |  |  |
| Public | 67.9 | 26.3 | 5.8 |
| Private, not-for-profit | 81.8 | 16.3 | 1.9 |
| Private, for-profit | 42.0 | 40.3 | 17.7 |
| Persistence and attainment as of spring 1994 |  |  |  |
| Attained degree | 74.3 | 21.4 | 4.3 |
| No degree, enrolled | 78.6 | 16.8 | 4.6 |
| No degree, not enrolled | 54.1 | 35.8 | 10.1 |
| Highest degree attained |  |  |  |
| None | 60.7 | 30.8 | 8.6 |
| Certificate | 48.4 | 39.8 | 11.8 |
| Associate's degree | 71.5 | 25.3 | 3.2 |
| Bachelor's degree | 88.3 | 10.7 | 1.0 |

-Too few cases for a reliable estimate.
*Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 16.1b—Percentage distribution of ever married 1989-90 beginning postsecondary students as of spring 1994 according to timing of marriage, by selected demographic and institutional characteristics

 characteristics-Continued

|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  | Wefore <br> postsecondary <br> education | While <br> enrolled in <br> postsecondary <br> education | After <br> last term |
|  |  |  |  |
| Level of first institution | 25.6 | 44.4 | 30.0 |
| 4-year | 60.7 | 14.4 | 25.0 |
| 2-year | 65.5 | 8.7 | 25.8 |
| Less-than-2-year |  |  |  |
| Control of first institution | 54.0 | 20.7 | 25.3 |
| Public | 30.3 | 41.0 | 28.7 |
| Private, not-for-profit | 60.5 | 10.3 | 29.2 |
| Private, for-profit |  |  |  |
| Persistence and attainment as of spring 1994 | 47.1 | 27.3 | 25.6 |
| Attained degree | 43.8 | 56.2 | 0 |
| No degree, enrolled | 59.3 | 9.5 | 31.2 |
| No degree, not enrolled |  |  |  |
|  |  |  |  |
| Highest degree attained | 57.1 | 16.2 | 26.7 |
| None | 64.0 | 14.1 | 22.0 |
| Certificate | 36.9 | 30.8 | 32.4 |
| Associate's degree | 20.2 | 53.2 | 26.6 |
| Bachelor's degree |  |  |  |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
*Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.

SOURCE:U.S.Departmentof Education,National CenterforEducation Statistics, 1990Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 16.2a-Percentage distribution of 1989-90 beginning postsecondary students according to the number
of children in spring 1994, by selected demographic and institutional characteristics

|  | None | $\begin{aligned} & \text { One } \\ & \text { or } \\ & \text { more } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: |
| Total | 73.1 | 26.9 |
| Gender Male Female | $\begin{aligned} & 81.2 \\ & 66.2 \end{aligned}$ | $\begin{aligned} & 18.8 \\ & 33.8 \end{aligned}$ |
| Age in 1994 <br> 24 years or younger <br> 25-29 years <br> 30-34 years <br> 35 years or older | $\begin{aligned} & 87.2 \\ & 55.6 \\ & 27.3 \\ & 10.8 \end{aligned}$ | $\begin{aligned} & 12.8 \\ & 44.4 \\ & 72.7 \\ & 89.2 \end{aligned}$ |
| Number of risk factors when began at first institution ${ }^{*}$ <br> None <br> One87.2 <br> Two 2.7 <br> Three or more | $\begin{aligned} & 90.5 \\ & 12.8 \\ & 27.3 \\ & 31.4 \end{aligned}$ | 9.5 68.6 |
| Socioeconomic status <br> Lowest quartile <br> Middle quartiles <br> Highest quartile | $\begin{aligned} & 38.7 \\ & 68.4 \\ & 91.1 \end{aligned}$ | $\begin{array}{r} 61.3 \\ 31.6 \\ 8.9 \end{array}$ |
| Race-ethnicity of student American Indian/Alaskan Native Asian/Pacific Islander Black, non-Hispanic Hispanic White, non-Hispanic | $\begin{aligned} & 81.7 \\ & 84.6 \\ & 60.6 \\ & 72.0 \\ & 74.0 \end{aligned}$ | $\begin{aligned} & 18.3 \\ & 15.4 \\ & 39.4 \\ & 28.0 \\ & 26.0 \end{aligned}$ |
| Marital status in 1994 <br> Never married <br> Married Divorced, widowed, separated | $\begin{aligned} & 92.7 \\ & 36.0 \\ & 19.8 \end{aligned}$ | $\begin{array}{r} 7.3 \\ 64.0 \\ 80.2 \end{array}$ |
| Parental education <br> Less than high school diploma <br> High school diploma <br> Some postsecondary <br> Bachelor's or higher | $\begin{aligned} & 45.4 \\ & 67.4 \\ & 78.7 \\ & 87.9 \end{aligned}$ | $\begin{aligned} & 54.6 \\ & 32.6 \\ & 21.3 \\ & 12.1 \end{aligned}$ |
| Level and control of first institution 4 -year <br> Public <br> Private, not-for-profit <br> Private, for-profit | 88.1 91.2 | 11.9 8.8 |
| 2-year <br> Public <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 65.2 \\ & 78.5 \\ & 53.3 \end{aligned}$ | $\begin{aligned} & 34.8 \\ & 21.5 \\ & 46.7 \end{aligned}$ |
| Less-than-2-year <br> Public <br> Private, not-for-profit Private, for-profit | $\begin{aligned} & 42.6 \\ & 52.1 \\ & 40.4 \end{aligned}$ | $\begin{aligned} & 57.4 \\ & 47.9 \\ & 59.6 \end{aligned}$ |

Table 16.2a-Percentage distribution of 1989-90 beginning postsecondary students according to the number of children in spring 1994, by selected demographic and institutional characteristics-Continued

|  | One <br> or <br> more |  |
| :--- | :---: | :---: |
|  |  |  |
| Level of first institution |  |  |
| 4-year | 89.1 | 10.9 |
| 2-year | 64.8 | 35.2 |
| Less-than-2-year | 41.3 | 58.7 |
| Control of first institution |  |  |
| Public | 73.5 | 26.5 |
| Private, not-for-profit | 89.1 | 10.9 |
| Private, for-profit | 45.3 | 54.7 |
|  |  |  |
| Persistence and attainment as of spring 1994 |  |  |
| Attained degree | 80.8 | 19.2 |
| No degree, enrolled | 83.9 | 16.1 |
| No degree, not enrolled | 58.6 | 41.4 |
|  |  |  |
| Highest degree attained | 65.4 | 34.6 |
| None | 51.6 | 48.4 |
| Certificate | 80.9 | 19.1 |
| Associate's degree | 95.2 | 4.8 |
| Bachelor's degree |  |  |

-Too few cases for a reliable estimate.
*Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 16.2b-Percentage distribution of 1989-90 beginning postsecondary students who had children in spring 1994 according to the timing of first child, by selected demographic and institutional characteristics

|  | Before postsecondary education | While enrolled in postsecondary education | After last term |
| :---: | :---: | :---: | :---: |
| Total | 57.3 | 15.2 | 27.5 |
| Gender |  |  |  |
| Male | 47.6 | 18.8 | 33.6 |
| Female | 61.9 | 13.4 | 24.7 |
| Age in 1994 |  |  |  |
| 24 years or younger | 11.5 | 30.0 | 58.4 |
| 25-29 years | 54.5 | 18.0 | 27.5 |
| 30-34 years | 82.2 | 6.4 | 11.4 |
| 35 years or older | 98.3 | 0.1 | 1.6 |
| Number of risk factors when began at first institution ${ }^{*}$ |  |  |  |
| None | 3.7 | 36.7 | 59.6 |
| One6.1 | 26.4 | 67.5 |  |
| Two44.0 | 21.6 | 34.5 |  |
| Three or more | 79.8 | 7.1 | 13.1 |
| Socioeconomic status |  |  |  |
| Lowest quartile | 78.1 | 5.9 | 15.9 |
| Middle quartiles | 54.7 | 18.8 | 26.5 |
| Highest quartile | 15.1 | 23.9 | 61.0 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | - | - | - |
| Asian/Pacific Islander | 49.7 | 24.6 | 25.7 |
| Black, non-Hispanic | 52.2 | 21.3 | 26.4 |
| Hispanic | 48.5 | 27.6 | 23.9 |
| White, non-Hispanic | 59.5 | 12.6 | 27.9 |
| Marital status in 1994 |  |  |  |
| Never married | 33.2 | 31.6 | 35.2 |
| Married | 55.2 | 13.9 | 30.9 |
| Divorced, widowed, separated | 84.2 | 7.2 | 8.6 |
| Parental education |  |  |  |
| Less than high school diploma | 72.9 | 6.0 | 21.1 |
| High school diploma | 53.5 | 14.2 | 32.3 |
| Some postsecondary | 46.6 | 21.5 | 31.9 |
| Bachelor's or higher | 33.2 | 32.6 | 34.2 |
| Level and control of first institution |  |  |  |
| 4-year |  |  |  |
| Public | 30.3 | 35.7 | 34.0 |
| Private, not-for-profit | 36.3 | 33.1 | 30.6 |
| Private, for-profit | - | - | - |
| 2-year |  |  |  |
| Public | 62.3 | 12.4 | 25.3 |
| Private, not-for-profit | 33.1 | 27.0 | 39.9 |
| Private, for-profit | 57.4 | 7.3 | 35.3 |

Table 16.2b-Percentage distribution of 1989-90 beginning postsecondary students who had children in spring 1994 according to the timing of first child, by selected demographic and institutional characteristics-Continued

|  | Before postsecondary education | While enrolled in postsecondary education | After last term |
| :---: | :---: | :---: | :---: |
| Less-than-2-year |  |  |  |
| Public | 64.8 | 13.9 | 21.3 |
| Private, not-for-profit | 81.3 | 2.0 | 16.7 |
| Private, for-profit | 64.1 | 5.2 | 30.7 |
| Level of first institution |  |  |  |
| 4 -year | 31.9 | 35.0 | 33.1 |
| 2-year | 61.2 | 12.2 | 26.6 |
| Less-than-2-year | 64.8 | 6.9 | 28.3 |
| Control of first institution |  |  |  |
| Public | 56.9 | 16.5 | 26.6 |
| Private, not-for-profit | 39.7 | 29.0 | 31.3 |
| Private, for-profit | 62.0 | 5.8 | 32.2 |
| Persistence and attainment as of spring 1994 |  |  |  |
| Attained degree | 58.7 | 18.6 | 22.7 |
| No degree, enrolled | 45.3 | 54.3 | 0.4 |
| No degree, not enrolled | 57.2 | 7.3 | 35.5 |
| Highest degree attained |  |  |  |
| None | 55.8 | 13.1 | 31.1 |
| Certificate | 69.5 | 8.3 | 22.2 |
| Associate's degree | 47.5 | 23.9 | 28.6 |
| Bachelor's degree | 24.9 | 59.9 | 15.2 |

-Too few cases for a reliable estimate.
"Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 16.3-Percentage of 1989-90 beginning postsecondary students participating in volunteer/community service activities, and type of volunteer/community service organizations involved with within the past 2 years, by selected demographic and institutional characteristics

|  | Participated in any volunteer/ community service in last 2 years | Currently <br> doing any <br> volunteer <br> work <br> in 1994 | Type of volunteer/community service organization |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Service organization | Community ctr/social action/ neighbor group | Church/ churchrelated group | $\begin{gathered} \text { Hospital/ } \\ \text { nursing } \\ \text { home } \\ \hline \end{gathered}$ | Youth organization | Educational organization |
| Total | 32.4 | 31.2 | 12.6 | 26.3 | 20.9 | 11.7 | 20.9 | 10.2 |
| Gender |  |  |  |  |  |  |  |  |
| Male | 30.1 | 28.2 | 13.1 | 23.1 | 18.8 | 9.2 | 23.8 | 7.9 |
| Female | 34.4 | 33.4 | 12.2 | 28.7 | 22.5 | 13.6 | 18.8 | 11.9 |
| Age in 1994 |  |  |  |  |  |  |  |  |
| 24 years or younger | 34.0 | 27.1 | 13.5 | 26.7 | 18.1 | 12.9 | 20.6 | 9.6 |
| 25-29 years | 20.2 | 37.1 | 14.2 | 27.6 | 22.2 | 12.8 | 20.9 | 5.7 |
| 30-34 years | 27.1 | 57.8 | 13.3 | 25.4 | 39.1 | 13.1 | 31.7 | 20.5 |
| 35 years or older | 36.8 | 43.6 | 3.6 | 20.8 | 35.5 | 5.6 | 23.2 | 12.0 |
| Number of risk factors when began at first institution ${ }^{*}$ |  |  |  |  |  |  |  |  |
| None | 35.9 | 26.0 | 13.5 | 27.5 | 19.2 | 12.4 | 18.2 | 9.4 |
| One30.8 | 27.4 | 15.8 | 26.4 | 14.7 | 18.3 | 19.7 | 10.7 |  |
| Two28.4 | 41.3 | 11.0 | 23.3 | 26.3 | 6.7 | 26.0 | 3.4 |  |
| Three or more | 28.8 | 40.8 | 8.9 | 23.7 | 29.6 | 7.8 | 28.0 | 13.4 |
| Socioeconomic status |  |  |  |  |  |  |  |  |
| Lowest quartile | 26.1 | 47.9 | 10.6 | 22.3 | 26.2 | 10.1 | 25.9 | 10.4 |
| Middle quartiles | 28.1 | 31.3 | 10.6 | 26.1 | 24.4 | 10.6 | 18.7 | 9.9 |
| Highest quartile | 39.7 | 27.1 | 14.7 | 27.4 | 16.8 | 13.1 | 21.5 | 10.4 |
| Race-ethnicity of student |  |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | 40.6 | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 34.1 | 48.0 | 8.2 | 24.1 | 14.7 | 10.0 | 12.5 | 25.0 |
| Black, non-Hispanic | 27.1 | 36.3 | 6.5 | 27.6 | 28.4 | 9.1 | 29.3 | 12.3 |
| Hispanic | 28.4 | 32.8 | 12.4 | 19.7 | 20.7 | 6.4 | 14.2 | 12.0 |
| White, non-Hispanic | 33.3 | 30.0 | 13.5 | 27.1 | 20.5 | 12.6 | 20.8 | 9.2 |
| Marital status in 1994 |  |  |  |  |  |  |  |  |
| Never married | 33.5 | 27.5 | 13.7 | 27.0 | 16.5 | 13.1 | 19.2 | 10.4 |
| Married | 30.5 | 37.3 | 10.3 | 23.8 | 33.7 | 6.8 | 24.3 | 9.6 |
| Divorced, widowed, separated | 29.6 | 46.3 | 9.8 | 30.2 | 15.9 | 17.5 | 26.1 | 7.8 |

Table 16.3-Percentage of 1989-90 beginning postsecondary students participating in volunteer/community service activities, and type of
volunter/community service organizations involved with within the past 2 years, by selected demographic and institutional volunteer/community service organizations involved with within the past 2 years, by selected demographic and institutional characteristics-Continued

|  | Participated in any volunteer community service in last 2 years | Currently <br> doing any <br> volunteer <br> work <br> in 1994 | Type of volunteer/community service organization |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Service organization | $\begin{aligned} & \hline \text { Community } \\ & \text { ctr/social } \\ & \text { action/ } \\ & \text { neighbor } \\ & \text { group } \\ & \hline \end{aligned}$ | Church/ churchrelated group | $\begin{gathered} \text { Hospital/ } \\ \text { nursing } \\ \text { home } \end{gathered}$ | Youth organization | Educational organization |
| Parental education |  |  |  |  |  |  |  |  |
| Less than high school diploma | 23.3 | 39.2 | 11.8 | 23.7 | 24.1 | 8.6 | 26.7 | 13.6 |
| High school diploma | 26.4 | 30.6 | 12.7 | 22.4 | 22.6 | 13.2 | 19.5 | 9.2 |
| Some postsecondary | 31.0 | 30.6 | 12.5 | 28.7 | 22.6 | 9.9 | 20.9 | 9.2 |
| Bachelor's or higher | 42.4 | 29.0 | 13.6 | 28.7 | 17.1 | 13.1 | 21.9 | 9.9 |
| Level and control of first institution |  |  |  |  |  |  |  |  |
| 4-year |  |  |  |  |  |  |  |  |
| Public | 37.4 | 27.9 | 16.9 | 31.5 | 16.7 | 12.8 | 21.3 | 9.9 |
| Private, not-for-profit | 50.0 | 26.6 | 14.0 | 29.6 | 19.8 | 11.0 | 20.0 | 8.0 |
| Private, for-profit | - | - | - | - | - | - | - | - |
| 2-year |  |  |  |  |  |  |  |  |
| Public | 26.6 | 36.1 | 8.3 | 19.3 | 24.7 | 13.5 | 21.3 | 11.7 |
| Private, not-for-profit | 34.9 | 24.8 | 21.5 | 20.5 | 39.8 | 10.4 | 12.7 | 4.4 |
| Private, for-profit | 19.6 | 28.4 | 8.2 | 17.2 | 17.4 | 12.4 | 28.7 | 10.3 |
| Less-than-2-year |  |  |  |  |  |  |  |  |
| Public | 10.3 | 38.6 | 1.3 | 15.8 | 20.5 | 11.3 | 22.1 | 20.4 |
| Private, not-for-profit | 18.4 | - | - | - | - | - | - | - |
| Private, for-profit | 21.0 | 40.5 | 7.3 | 29.7 | 30.2 | 3.1 | 32.2 | 9.9 |
| Level of first institution |  |  |  |  |  |  |  |  |
| 4 -year | 41.5 | 27.4 | 15.8 | 30.8 | 17.9 | 12.1 | 20.8 | 9.2 |
| 2-year | 26.3 | 35.1 | 8.9 | 19.2 | 25.0 | 13.3 | 21.3 | 11.3 |
| Less-than-2-year | 18.5 | 39.3 | 6.3 | 27.3 | 29.7 | 4.0 | 29.8 | 10.9 |
| Control of first institution |  |  |  |  |  |  |  |  |
| Public | 30.3 | 32.2 | 12.4 | 25.1 | 20.9 | 13.1 | 21.3 | 11.0 |
| Private, not-for-profit | 47.7 | 26.4 | 14.5 | 28.8 | 21.7 | 10.9 | 19.2 | 7.7 |
| Private, for-profit | 20.5 | 36.1 | 7.6 | 25.2 | 25.5 | 6.5 | 31.0 | 10.1 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |  |  |  |
| Attained degree | 37.9 | 27.7 | 12.5 | 27.1 | 18.0 | 12.3 | 22.7 | 10.6 |
| No degree, enrolled | 34.1 | 32.4 | 12.1 | 24.7 | 18.5 | 11.9 | 22.7 | 13.4 |
| No degree, not enrolled | 23.5 | 37.6 | 13.7 | 24.5 | 30.0 | 12.0 | 17.8 | 6.9 |

Table 16.3-Percentage of 1989-90 beginning postsecondary students participating in volunteer/community service activities, and type of volunteer/community service organizations involved with within the past 2 years, by selected demographic and institutional characteristics-Continued

|  | $\begin{gathered} \text { Participated } \\ \text { in any volunteer/ } \\ \text { community } \\ \text { service in } \\ \text { last } 2 \text { years } \\ \hline \end{gathered}$ | Currently doing any volunteer work in 1994 | Type of volunteer/community service organization |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Service organization | Community ctr/social action/ neighbor group | Church/ churchrelated group | Hospital/ nursing home | Youth organization | Educational organization |
| Highest degree attained |  |  |  |  |  |  |  |  |
| None | 26.4 | 35.8 | 13.1 | 24.6 | 26.0 | 11.9 | 19.5 | 9.2 |
| Certificate | 25.7 | 30.8 | 11.8 | 15.6 | 22.1 | 11.6 | 25.5 | 11.6 |
| Associate's degree | 29.0 | 26.6 | 3.3 | 17.8 | 19.0 | 11.9 | 29.1 | 5.3 |
| Bachelor's degree | 47.7 | 27.2 | 15.1 | 32.5 | 16.6 | 12.5 | 20.2 | 11.8 |

_Too few cases for a reliable estimate.
"Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94), Data Analy

Table 16.4a-Percentage distribution of 1989-90 beginning postsecondary students according to current voter registration status in spring 1994, by selected demographic and institutional characteristics

|  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{c}\text { Previously } \\ \text { registered, }\end{array}$ |  |  |
| but not |  |  |  |  |
| currently |  |  |  |  |$)$

Table 16.4a—Percentage distribution of 1989-90 beginning postsecondary students according to current voter registration status in spring 1994, by selected demographic and institutional characteristics-Continued

|  | Currently registered | Previously registered, but not currently registered | Never registered | Not eligible to register |
| :---: | :---: | :---: | :---: | :---: |
| Level of first institution |  |  |  |  |
| 4 -year | 80.3 | 6.7 | 10.9 | 2.1 |
| 2-year | 73.5 | 8.4 | 14.8 | 3.3 |
| Less-than-2-year | 65.9 | 12.5 | 17.5 | 4.1 |
| Control of first institution |  |  |  |  |
| Public | 76.5 | 7.9 | 12.9 | 2.7 |
| Private, not-for-profit | 80.2 | 6.1 | 10.8 | 2.9 |
| Private, for-profit | 63.6 | 11.9 | 20.7 | 3.8 |
| Persistence and attainment as of spring 1994 |  |  |  |  |
| Attained degree | 78.0 | 6.8 | 12.6 | 2.6 |
| No degree, enrolled | 78.6 | 4.9 | 11.9 | 4.5 |
| No degree, not enrolled | 71.3 | 10.8 | 15.0 | 2.9 |
| Highest degree attained |  |  |  |  |
| None | 73.2 | 9.3 | 14.2 | 3.3 |
| Certificate | 73.5 | 7.5 | 15.7 | 3.2 |
| Associate's degree | 75.6 | 7.0 | 15.1 | 2.3 |
| Bachelor's degree | 81.3 | 6.4 | 9.9 | 2.4 |

-Too few cases for a reliable estimate.
*Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a singleparent, part time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 16.4b—Percentage of 1989-90 beginning postsecondary students who recently voted, by selected
demographic and institutional characteristics

|  | Voted in local/state/ national election since $2 / 92$ | Voted in 1992 presidential election |
| :---: | :---: | :---: |
| Total | 74.1 | 70.6 |
| Gender <br> Male <br> Female | $\begin{aligned} & 72.5 \\ & 75.4 \end{aligned}$ | $\begin{aligned} & 69.2 \\ & 71.9 \end{aligned}$ |
| Age in 1994 <br> 24 years or younger <br> 25-29 years <br> 30-34 years <br> 35 years or older | $\begin{aligned} & 74.1 \\ & 63.9 \\ & 70.0 \\ & 82.5 \end{aligned}$ | $\begin{aligned} & 70.5 \\ & 58.5 \\ & 66.4 \\ & 81.3 \end{aligned}$ |
| Number of risk factors when began at first institution ${ }^{*}$ <br> None <br> One73.2 <br> Two66.0 <br> Three or more | $\begin{aligned} & 77.1 \\ & 68.9 \\ & 65.2 \\ & 70.6 \end{aligned}$ | 73.3 67.3 |
| Socioeconomic status Lowest quartile Middle quartiles Highest quartile | $\begin{aligned} & 71.3 \\ & 72.9 \\ & 76.1 \end{aligned}$ | $\begin{aligned} & 68.1 \\ & 69.4 \\ & 72.8 \end{aligned}$ |
| Race-ethnicity of student <br> American Indian/Alaskan Native <br> Asian/Pacific Islander <br> Black, non-Hispanic <br> Hispanic <br> White, non-Hispanic | $\begin{aligned} & -\overline{1} \\ & 65.8 \\ & 73.9 \\ & 66.3 \\ & 75.0 \end{aligned}$ | $\begin{array}{r} - \\ 61.5 \\ 70.2 \\ 59.0 \\ 72.1 \end{array}$ |
| Marital status in 1994 <br> Never married <br> Married Divorced, widowed, separated | $\begin{aligned} & 75.6 \\ & 71.2 \\ & 69.5 \end{aligned}$ | $\begin{aligned} & 71.7 \\ & 68.5 \\ & 68.1 \end{aligned}$ |
| Parental education Less than high school diploma High school diploma Some postsecondary Bachelor's or higher | $\begin{aligned} & 70.2 \\ & 68.2 \\ & 77.1 \\ & 77.1 \end{aligned}$ | $\begin{aligned} & 64.6 \\ & 64.6 \\ & 73.9 \\ & 74.1 \end{aligned}$ |
| Level and control of first institution 4 -year <br> Public <br> Private, not-for-profit <br> Private, for profit | 79.7 79.6 | 76.1 76.0 |
| 2-year <br> Public <br> Private, not-for-profit <br> Private, for-profit | $\begin{aligned} & 70.2 \\ & 72.2 \\ & 60.3 \end{aligned}$ | $\begin{aligned} & 67.4 \\ & 66.9 \\ & 56.3 \end{aligned}$ |
| Less-than-2-year <br> Public Private, not-for-profit Private, for-profit | $\begin{aligned} & 62.5 \\ & 84.9 \\ & 63.6 \end{aligned}$ | $\begin{aligned} & 57.2 \\ & 82.4 \\ & 57.8 \end{aligned}$ |

Table 16.4b—Percentage of 1989-90 beginning postsecondary students who recently voted, by selected
demographic and institutional characteristics-Continued

|  | Voted in <br> local,state, <br> national <br> election <br> since $2 / 92$ | Voted <br> in 1992 <br> presidential <br> election |
| :--- | :---: | :---: |
| Level of first institution |  |  |
| 4-year | 79.7 | 76.1 |
| 2-year | 69.6 | 66.6 |
| Less-than-2-year | 64.3 | 58.7 |
| Control of first institution |  |  |
| Public | 73.8 | 70.6 |
| Private, not-for-profit | 78.9 | 75.1 |
| Private, for-profit | 62.4 | 57.2 |
| Persistence and attainment as of spring 1994 |  |  |
| Attained degree | 76.9 | 73.7 |
| No degree, enrolled | 79.6 | 75.1 |
| No degree, not enrolled | 66.6 | 63.1 |
| Highest degree attained |  |  |
| None 70.1 | 66.4 |  |
| Certificate | 69.0 | 66.3 |
| Associate's degree | 74.1 | 71.5 |
| Bachelor's degree | 81.7 | 77.8 |

-Too few cases for a reliable estimate.
"Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.

SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 16.5—Percentage of 1989-1990 beginning postsecondary students who had attained a bachelor's degree by June 1993 according to graduate school application and attendance, as of spring 1994, by selected demographic and institutional characteristics

| selected demographic and institutional characteristics |  |
| :--- | :--- |
| Applied or <br> intended to <br> apply to | Attended |
| graduate | graduate |
| school | school |

Bachelor's degree attainers by June 1993

| Total | 51.4 | 11.1 |
| :---: | :---: | :---: |
| Gender |  |  |
| Male | 48.1 | 11.1 |
| Female | 54.0 | 11.1 |
| Age in 1994 |  |  |
| 24 years or younger | 51.8 | 11.3 |
| 25-29 years | 37.9 | 4.0 |
| 30-34 years | - | - |
| 35 years or older | - | - |
| Number of risk factors when began at first institution ${ }^{*}$ |  |  |
| None | 50.8 | 11.6 |
| One54.5 | 10.8 |  |
| Two53.4 | 7.3 |  |
| Three or more | 36.3 | 5.2 |
| Socioeconomic status |  |  |
| Lowest quartile | 47.9 | 5.3 |
| Middle quartiles | 47.1 | 8.5 |
| Highest quartile | 53.8 | 12.8 |
| Race-ethnicity of student |  |  |
| American Indian/Alaskan Native | - | - |
| Asian/Pacific Islander | 71.3 | 16.3 |
| Black, non-Hispanic | 68.1 | 6.6 |
| Hispanic | 59.9 | 12.0 |
| White, non-Hispanic | 48.4 | 11.0 |
| Parental education |  |  |
| Less than high school diploma | 40.8 | 1.7 |
| High school diploma | 43.0 | 7.7 |
| Some postsecondary | 50.1 | 11.4 |
| Bachelor's or higher | 55.7 | 13.0 |
| Level of first institution |  |  |
| 4 -year | 53.5 | 12.0 |
| 2-year | 39.2 | 5.5 |

Less-than-2-year
-Too few cases for a reliable estimate.
"Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.

SOURCE:U.S.Departmentof Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 16.6-Percentage of 1989-90 beginning postsecondary students who took licensing exams and percentage of exam takers according to the type of licensing exam taken as of spring 1994, by selected demographic and institutional characteristics

| Taken any licensing exams |  | Type of licensing exam taken |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Teachers | Nursing | Medical | Communication | Business | Cosmetology | Engineering |
|  | Total | Students who took licensing exams |  |  |  |  |  |  |
| Total | 13.9 | 20.9 | 9.4 | 21.8 | 1.3 | 12.0 | 8.7 | 3.0 |
| Gender |  |  |  |  |  |  |  |  |
| Male | 13.0 | 10.6 | 2.3 | 15.0 | 1.9 | 18.3 | 2.8 | 6.4 |
| Female | 14.7 | 28.7 | 14.7 | 26.9 | 0.8 | 7.3 | 13.2 | 0.4 |
| Age in 1994 |  |  |  |  |  |  |  |  |
| 24 years or younger | 14.0 | 26.1 | 7.3 | 22.0 | 1.1 | 13.9 | 7.4 | 3.3 |
| 25-29 years | 12.3 | 3.0 | 13.2 | 11.4 | 0 | 11.5 | 9.7 | 0 |
| 30-34 years | 14.2 | 6.0 | 9.1 | 25.2 | 0.7 | 4.6 | 18.7 | 0 |
| 35 years or older | 15.2 | 7.1 | 21.5 | 25.8 | 4.7 | 5.2 | 14.2 | 0 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |  |
| None | 13.9 | 34.3 | 5.5 | 15.2 | 0.5 | 15.4 | 6.7 | 4.0 |
| Onel5.1 | 17.5 | 10.7 | 28.4 | 2.4 | 13.9 | 6.3 | 2.4 |  |
| Twol 1.3 | 8.5 | 10.2 | 20.6 | 0.4 | 14.5 | 12.0 | 0 |  |
| Three or more | 14.0 | 4.6 | 15.1 | 25.6 | 2.0 | 4.9 | 14.2 | 0.6 |
| Socioeconomic status |  |  |  |  |  |  |  |  |
| Lowest quartile | 10.8 | 5.9 | 12.6 | 27.7 | 0.2 | 8.0 | 12.9 | 0.3 |
| Middle quartiles | 14.1 | 21.4 | 9.4 | 22.3 | 1.2 | 9.0 | 10.8 | 2.8 |
| Highest quartile | 14.9 | 24.3 | 8.4 | 19.7 | 1.6 | 16.4 | 5.3 | 4.0 |
| Race-ethnicity of student |  |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | 17.3 | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 15.4 | 3.8 | 3.7 | 15.1 | 0 | 14.0 | 15.1 | 30.9 |
| Black, non-Hispanic | 8.3 | 21.1 | 1.9 | 31.8 | 0 | 11.6 | 16.0 | 0 |
| Hispanic | 9.9 | 14.0 | 1.2 | 4.6 | 0 | 30.4 | 0.9 | 1.6 |
| White, non-Hispanic | 14.9 | 22.4 | 10.8 | 22.8 | 1.5 | 10.8 | 8.5 | 1.9 |
| Marital status in 1994 |  |  |  |  |  |  |  |  |
| Never married | 12.9 | 27.0 | 6.1 | 19.8 | 1.3 | 13.1 | 5.7 | 4.9 |
| Married | 16.7 | 14.0 | 16.9 | 23.1 | 1.8 | 11.6 | 14.4 | 0.4 |
| Divorced, widowed, separated | 17.0 | 5.2 | 7.7 | 32.8 | 0 | 3.1 | 7.1 | 0 |

Table 16.6-Percentage of 1989-90 beginning postsecondary students who took licensing exams and percentage of exam takers according to the type of licensing exam taken as of spring 1994, by selected demographic and institutional characteristics-Continued

|  | Taken any licensing exams | Type of licensing exam taken |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Teachers | Nursing | Medical | Communication | Business | Cosmetology | Engineering |
|  | Total | Students who took licensing exams |  |  |  |  |  |  |
| Parental education |  |  |  |  |  |  |  |  |
| Less than high school diploma | 11.3 | 6.8 | 15.0 | 18.9 | 0 | 4.7 | 20.3 | 0 |
| High school diploma | 13.9 | 15.4 | 9.1 | 24.3 | 0.3 | 9.4 | 9.8 | 4.0 |
| Some postsecondary | 13.6 | 19.6 | 8.6 | 22.2 | 0.2 | 13.8 | 7.6 | 2.9 |
| Bachelor's or higher | 14.6 | 32.5 | 7.2 | 19.5 | 2.0 | 15.1 | 5.6 | 3.4 |
| Level and control of first institution |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Public | 13.6 | 40.1 | 4.8 | 21.0 | 0.4 | 10.3 | 4.0 | 5.2 |
| Private, not-for-profit | 15.4 | 32.8 | 6.9 | 10.5 | 0.2 | 26.1 | 0.4 | 6.2 |
| Private, for-profit | - | - | - | - | - | - | - | - |
| 2-year |  |  |  |  |  |  |  |  |
| Public | 12.8 | 10.9 | 12.1 | 26.7 | 2.5 | 11.2 | 6.2 | 0 |
| Private, not-for-profit | 17.4 | 8.1 | 36.5 | 22.8 | 2.9 | 5.0 | 17.5 | 1.6 |
| Private, for-profit | 12.1 | 1.7 | 4.5 | 30.7 | 3.9 | 13.4 | 5.1 | 0 |
| Less-than-2-year |  |  |  |  |  |  |  |  |
| Public | 19.6 | 0 | 31.0 | 11.4 | 0 | 9.2 | 32.1 | 0 |
| Private, not-for-profit | 13.4 | - | - | - | - | - | - | - |
| Private, for-profit | 19.2 | 0 | 6.5 | 17.5 | 0 | 0.9 | 45.5 | 0 |
| Level of first institution |  |  |  |  |  |  |  |  |
| 4 -year | 14.2 | 37.5 | 5.6 | 17.3 | 0.3 | 15.9 | 2.7 | 5.6 |
| 2 -year | 12.9 | 10.1 | 12.7 | 26.8 | 2.6 | 11.1 | 6.6 | 0.1 |
| Less-than-2-year | 19.1 | 0 | 11.9 | 16.3 | 0 | 3.2 | 41.3 | 0 |
| Control of first institution |  |  |  |  |  |  |  |  |
| Public | 13.3 | 22.0 | 9.9 | 23.9 | 1.6 | 10.8 | 6.2 | 2.0 |
| Private, not-for-profit | 15.5 | 29.1 | 10.6 | 12.3 | 0.5 | 23.3 | 2.5 | 5.5 |
| Private, for-profit | 16.6 | 0.5 | 5.9 | 21.1 | 1.1 | 4.3 | 34.8 | 0 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |  |  |  |
| Attained degree | 20.5 | 23.9 | 11.9 | 18.7 | 1.6 | 10.5 | 10.0 | 3.3 |
| No degree, enrolled | 8.9 | 14.2 | 3.5 | 43.1 | 1.4 | 11.7 | 0 | 0 |
| No degree, not enrolled | 6.7 | 10.0 | 2.5 | 22.7 | 0.3 | 20.1 | 9.3 | 0 |

Table 16.6-Percentage of 1989-90 beginning postsecondary students who took licensing exams and percentage of exam takers according to the type of licensing exam taken as of spring 1994, by selected demographic and institutional characteristics-Continued

|  | Taken any licensing exams | Type of licensing exam taken |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Teachers | Nursing | Medical | Communication | Business | Cosmetology | Engineering |
|  | Total | Students who took licensing exams |  |  |  |  |  |  |
| Highest degree attained |  |  |  |  |  |  |  |  |
| None 7.3 | 11.4 | 2.8 | 29.3 | 0.7 | 17.4 | 6.3 | 0 |  |
| Certificate | 26.2 | 0 | 16.3 | 18.7 | 2.2 | 4.2 | 28.2 | 0 |
| Associate's degree | 19.9 | 1.4 | 22.2 | 40.7 | 3.7 | 3.2 | 0.7 | 0.6 |
| Bachelor's degree | 17.9 | 52.3 | 3.7 | 8.0 | 0.1 | 18.7 | 0.7 | 7.0 |

-Too few cases for a reliable estimate.
*Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94), Data Analy

## Section 17

## Employment Experiences

## Section 17

## Employment Experiences

## Working While Enrolled

- Ninety-two (92) percent of all students had worked at some time while enrolled in postsecondary education and one-fifth ( 21 percent) of enrolled students had held two or more jobs simultaneously. (table 17.1)
- The likelihood of working while enrolled increased as the level of the last institution attended progressed from less-than-2-year to 2-year to 4-year. Specifically, students who started in 4year institutions were more likely to have worked while enrolled ( 96 percent) than those who started in 2-year ( 90 percent) or less-than-2-year institutions ( 76 percent). Similarly, students who started in 2-year institutions were more likely to have worked while enrolled than those who started in less than 2-year institutions. (table 17.1)


## Most recent job

- In 1993, men and women were equally likely to report working in professional and sales occupations ( 11 percent and 9 percent, respectively, were in professional occupations, and 7 percent each in sales). However, men were more likely than women to be employed as craftsmen ( percent compared with 1 percent), laborers ( 7 percent compared with 2 percent), skilled machinists ( 7 percent compared with 2 percent), and managers ( 17 percent compared with 13 percent). Women more commonly held clerical (36 percent compared with 14 percent) and service jobs than did men (19 percent compared with 13 percent). (table 17.2)
- As the level of the degree attained increased from none to a bachelor's degree, generally so did the likelihood of working in a professional occupation in 1993. (table 17.2)
- Eighty-two (82) percent of students reported overall satisfaction with their most recent job. When asked about satisfaction with particular aspects of their work, more than three-quarters reported that they were satisfied with the importance of the work ( 82 percent), the difficulty and challenge of the work ( 76 percent), and their perceived job security/permanence ( 77 percent). Less than two-thirds reported being satisfied with the promotion (63 percent) and further educational opportunities ( 60 percent) the job afforded them. (table 17.3)


## Unemployment Experiences

- More than one-quarter (29 percent) of students reported experiencing at least one spell of unemployment since 1989-90. (table 17.4)
- Students were more likely to report being unemployed during 1992 than in any other year. Specifically, 12 percent of students reported experiencing a period of unemployment during that year as compared with 9 percent in 1990, 5 percent in 1991 and 8 percent in 1993. (table 17.5)
- Bachelor's degree attainers were less likely to report being unemployed during postsecondary education ( 23.3 percent) than those who did not attain any credential ( 31 percent) or who attained a certificate ( 32 percent). They were also less likely to report receiving unemployment compensation at some time since 1989-90 (BA/none-2 percent compared with 21 percent, BA/C percent compared with 25 percent). However, since bachelor's degree attainers were enrolled longer while working toward their degrees they spent less time in the labor market and thus were less likely to be at risk for unemployment. (table 17.4)


## Employment After Postsecondary Education

- Students who did not attain a postsecondary credential (5 percent) and those who attained a certificate ( 7 percent) were more likely to report delays of 12 or more months in obtaining employment after they left postsecondary education than their counterparts who attained an associate's ( 1 percent) or a bachelor's degree ( 0.4 percent). (table 17.6)
- More than one-quarter of postsecondary students (26 percent) had asked family, friends, or faculty for help in order to obtain their most recent principal job. Men were more likely to do so than women ( 31 percent compared with 22 percent). On the other hand, women more commonly ls through want ads (18 percent compared with 11 percent), went to the campus placement offices (6 percent compared with 4 percent), and submitted resumes and applications than did men ( 27 perce compared with 20 percent). (table 17.7)
- While more than three-quarters ( 77 percent) of all students reported that they were able to apply the skills they had learned in school in their most recent principal job, 43 percent reported that they could have obtained that job without their education. Furthermore, 35 percent reported that their most recent job was different from the one for which they had prepared during postsecondary education. Male students were more likely than female students to report holding a job that was different from the one for which they had prepared during postsecondary education ( 45 percent compared with 28 percent), as were bachelor's degree attainers ( 41 percent) compared with those who had attained an associate's degree or a certificate ( 26 percent each). (table 17.8)

Table 17.1—Percentage of 1989-90 beginning postsecondary students who were employed while enrolled at some time during postsecondary education, by selected demographic and institutional characteristics

|  | Ever worked while enrolled | Had at least one co-op/ apprentice job | Had at least one on-campus job | Had at least one job related to studies | Held more than one job simultaneously |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 92.1 | 10.4 | 14.8 | 17.6 | 20.5 |
| Gender |  |  |  |  |  |
| Male | 93.6 | 10.1 | 13.3 | 15.8 | 20.1 |
| Female | 90.8 | 10.6 | 16.1 | 19.2 | 20.7 |
| Academic year of last enrollment |  |  |  |  |  |
| 1989-90 | 80.0 | 1.7 | 1.4 | 2.1 | 6.4 |
| 1990-91 | 81.2 | 3.5 | 3.8 | 8.1 | 10.7 |
| 1991-92 | 94.0 | 7.5 | 8.3 | 9.7 | 15.4 |
| 1992-93 | 96.8 | 19.6 | 27.8 | 27.9 | 27.4 |
| 1993-94 | 96.8 | 14.1 | 19.3 | 24.2 | 25.7 |
| Age when began at first institution |  |  |  |  |  |
| 18 years or younger | 96.2 | 15.0 | 20.6 | 24.0 | 24.4 |
| 19 years | 89.8 | 8.3 | 10.4 | 12.2 | 20.4 |
| 20-29 years | 85.6 | 3.0 | 4.2 | 7.4 | 14.0 |
| 30 years or older | 77.0 | 2.0 | 2.1 | 3.3 | 8.1 |
| Number of risk factors when began at first institution ${ }^{1}$ |  |  |  |  |  |
| None | 95.6 | 16.0 | 23.9 | 26.2 | 21.8 |
| One93.0 | 13.4 | 14.4 | 18.7 | 26.4 |  |
| Two90.2 | 6.5 | 5.9 | 10.6 | 20.3 |  |
| Three or more | 85.1 | 1.9 | 3.6 | 5.8 | 13.7 |
| Socioeconomic status |  |  |  |  |  |
| Lowest quartile | 82.8 | 5.2 | 7.2 | 9.1 | 12.8 |
| Middle quartiles | 90.8 | 8.5 | 13.3 | 14.7 | 19.1 |
| Highest quartile | 97.1 | 14.4 | 19.2 | 23.8 | 24.7 |
| Number of jobs held during PSE |  |  |  |  |  |
| None | - | - | - | - | - |
| One84.5 | 1.5 | 2.4 | 3.4 | 0 |  |
| Two 4.4 | 5.2 | 5.7 | 7.8 | 11.9 |  |
| Three or more | 97.4 | 15.4 | 22.5 | 26.1 | 30.7 |
| Race-ethnicity of student |  |  |  |  |  |
| American Indian/Alaskan Native | 95.0 | 5.6 | 12.3 | 7.7 | 28.0 |
| Asian/Pacific Islander | 87.7 | 15.4 | 21.8 | 30.8 | 21.1 |
| Black, non-Hispanic | 86.3 | 12.3 | 16.6 | 12.6 | 16.0 |
| Hispanic | 90.9 | 9.4 | 12.2 | 14.8 | 29.8 |
| White, non-Hispanic | 93.1 | 10.1 | 14.5 | 17.8 | 19.9 |
| Level of last institution |  |  |  |  |  |
| 4 -year | 96.2 | 18.1 | 26.7 | 27.5 | 26.2 |
| 2-year | 90.2 | 4.7 | 4.8 | 9.5 | 17.0 |
| Less-than-2-year | 77.5 | 3.8 | 1.5 | 8.6 | 7.8 |

Table 17.1—Percentage of 1989-90 beginning postsecondary students who were employed while enrolled at some time during postsecondary education, by selected demographic and institutional characteristics-Continued

|  | Ever worked while enrolled | Had at least one co-op/ apprentice job | Had at least one on-campus job | Had at least one job related to studies | Held more than one job simultaneously |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Control of last institution |  |  |  |  |  |
| Public | 92.9 | 10.5 | 13.9 | 17.7 | 21.6 |
| Private, not-for-profit | 95.0 | 19.8 | 31.4 | 28.0 | 25.3 |
| Private, for-profit | 80.6 | 3.8 | 1.9 | 8.2 | 7.6 |
| Degree working toward at last institution |  |  |  |  |  |
| None 85.2 | 2.6 | 4.1 | 6.1 | 14.3 |  |
| Certificate | 81.8 | 4.1 | 3.0 | 7.1 | 10.8 |
| Associate's degree | 92.1 | 5.3 | 4.9 | 11.8 | 17.8 |
| Bachelor's degree | 96.5 | 17.1 | 25.5 | 26.1 | 26.4 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |
| Attained degree | 93.2 | 15.9 | 20.8 | 25.6 | 23.8 |
| No degree, enrolled | 96.4 | 9.3 | 18.8 | 20.0 | 25.7 |
| No degree, not enrolled | 88.2 | 4.8 | 5.5 | 6.7 | 14.6 |
| Highest degree attained |  |  |  |  |  |
| None 90.4 | 6.0 | 9.1 | 10.3 | 17.6 |  |
| Certificate | 83.4 | 4.9 | 3.7 | 11.1 | 12.6 |
| Associate's degree | 95.8 | 12.1 | 10.1 | 23.0 | 24.0 |
| Bachelor's degree | 97.1 | 23.0 | 33.8 | 33.7 | 29.2 |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.
${ }^{2}$ Postsecondary education.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 17.2—Percentage distribution of 1989-90 beginning postsecondary students according to their primary occupation in 1993, by selected demographic and institutional characteristics

|  | Clerical | $\begin{gathered} \text { Craftsman/ } \\ \text { repair } \end{gathered}$ | Laborer | Manager/ administrator | Skilled machinist | Professional | Sales | Services including protective services | Technical/ computer | Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 25.5 | 5.2 | 4.3 | 15.0 | 4.5 | 9.8 | 7.2 | 16.0 | 5.6 | 6.8 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 14.2 | 9.6 | 7.1 | 17.4 | 6.9 | 10.5 | 7.3 | 13.4 | 5.7 | 7.9 |
| Female | 35.8 | 1.2 | 1.8 | 12.8 | 2.3 | 9.3 | 7.1 | 18.5 | 5.4 | 5.8 |
| Academic year of last enrollment |  |  |  |  |  |  |  |  |  |  |
| 1989-90 | 22.7 | 9.1 | 6.2 | 14.8 | 11.5 | 5.0 | 4.2 | 15.6 | 3.9 | 7.0 |
| 1990-91 | 29.5 | 6.3 | 5.3 | 12.2 | 4.7 | 5.9 | 6.2 | 18.3 | 4.9 | 6.7 |
| 1991-92 | 22.8 | 8.1 | 3.8 | 23.0 | 2.8 | 7.6 | 6.5 | 14.0 | 5.3 | 6.2 |
| 1992-93 | 22.8 | 2.5 | 2.2 | 16.4 | 2.5 | 19.6 | 7.5 | 10.8 | 5.1 | 10.8 |
| 1993-94 | 28.1 | 3.8 | 4.6 | 13.2 | 3.6 | 9.6 | 9.1 | 16.3 | 6.6 | 5.2 |
| Age when began at first institution |  |  |  |  |  |  |  |  |  |  |
| 18 years or younger | 27.5 | 2.9 | 4.5 | 15.2 | 2.7 | 10.9 | 8.4 | 15.6 | 5.7 | 6.7 |
| 19 years | 22.0 | 7.9 | 3.4 | 15.8 | 2.8 | 9.1 | 9.4 | 19.1 | 4.8 | 5.7 |
| 20-29 years | 20.7 | 11.3 | 5.0 | 12.1 | 11.0 | 5.9 | 4.7 | 16.7 | 6.5 | 6.1 |
| 30 years or older | 24.4 | 6.8 | 3.6 | 19.0 | 8.4 | 10.7 | 1.4 | 13.8 | 5.0 | 6.9 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |  |  |  |
| None | 26.4 | 2.0 | 4.6 | 14.5 | 2.6 | 11.1 | 9.7 | 16.3 | 6.3 | 6.6 |
| One24.8 | 5.3 | 4.6 | 14.7 | 5.1 | 10.8 | 6.8 | 16.5 | 5.0 | 6.4 |  |
| Two25.1 | 11.4 | 3.4 | 20.7 | 1.8 | 6.1 | 7.0 | 15.5 | 3.4 | 5.6 |  |
| Three or more | 24.5 | 8.3 | 4.2 | 14.3 | 8.9 | 8.1 | 3.6 | 15.3 | 6.1 | 6.6 |
| Socioeconomic status |  |  |  |  |  |  |  |  |  |  |
| Lowest quartile | 25.0 | 6.0 | 3.8 | 14.3 | 8.9 | 8.5 | 5.6 | 17.1 | 4.7 | 6.2 |
| Middle quartiles | 25.6 | 6.5 | 5.4 | 14.6 | 4.4 | 8.0 | 6.9 | 15.9 | 5.9 | 6.8 |
| Highest quartile | 25.6 | 3.4 | 3.2 | 15.8 | 3.2 | 12.4 | 8.1 | 15.8 | 5.5 | 7.0 |
| Number of jobs held during PSE |  |  |  |  |  |  |  |  |  |  |
| None | - | - | - | - | - | - | - | - | - | - |
| One25.4 | 7.3 | 3.7 | 20.9 | 5.1 | 8.0 | 4.7 | 13.0 | 5.9 | 6.0 |  |
| Two25.5 | 6.8 | 4.4 | 14.1 | 5.3 | 8.9 | 6.5 | 15.4 | 5.8 | 7.2 |  |
| Three or more | 25.5 | 4.1 | 4.5 | 13.6 | 4.1 | 10.7 | 8.1 | 17.1 | 5.4 | 6.9 |

Table 17.2—Percentage distribution of 1989-90 beginning postsecondary students according to their primary occupation in 1993, by selected demographic and institutional characteristics-Continued

|  | Clerical | Craftsman/ repair | Laborer | Manager/ administrato | Skilled machinist | Professional | Sales | Services including protective services | Technical/ computer | Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Race-ethnicity of student |  |  |  |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 29.3 | 3.9 | 3.5 | 10.4 | 5.1 | 17.6 | 7.6 | 10.3 | 6.0 | 6.2 |
| Black, non-Hispanic | 29.8 | 1.3 | 5.0 | 10.8 | 4.7 | 7.3 | 8.6 | 23.6 | 2.0 | 6.9 |
| Hispanic | 39.6 | 6.4 | 2.9 | 14.4 | 5.2 | 6.7 | 7.7 | 11.2 | 2.5 | 3.4 |
| White, non-Hispanic | 23.7 | 5.5 | 4.3 | 15.7 | 4.4 | 10.1 | 6.9 | 16.0 | 6.3 | 7.2 |
| Level of last institution |  |  |  |  |  |  |  |  |  |  |
| 4 -year | 26.0 | 2.5 | 4.5 | 14.4 | 2.3 | 13.9 | 8.9 | 14.5 | 6.3 | 6.8 |
| 2-year | 25.1 | 7.3 | 3.7 | 17.4 | 6.4 | 6.6 | 6.3 | 15.1 | 5.2 | 7.0 |
| Less-than-2-year | 25.8 | 9.6 | 7.2 | 7.8 | 8.4 | 4.7 | 4.2 | 24.4 | 4.6 | 3.3 |
| Control of last institution |  |  |  |  |  |  |  |  |  |  |
| Public | 24.9 | 5.2 | 4.2 | 15.5 | 4.5 | 9.2 | 7.6 | 16.0 | 5.8 | 7.1 |
| Private, not-for-profit | 25.8 | 2.2 | 3.9 | 15.2 | 2.8 | 17.4 | 8.3 | 11.8 | 6.2 | 6.4 |
| Private, for-profit | 30.1 | 9.2 | 6.2 | 11.5 | 8.1 | 5.0 | 4.2 | 19.1 | 3.7 | 3.0 |
| Degree working toward at last institution |  |  |  |  |  |  |  |  |  |  |
| None | 28.5 | 7.1 | 4.9 | 16.1 | 6.2 | 6.1 | 2.0 | 12.9 | 3.7 | 12.4 |
| Certificate | 25.8 | 7.6 | 5.9 | 11.8 | 9.4 | 5.2 | 4.2 | 21.2 | 5.3 | 3.7 |
| Associate's degree | 25.4 | 6.6 | 3.7 | 15.7 | 5.8 | 8.1 | 7.2 | 14.8 | 6.2 | 6.5 |
| Bachelor's degree | 25.2 | 2.9 | 4.2 | 15.8 | 2.1 | 12.5 | 9.2 | 15.2 | 5.9 | 6.9 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |  |  |  |  |  |
| Attained degree | 25.5 | 3.8 | 3.3 | 13.5 | 3.1 | 13.7 | 6.7 | 17.3 | 7.2 | 5.9 |
| No degree, enrolled | 28.9 | 3.5 | 5.1 | 13.3 | 4.0 | 6.3 | 10.5 | 17.7 | 6.2 | 4.5 |
| No degree, not enrolled | 24.2 | 7.7 | 5.6 | 18.0 | 6.8 | 5.8 | 6.9 | 13.7 | 3.4 | 7.9 |
| Highest degree attained |  |  |  |  |  |  |  |  |  |  |
| None | 25.4 | 6.6 | 5.5 | 16.8 | 6.1 | 5.9 | 7.9 | 14.8 | 4.1 | 7.0 |
| Certificate | 23.8 | 10.2 | 5.2 | 8.6 | 5.8 | 6.7 | 4.6 | 25.0 | 6.7 | 3.3 |
| Associate's degree | 27.6 | 2.9 | 2.5 | 15.8 | 3.8 | 11.7 | 5.6 | 17.5 | 8.1 | 4.7 |
| Bachelor's degree | 25.5 | 1.1 | 2.7 | 14.9 | 1.5 | 18.0 | 8.2 | 13.4 | 7.0 | 7.7 |

-Too few cases for a reliable estimate.
${ }^{1}$ Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.
${ }^{2}$ Postsecondary education.
NOTE: Includes all students employed in 1993.
SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analy

Table 17.3—Percentage of 1989-90 beginning postsecondary students reporting satisfaction with aspects of their most recent job, by selected demographic and institutional characteristics

|  | Pay \& fringe benefits | Job security/ permanence | Promotion opportunity | Further educational opportunities | Importance of work | Difficulty/ <br> challenge of work | Overall satisfaction |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 72.2 | 77.4 | 63.1 | 60.0 | 81.5 | 76.0 | 82.3 |
| Gender |  |  |  |  |  |  |  |
| Male | 74.1 | 77.2 | 65.6 | 60.0 | 79.4 | 77.8 | 82.0 |
| Female | 70.6 | 77.5 | 60.9 | 60.0 | 83.3 | 74.5 | 82.5 |
| Academic year of last enrollment |  |  |  |  |  |  |  |
| 1989-90 | 73.4 | 77.8 | 67.1 | 60.5 | 83.7 | 78.2 | 82.5 |
| 1990-91 | 72.3 | 78.4 | 60.0 | 58.3 | 83.2 | 75.3 | 83.9 |
| 1991-92 | 72.0 | 75.6 | 61.6 | 57.3 | 80.6 | 74.0 | 82.9 |
| 1992-93 | 71.6 | 77.7 | 63.8 | 61.2 | 81.1 | 78.0 | 82.0 |
| 1993-94 | 73.0 | 79.2 | 63.2 | 61.8 | 80.1 | 77.5 | 81.8 |
| Age when began at first institution |  |  |  |  |  |  |  |
| 18 years or younger | 72.3 | 79.9 | 64.4 | 59.6 | 79.5 | 76.8 | 81.5 |
| 19 years | 73.1 | 74.1 | 62.0 | 58.8 | 80.6 | 74.2 | 79.7 |
| 20-29 years | 74.3 | 74.5 | 61.5 | 59.3 | 83.5 | 73.3 | 82.4 |
| 30 years or older | 70.6 | 73.8 | 60.0 | 64.8 | 87.2 | 80.0 | 86.7 |
| Number of risk factors when began at first institution |  |  |  |  |  |  |  |
| None | 73.6 | 78.6 | 65.7 | 61.0 | 78.9 | 75.1 | 82.3 |
| One70.4 | 77.3 | 62.6 | 61.1 | 80.7 | 75.4 | 80.8 |  |
| Two70.5 | 80.5 | 69.2 | 53.7 | 83.9 | 80.8 | 81.1 |  |
| Three or more | 73.9 | 74.4 | 57.8 | 60.8 | 83.8 | 75.7 | 83.1 |
| Socioeconomic status |  |  |  |  |  |  |  |
| Lowest quartile | 68.2 | 73.6 | 57.7 | 60.3 | 83.3 | 75.9 | 81.2 |
| Middle quartiles | 72.9 | 76.8 | 63.3 | 60.2 | 82.1 | 76.7 | 80.8 |
| Highest quartile | 73.1 | 80.0 | 65.4 | 59.7 | 79.9 | 75.2 | 84.7 |
| Number of jobs held during PSE |  |  |  |  |  |  |  |
| None | - | - | - | - | - | - | - |
| One82.1 | 87.0 | 72.7 | 68.0 | 85.8 | 77.7 | 86.1 |  |
| Two69.4 | 74.5 | 64.7 | 62.8 | 83.5 | 78.5 | 82.6 |  |
| Three or more | 69.6 | 74.9 | 58.8 | 55.8 | 79.1 | 74.4 | 80.7 |
| Race-ethnicity of student |  |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - | - |
| Asian/Pacific Islander | 79.4 | 73.2 | 60.9 | 54.9 | 85.3 | 72.5 | 88.3 |
| Black, non-Hispanic | 61.8 | 66.6 | 61.5 | 56.8 | 80.2 | 70.6 | 76.0 |
| Hispanic | 79.5 | 80.3 | 56.8 | 58.4 | 81.2 | 71.2 | 81.4 |
| White, non-Hispanic | 72.2 | 78.4 | 63.9 | 60.7 | 81.7 | 77.3 | 82.9 |
| Level of last institution |  |  |  |  |  |  |  |
| 4 -year | 69.6 | 76.1 | 61.0 | 57.6 | 75.4 | 71.4 | 78.9 |
| 2-year | 73.9 | 79.9 | 65.4 | 62.7 | 84.1 | 78.8 | 83.9 |
| Less-than-2-year | 75.0 | 68.8 | 57.2 | 55.6 | 85.9 | 76.5 | 82.4 |
| Control of last institution |  |  |  |  |  |  |  |
| Public | 72.5 | 78.1 | 63.1 | 60.0 | 81.4 | 75.9 | 82.4 |
| Private, not-for-profit | 72.1 | 78.3 | 64.5 | 62.6 | 76.2 | 73.7 | 80.1 |
| Private, for-profit | 73.2 | 70.9 | 59.9 | 58.0 | 85.4 | 77.6 | 81.4 |

Table 17.3-Percentage of 1989-90 beginning postsecondary students reporting satisfaction with aspects of their most recent job, by selected demographic and institutional characteristics-Continued

|  | Pay \& fringe benefits | Job security/ permanence | Promotion opportunity | Further educational opportunities | Importance of work | Difficulty/ challenge of work | $\begin{gathered} \text { Overall } \\ \text { satis- } \\ \text { faction } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Degree working toward at last institution |  |  |  |  |  |  |  |
| None | 80.1 | 78.9 | 65.9 | 68.8 | 84.6 | 78.5 | 82.2 |
| Certificate | 76.6 | 73.5 | 64.7 | 61.0 | 87.4 | 83.3 | 84.6 |
| Associate's degree | 72.2 | 78.8 | 61.4 | 61.1 | 81.5 | 75.8 | 83.3 |
| Bachelor's degree | 69.6 | 77.1 | 62.2 | 57.5 | 77.2 | 71.9 | 79.9 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |  |  |
| Attained degree | 73.2 | 75.0 | 62.3 | 62.1 | 82.5 | 77.2 | 82.4 |
| No degree, enrolled | 77.5 | 75.1 | 58.1 | 64.5 | 77.8 | 68.3 | 80.5 |
| No degree, not enrolled | 71.4 | 79.6 | 64.4 | 57.5 | 81.0 | 76.2 | 82.0 |
| Highest degree attained |  |  |  |  |  |  |  |
| None | 72.2 | 79.0 | 63.5 | 58.4 | 80.6 | 75.2 | 81.8 |
| Certificate | 75.3 | 74.6 | 60.2 | 62.3 | 87.8 | 79.3 | 85.2 |
| Associate's degree | 73.9 | 75.9 | 64.5 | 67.8 | 86.5 | 82.4 | 85.5 |
| Bachelor's degree | 70.7 | 74.9 | 62.8 | 58.4 | 75.1 | 72.1 | 77.9 |

-Too few cases for a reliable estimate.
${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance and working full time while enrolled.
${ }^{2}$ Postsecondary education.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 17.4—Percentage of 1989-90 beginning postsecondary students who were ever unemployed and average
duration of unemployment as of spring 1994, by selected demographic and institutional
characteristics

|  | Total <br> ever <br> unemployed <br> through <br> 1994 | Ever received unemployment compensation | Average duration of unemployment in weeks ${ }^{1}$ |
| :---: | :---: | :---: | :---: |
| Total | 28.7 | 16.1 | 9.4 |
| Gender |  |  |  |
| Male | 28.5 | 15.8 | 9.0 |
| Female | 28.8 | 16.3 | 9.7 |
| Academic year of last enrollment $\quad 36.4$ |  |  |  |
| 1989-90 | 36.4 | 22.6 | 12.1 |
| 1990-91 | 31.2 | 29.0 | 9.4 |
| 1991-92 | 32.2 | 14.0 | 9.1 |
| 1992-93 | 27.0 | 7.5 | 8.7 |
| 1993-94 | 26.5 | 17.3 | 7.5 |
| Age when began at first institution |  |  |  |
| 18 years or younger | 27.2 | 10.2 | 8.1 |
| 19 years | 31.9 | 18.6 | 9.6 |
| 20-29 years | 32.7 | 26.9 | 11.7 |
| 30 years or older | 27.1 | 31.5 | 11.9 |
| Number of risk factors when began at first institution ${ }^{2}$ |  |  |  |
|  |  |  |  |
| One28.6 | 14.3 | 9.0 |  |
| Two28.6 | 27.8 | 10.1 |  |
| Three or more | 29.6 | 28.9 | 11.4 |
| Socioeconomic status 35.6 |  |  |  |
| Lowest quartile | 35.6 | 29.6 | 13.4 |
| Middle quartiles | 28.7 | 13.8 | 9.7 |
| Highest quartile | 26.2 | 12.3 | 7.1 |
| Number of jobs held during PSE |  |  |  |
| None | 30.8 | 1.3 | 35.1 |
| One18.6 | 19.9 | 15.4 |  |
| Two26.1 | 16.8 | 10.5 |  |
| Three or more | 32.8 | 15.7 | 7.0 |
| Race-ethnicity of student |  |  |  |
| American Indian/Alaskan Native | 48.7 | - | - |
| Asian/Pacific Islander | 24.5 | 7.5 | 12.9 |
| Black, non-Hispanic | 40.0 | 14.1 | 13.6 |
| Hispanic | 28.4 | 16.3 | 11.0 |
| White, non-Hispanic | 27.4 | 16.4 | 8.3 |
| Level of last institution |  |  |  |
| 4 -year | 25.5 | 9.2 | 8.5 |
| 2-year | 29.4 | 19.9 | 8.8 |
| Less-than-2-year | 40.8 | 29.5 | 13.8 |

Table 17.4—Percentage of 1989-90 beginning postsecondary students who were ever unemployed and average duration of unemployment as of spring 1994, by selected demographic and institutional characteristics-Continued

|  | Total <br> ever <br> unemployed <br> through <br> 1994 | Ever received unemployment compensation | Average duration of unemployment in weeks ${ }^{1}$ |
| :---: | :---: | :---: | :---: |
| Control of last institution |  |  |  |
| Public | 27.6 | 16.5 | 8.8 |
| Private, not-for-profit | 25.2 | 6.8 | 9.0 |
| Private, for-profit | 39.9 | 25.4 | 12.6 |
| Degree working toward at last institution |  |  |  |
| None | 33.1 | 18.7 | 11.6 |
| Certificate | 35.8 | 27.1 | 11.0 |
| Associate's degree | 32.1 | 22.8 | 9.1 |
| Bachelor's degree | 24.4 | 7.2 | 8.3 |
| Persistence and attainment as of spring 1994 |  |  |  |
| Attained degree | 26.9 | 12.0 | 9.0 |
| No degree, enrolled | 23.6 | 14.1 | 8.8 |
| No degree, not enrolled | 33.1 | 22.1 | 9.9 |
| Highest degree attained |  |  |  |
| None | 30.6 | 20.5 | 9.6 |
| Certificate | 32.4 | 24.5 | 10.4 |
| Associate's degree | 28.9 | 13.9 | 7.8 |
| Bachelor's degree | 23.3 | 2.3 | 8.7 |

-Too few cases for a reliable estimate.
${ }^{1}$ Includes only those who were unemployed. Unemployment is defined as having no job but actively seeking work.
${ }^{2}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.
${ }^{3}$ Postsecondary education.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 17.5-Percentage of 1989-90 beginning postsecondary students who were ever unemployed during calendar years 1990 through 1993, by selected demographic and institutional characteristics

|  | $\begin{gathered} \text { Unemployed } \\ \text { during } \\ 1990 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Unemployed } \\ \text { during } \\ 1991 \\ \hline \end{gathered}$ | Unemployed during 1992 | $\begin{gathered} \text { Unemployed } \\ \text { during } \\ 1993 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Total | 9.1 | 4.9 | 12.1 | 8.0 |
| Gender |  |  |  |  |
| Male | 9.4 | 5.1 | 12.0 | 7.2 |
| Female | 8.9 | 4.6 | 12.1 | 8.7 |
| Academic year of last enrollment |  |  |  |  |
| 1989-90 | 21.7 | 9.9 | 12.3 | 5.3 |
| 1990-91 | 11.8 | 12.6 | 10.4 | 6.9 |
| 1991-92 | 10.6 | 3.2 | 17.2 | 6.4 |
| 1992-93 | 3.5 | 1.9 | 12.7 | 12.3 |
| 1993-94 | 5.6 | 2.8 | 9.3 | 10.2 |
| Age when began at first institution |  |  |  |  |
| 18 years or younger | 6.9 | 3.6 | 11.4 | 8.9 |
| 19 years | 12.0 | 7.7 | 13.3 | 8.7 |
| 20-29 years | 14.1 | 7.8 | 14.3 | 5.6 |
| 30 years or older | 11.1 | 5.3 | 12.8 | 6.2 |
| Number of risk factors when began at first institution |  |  |  |  |
| None | 5.5 | 4.0 | 13.1 | 9.8 |
| One9.9 | 3.9 | 11.1 | 8.3 |  |
| Twol4.2 | 5.6 | 8.8 | 5.6 |  |
| Three or more | 12.5 | 7.3 | 13.3 | 5.7 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 16.6 | 6.9 | 16.4 | 8.0 |
| Middle quartiles | 9.7 | 4.8 | 12.3 | 7.0 |
| Highest quartile | 5.9 | 4.2 | 10.3 | 9.1 |
| Number of jobs held during PSE |  |  |  |  |
| None | 10.4 | 0 | 20.4 | 0.0 |
| One8.6 | 0.5 | 6.7 | 2.7 |  |
| Twol0.6 | 4.9 | 10.0 | 6.8 |  |
| Three or more | 8.8 | 6.5 | 14.3 | 10.5 |
| Race-ethnicity of student |  |  |  |  |
| American Indian/Alaskan Native | 23.5 | 4.3 | 19.6 | 5.5 |
| Asian/Pacific Islander | 4.4 | 1.8 | 10.8 | 9.8 |
| Black, non-Hispanic | 15.8 | 7.5 | 20.2 | 9.2 |
| Hispanic | 8.9 | 3.3 | 14.8 | 6.7 |
| White, non-Hispanic | 8.5 | 4.9 | 10.9 | 7.9 |
| Level of last institution |  |  |  |  |
| 4-year | 4.3 | 2.8 | 12.3 | 8.9 |
| 2-year | 11.3 | 6.1 | 10.9 | 7.3 |
| Less-than-2-year | 23.0 | 10.1 | 16.8 | 7.8 |
| Control of last institution |  |  |  |  |
| Public | 8.4 | 4.4 | 12.0 | 8.1 |
| Private, not-for-profit | 4.7 | 2.9 | 10.7 | 9.2 |
| Private, for-profit | 19.2 | 10.8 | 15.1 | 7.1 |

Table 17.5-Percentage of 1989-90 beginning postsecondary students who were ever unemployed during calendar years 1990 through 1993, by selected demographic and institutional characteristics-Continued

| characteristics—Continued |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Unemployed <br> during <br> 1990 | Unemployed <br> during <br> 1991 | Unemployed <br> during <br> 1992 | Unemployed <br> during |
|  |  |  |  |  |
|  |  |  |  |  |
| Degree working toward at last institution | 18.3 | 8.0 | 16.0 | 6.6 |
| None | 16.6 | 8.1 | 14.9 | 6.9 |
| Certificate | 11.4 | 5.9 | 11.3 | 9.3 |
| Associate's degree | 4.5 | 2.7 | 11.6 | 8.3 |
| Bachelor's degree |  |  |  |  |
| Persistence and attainment as of spring 1994 |  |  |  |  |
| Attained degree | 6.7 | 2.9 | 12.6 | 8.5 |
| No degree, enrolled | 4.6 | 3.9 | 12.7 | 7.9 |
| No degree, not enrolled | 14.1 | 8.2 | 11.5 | 7.4 |
|  |  |  |  |  |
| Highest degree attained as of spring 1994 |  |  |  |  |
| None | 11.6 | 7.0 | 11.8 | 7.5 |
| Certificate | 16.8 | 7.2 | 13.1 | 6.0 |
| Associate's degree | 4.6 | 2.7 | 15.0 | 9.7 |
| Bachelor's degree | 2.6 | 0.9 | 11.4 | 9.3 |

${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.
${ }^{2}$ Postsecondary education.
NOTE: Includes only those who were unemployed. Unemployment is defined as having no job but actively seeking work.
SOURCE:U.S.Department of Education,National Center forEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

Table 17.6-Percentage distribution of 1989-90 beginning postsecondary students according to the number of months after leaving postsecondary education before obtaining first principal job, by selected demographic and institutional characteristics

|  | Less <br> than 1 month | $\begin{gathered} 1-3 \\ \text { months } \end{gathered}$ | $\begin{gathered} 3-6 \\ \text { months } \end{gathered}$ | $\begin{gathered} 6-9 \\ \text { months } \end{gathered}$ | $\begin{gathered} 9-12 \\ \text { months } \\ \hline \end{gathered}$ | More <br> than 12 months ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 85.2 | 4.4 | 3.3 | 1.8 | 1.5 | 3.7 |
| Gender |  |  |  |  |  |  |
| Male | 87.2 | 3.6 | 2.7 | 2.0 | 1.5 | 3.1 |
| Female | 83.6 | 5.1 | 3.9 | 1.6 | 1.5 | 4.3 |
| Academic year of last enrollment |  |  |  |  |  |  |
| 1989-90 | 83.1 | 3.4 | 3.5 | 1.7 | 2.4 | 5.9 |
| 1990-91 | 71.3 | 6.2 | 6.2 | 3.2 | 3.1 | 10.2 |
| 1991-92 | 83.7 | 4.2 | 3.2 | 3.3 | 1.9 | 3.6 |
| 1992-93 | 86.5 | 7.9 | 3.9 | 1.2 | 0.4 | 0.2 |
| 1993-94 | 98.7 | 1.1 | 0.2 | $\dagger$ | $\dagger$ | $\dagger$ |
| Age when began at first institution |  |  |  |  |  |  |
| 18 years or younger | 87.0 | 5.1 | 3.6 | 1.2 | 1.2 | 2.0 |
| 19 years | 77.6 | 5.1 | 3.3 | 4.6 | 1.7 | 7.6 |
| 20-29 years | 85.3 | 3.4 | 1.4 | 1.6 | 2.9 | 5.4 |
| 30 years or older | 80.6 | 3.4 | 5.9 | 2.7 | 0.9 | 6.5 |
| Number of risk factors when began at first institution ${ }^{2}$ |  |  |  |  |  |  |
| None | 85.2 | 5.9 | 4.4 | 1.6 | 0.3 | 2.6 |
| One 85.9 | 3.7 | 1.8 | 2.3 | 2.2 | 4.0 |  |
| Two81.8 | 7.3 | 3.1 | 1.9 | 1.0 | 4.9 |  |
| Three or more | 84.5 | 2.5 | 3.4 | 1.9 | 2.8 | 4.9 |
| Socioeconomic status |  |  |  |  |  |  |
| Lowest quartile | 79.3 | 2.4 | 3.9 | 2.0 | 2.6 | 9.7 |
| Middle quartiles | 84.3 | 4.7 | 3.9 | 2.1 | 1.7 | 3.3 |
| Highest quartile | 89.2 | 4.9 | 2.3 | 1.4 | 0.7 | 1.6 |
| Number of jobs held during PSE |  |  |  |  |  |  |
| None | - | - | - | - | - | - |
| One 82.9 | 2.9 | 3.3 | 2.8 | 2.0 | 6.2 |  |
| Two82.8 | 4.3 | 3.0 | 2.1 | 3.5 | 4.4 |  |
| Three or more | 87.1 | 5.0 | 3.5 | 1.4 | 0.4 | 2.5 |
| Race-ethnicity of student |  |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - | - |
| Asian/Pacific Islander | 84.6 | 4.1 | 2.3 | 0.4 | 0 | 8.6 |
| Black, non-Hispanic | 72.4 | 6.2 | 3.5 | 4.4 | 2.3 | 11.3 |
| Hispanic | 80.1 | 4.5 | 6.7 | 4.9 | 2.0 | 1.8 |
| White, non-Hispanic | 87.3 | 4.2 | 3.0 | 1.3 | 1.3 | 2.9 |
| Level of last institution |  |  |  |  |  |  |
| 4 -year | 87.8 | 5.8 | 2.7 | 1.4 | 0.4 | 1.9 |
| 2-year | 85.0 | 2.8 | 3.5 | 2.2 | 1.8 | 4.6 |
| Less-than-2-year | 74.7 | 7.3 | 5.0 | 2.0 | 3.8 | 7.2 |
| Control of last institution |  |  |  |  |  |  |
| Public | 86.7 | 3.4 | 3.3 | 1.7 | 1.2 | 3.8 |
| Private, not-for-profit | 83.4 | 9.1 | 3.4 | 1.5 | 0.5 | 2.0 |
| Private, for-profit | 76.5 | 5.8 | 4.3 | 3.1 | 4.0 | 6.3 |

Table 17.6-Percentage distribution of 1989-90 beginning postsecondary students according to the number of months after leaving postsecondary education before obtaining first principal job, by selected demographic and institutional characteristics-Continued

|  | Less than 1 month | $\begin{gathered} 1-3 \\ \text { months } \end{gathered}$ | $\begin{gathered} 3-6 \\ \text { months } \end{gathered}$ | $\begin{gathered} 6-9 \\ \text { months } \end{gathered}$ | $\begin{gathered} 9-12 \\ \text { months } \\ \hline \end{gathered}$ | More than 12 months |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Degree working toward at last institution |  |  |  |  |  |  |
| None | 89.4 | 3.5 | 3.3 | 1.2 | 0.1 | 2.5 |
| Certificate | 79.0 | 5.4 | 3.0 | 1.9 | 3.0 | 7.8 |
| Associate's degree | 84.9 | 3.1 | 3.3 | 2.5 | 1.4 | 4.9 |
| Bachelor's degree | 86.9 | 5.7 | 3.5 | 1.7 | 0.8 | 1.4 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |  |
| Attained degree | 84.5 | 6.0 | 4.0 | 1.4 | 1.4 | 2.7 |
| No degree, enrolled | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ |
| No degree, not enrolled | 85.0 | 3.2 | 2.8 | 2.3 | 1.7 | 4.9 |
| Highest degree attained |  |  |  |  |  |  |
| None | 85.0 | 3.2 | 2.8 | 2.3 | 1.7 | 4.9 |
| Certificate | 76.0 | 6.3 | 5.6 | 1.8 | 3.4 | 6.9 |
| Associate's degree | 92.7 | 2.1 | 2.7 | 0.9 | 0.6 | 1.1 |
| Bachelor's degree | 87.3 | 7.5 | 3.3 | 1.3 | 0.2 | 0.4 |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Includes students who have not obtained their first principal job.
${ }^{2}$ Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.
${ }^{3}$ Postsecondary education.
NOTE: Does not include students who are still enrolled in postsecondary education.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 17.7—Percentage of 1989-90 beginning postsecondary students according to actions taken to obtain their most recent principal job as of spring 1994, by selected demographic and institutional characteristics

|  | Looked through want ads | Asked family, friends, or faculty | Asked for interview to determine opportunity | Went to campus placement office | Sent resume, submitted application |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 14.9 | 26.2 | 19.0 | 5.0 | 23.4 |
| Gender |  |  |  |  |  |
| Male 11.3 | 30.7 | 20.6 | 3.8 | 19.7 |  |
| Female | 18.0 | 22.2 | 17.6 | 6.0 | 26.7 |
| Academic year of last enrollment |  |  |  |  |  |
| 1989-90 | 13.1 | 32.1 | 18.6 | 1.9 | 21.4 |
| 1990-91 | 17.8 | 23.2 | 17.8 | 5.7 | 23.3 |
| 1991-92 | 16.2 | 22.7 | 19.4 | 3.1 | 26.9 |
| 1992-93 | 14.6 | 26.7 | 21.9 | 8.4 | 25.9 |
| 1993-94 | 13.4 | 25.5 | 16.7 | 5.8 | 18.9 |
| Age when began at first institution |  |  |  |  |  |
| 18 years or younger | 15.0 | 28.4 | 19.7 | 6.3 | 23.5 |
| 19 years | 17.8 | 26.9 | 21.3 | 4.1 | 28.2 |
| 20-29 years | 15.3 | 24.3 | 20.0 | 3.3 | 19.9 |
| 30 years or older | 11.2 | 21.6 | 11.5 | 1.6 | 24.1 |
| Number of risk factors when began at first institution |  |  |  |  |  |
| None 16.3 | 29.1 | 18.6 | 6.5 | 23.6 |  |
| One17.2 | 27.8 | 22.5 | 6.5 | 28.0 |  |
| Twol 1.5 | 27.2 | 18.2 | 2.7 | 22.4 |  |
| Three or more | 13.2 | 22.4 | 17.3 | 2.6 | 20.5 |
| Socioeconomic status |  |  |  |  |  |
| Lowest quartile | 17.6 | 25.1 | 16.2 | 2.9 | 25.1 |
| Middle quartiles | 13.0 | 26.5 | 18.9 | 4.3 | 22.6 |
| Highest quartile | 16.0 | 26.3 | 20.6 | 6.9 | 23.6 |
| Number of jobs held during PSE |  |  |  |  |  |
| None - | - | - | - | - |  |
| One8.9 | 25.9 | 15.4 | 3.2 | 23.7 |  |
| Twol 3.0 | 26.4 | 17.9 | 4.7 | 23.8 |  |
| Three or more | 17.8 | 26.2 | 20.8 | 5.7 | 23.1 |
| Race-ethnicity of student |  |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - | - |
| Asian/Pacific Islander | 20.2 | 26.3 | 15.9 | 11.3 | 10.3 |
| Black, non-Hispanic | 15.9 | 23.6 | 15.0 | 3.3 | 29.3 |
| Hispanic | 15.1 | 26.5 | 24.9 | 9.4 | 27.1 |
| White, non-Hispanic | 14.5 | 26.4 | 19.0 | 4.6 | 22.8 |
| Level of last institution |  |  |  |  |  |
| 4 -year | 13.9 | 27.5 | 19.4 | 6.6 | 26.4 |
| 2-year | 14.7 | 26.3 | 19.7 | 3.3 | 21.2 |
| Less-than-2-year | 19.0 | 25.1 | 16.3 | 5.9 | 23.7 |

Table 17.7—Percentage of 1989-90 beginning postsecondary students according to actions taken to obtain their most recent principal job as of spring 1994, by selected demographic and institutional characteristics-Continued

|  | Looked through want ads | Asked family, friends, or faculty | Asked for interview to determine opportunity | Went to campus placement office | Sent resume, submitted application |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Control of last institution |  |  |  |  |  |
| Public | 14.8 | 26.6 | 19.5 | 3.7 | 22.3 |
| Private, not-for-profit | 14.3 | 27.4 | 18.2 | 8.9 | 27.4 |
| Private, for-profit | 16.8 | 25.5 | 18.4 | 6.5 | 24.6 |
| Degree working toward at last institution |  |  |  |  |  |
| None 15.8 | 24.1 | 21.8 | 2.4 | 21.7 |  |
| Certificate | 15.8 | 21.6 | 17.7 | 4.4 | 25.4 |
| Associate's degree | 15.6 | 26.7 | 18.3 | 4.0 | 21.8 |
| Bachelor's degree | 14.4 | 29.6 | 20.6 | 5.8 | 24.1 |
| Persistence and attainment as of spring 1994 |  |  |  |  |  |
| Attained degree | 15.4 | 25.0 | 18.7 | 9.0 | 24.2 |
| No degree, enrolled | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ | $\dagger$ |
| No degree, not enrolled | 14.5 | 27.8 | 19.2 | 1.3 | 22.8 |
| Highest degree attained |  |  |  |  |  |
| None 14.5 | 27.8 | 19.2 | 1.3 | 22.8 |  |
| Certificate | 18.1 | 24.0 | 16.4 | 6.7 | 22.3 |
| Associate's degree | 15.1 | 23.3 | 19.2 | 9.1 | 22.0 |
| Bachelor's degree | 13.2 | 26.8 | 20.7 | 11.2 | 27.2 |

-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Risk factors include delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.
${ }^{2}$ Postsecondary education.
NOTE: Does not include students who are still enrolled or have not obtained a principal job as of spring 1994.
SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Second Follow-up (BPS:90/94), Data Analysis System.

Table 17.8-Percentage of 1989-90 beginning postsecondary students according to relationship between their most recent principal job and their postsecondary education, by selected demographic and institutional characteristics

|  | Able to apply skills learned in PSE | Could have obtained job without education | Job different from education and training | Job <br> used <br> tools and <br> equipment <br> trained <br> to use |
| :---: | :---: | :---: | :---: | :---: |
| Total | 77.0 | 43.1 | 35.2 | 85.2 |
| Gender |  |  |  |  |
| Male | 73.3 | 47.0 | 45.4 | 79.1 |
| Female | 79.8 | 40.1 | 27.5 | 89.8 |
| Academic year of last enrollment |  |  |  |  |
| 1989-90 | 73.8 | 53.5 | 36.3 | 85.1 |
| 1990-91 | 78.1 | 44.8 | 37.4 | 83.6 |
| 1991-92 | 73.2 | 43.5 | 30.0 | 79.5 |
| 1992-93 | 79.5 | 30.4 | 39.1 | 90.7 |
| 1993-94 | 79.8 | 48.0 | 29.7 | 83.8 |
| Age when began at first institution |  |  |  |  |
| 18 years or younger | 73.9 | 42.1 | 40.1 | 83.9 |
| 19 years | 84.7 | 44.0 | 34.0 | 84.2 |
| 20-29 years | 74.4 | 47.1 | 32.8 | 85.5 |
| 30 years or older | 84.1 | 40.8 | 20.7 | 88.9 |
| Number of risk factors when began at first institution |  |  |  |  |
| None | 74.1 | 37.5 | 43.6 | 84.4 |
| One 73.2 | 49.2 | 36.5 | 82.7 |  |
| Two86.7 | 37.4 | 23.6 | 86.8 |  |
| Three or more | 78.3 | 48.0 | 28.3 | 86.5 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 80.4 | 49.8 | 27.8 | 83.5 |
| Middle quartiles | 77.2 | 42.8 | 33.1 | 84.8 |
| Highest quartile | 74.9 | 40.0 | 41.8 | 86.6 |
| Number of jobs held during PSENone _ _ _ _ |  |  |  |  |
|  |  |  |  |  |
| One 79.3 | 54.8 | 33.3 | 84.3 |  |
| Two79.5 | 40.5 | 32.9 | 84.9 |  |
| Three or more | 74.9 | 39.1 | 37.1 | 85.8 |
| Race-ethnicity of student |  |  |  |  |
| American Indian/Alaskan Native | - | - | - | - |
| Asian/Pacific Islander | 84.4 | 40.9 | 28.5 | 95.2 |
| Black, non-Hispanic | 70.7 | 53.8 | 28.1 | 83.3 |
| Hispanic | 83.5 | 36.7 | 36.9 | 83.8 |
| White, non-Hispanic | 76.7 | 42.6 | 36.1 | 85.2 |
| Level of last institution |  |  |  |  |
| 4 -year | 72.4 | 40.0 | 41.8 | 85.0 |
| 2-year | 76.6 | 47.9 | 32.3 | 83.0 |
| Less-than-2-year | 84.1 | 38.8 | 30.9 | 90.1 |

Table 17.8—Percentage of 1989-90 beginning postsecondary students according to relationship between their most recent principal job and their postsecondary education, by selected demographic and institutional characteristics-Continued
$\left.\begin{array}{lcccc}\hline & & & \\ & \begin{array}{c}\text { Able to } \\ \text { apply } \\ \text { skills } \\ \text { learned } \\ \text { in PSE }\end{array} & \begin{array}{c}\text { Could } \\ \text { have } \\ \text { obtained } \\ \text { job } \\ \text { without } \\ \text { education }\end{array} & \begin{array}{c}\text { Job } \\ \text { different } \\ \text { from } \\ \text { education }\end{array} & \begin{array}{c}\text { Job } \\ \text { and } \\ \text { usaining }\end{array} \\ \text { tools and } \\ \text { equipment } \\ \text { trained } \\ \text { to use }\end{array}\right]$
-Too few cases for a reliable estimate.
$\dagger$ Not applicable.
${ }^{1}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, part time attendance, and working full time while enrolled.
${ }^{2}$ Postsecondary education.
NOTE: Does not include students who are still enrolled or have not obtained a principal job as of spring 1994.
SOURCE:U.S.Department of Education,National CenterforEducation Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

## Appendix A

## Persistence and Attainment Variables

The persistence and attainment variables used a variety of periods of analysis and each period of analysis utilized a different referent base (institution/degree attempted). Specifically, the following persistence and attainment variables were created:

- Overall persistence and attainment through the first degree (if any) or last enrollment (PERACUM)
- Persistence toward postsecondary awards (PERAAA, PERABA, PERACT)
- Persistence and attainment relative to the institution with the first, longest, and last continuous spell of enrollment (PERAFIRS, PERALONG, PERALAST)
- Persistence and attainment by academic year (PERA8990, PERA9091, PERA9192, PERA9293, PERA9394)

The variation in the referent institution or degree attempted which occurred among these methods is critical, because it resulted in different classification on the factors used to define persistence and attainment patterns. These factors included:

- present status-whether students had attained a degree or certificate, or if they did not attain a degree whether they are still working towards a degree;
- transfer-whether students had changed institutions permanently;
- continuity of enrollment-whether or not students had been continuously enrolled without a break of more than 4 months.

Attainment was given priority in the classification schemes. Students who expected to receive a degree by summer 1994 were classified as attainers if they were interviewed prior to having received a degree. Second follow-up interviews began in late March 1994.

Students were classified as transfers in these variables only if they transferred before receiving a degree during the particular period of analysis. Students who were enrolled in more than one institution, but did not permanently leave the referent institution, were not classified as transfers. Excluded from the definition of transfer were those students taking courses at two institutions simultaneously, attending summer school at a different institution, or attending a second institution temporarily and then returning to the referent institution.

The decision rules for creating the four major types of persistence and attainment variables used either in the essay or in the compendium tables of this report are described below.

## I. Overall persistence and attainment through the first degree (if any) or last enrollment (PERACUM)

Overall persistence and attainment was examined for the entire sample by tracing students' persistence paths in the postsecondary education system from initial enrollment in the NPSAS institution until attainment of first degree (if any) or last enrollment as of spring 1994. For all students, status on three factors determined their persistence and attainment pattern. These were:
attainment/enrollment-attainment of first degree was given priority. If students had not attained a degree their enrollment status was examined. Students were defined as enrolled at the time of follow-up if they were still enrolled during the spring of 1994.
transfer-students were defined as having transferred if they left one postsecondary institution before attaining a degree and enrolled at a different postsecondary institution without returning to the first institution.
continuity of enrollment-students were considered continuously enrolled if they did not have any period of more than 4 months of nonenrollment at any postsecondary institution.

The 12 outcome categories of PERACUM were aggregated into a variety of combinations to creat the categories discussed in the first part of the essay, including the following:

- Overall persistence and attainment (table 2);
- Attainment and retention at the first institution (table 3);
- Overall persistence and attainment including transfer status (table 4);
- Transfer status and enrollment continuity (tables 13 and 14).

The specific combination of categories used in each of these is described in the glossary, appendix B, in the section on Persistence and Attainment Patterns.

The flow chart on the following page illustrates the sequence of questions that determined a student's classification on the overall persistence and attainment through the first degree variable.

Figure A1—Overall persistence and attainment through the first degree

*Percentage of 1989-90 beginning postsecondary students in each category as of spring 1994.

## II. Persistence toward and attainment of postsecondary awards

 (PERAAA, PERABA, PERACT)The persistence and attainment patterns of students seeking vocational certificates, associate's degrees, and bachelor's degrees were examined separately. Students were categorized on the specific degree variable if they reportedver working toward the degree, therefore some students were classified on more than one of these variables.

Persistence toward and attainment of each degree was examined by tracing students' persistence paths in the postsecondary education system from the institution where they began working toward the specific postsecondary award until follow-up in 1994. For all students, status on three factors determined their persistence and attainment pattern. These were:
attainment/enrollment-attainment of the degree was given first priority. If students had not attained a degree their enrollment status was examined. Students were defined as enrolled at the time of follow-up if they were still enrolled toward the same degree during the spring of 1994.
transfer-students were defined as having transferred if they left one postsecondary institution and enrolled at a different postsecondary institution without returning to that institution.
continuity of enrollment-students were considered continuously enrolled if they did not have any period of more than 4 months of nonenrollment towards the degree at any postsecondary institution.

If students changed the degreethey reported working toward they were classified as having done so either at the same institution or a different institution. Students who changed their degree objective were then reclassified into PERAAA, PERABA, or PERACT according to the new objective. Finally, students who reported having attained the degree, but had no enrollment history toward the specific degree, were classified as attained path unknown.

The flow chart on the following page illustrates the sequence of questions that determined a student's classification on the three persistence patterns toward and attainment of postsecondary award variables (certificate, associate's, bachelor's).

Figure A2-Persistence toward and attainment of postsecondary awards


## III. Persistence and attainment in relation to spells of continuous enrollment (PERAFIRS, PERALONG, PERALAST)

The persistence and attainment patterns of the sample were examined in relation to the institution they attended first (always the NPSAS institution), longest, and last by examining spells of continuous enrollment at these institutions. Spells were defined by the first, longest, and last period of continuous enrollment. Continuous enrollment was defined as no period of nonenrollment of more than 4 months at the referent institution.

The enrollment spell outcomes identified students' status relative to the referent institution at the end of the spell, taking future activity into account. The central issue was to determine whether students left the referent institution, and if so, how. The specific spell outcomes appear below:
attained-attained degree or certificate at the referent institution.
still enrolled-continuously enrolled at referent institution and still enrolled at follow-up.
same-year transfer*-left the referent institution and enrolled at a different institution during the same year.
subsequent transfer*-enrolled throughout the year at the referent institution but enrolled at a different institution the following fall, or left referent institution during the year, and enrolled at a different institution after the following summer or fall.
stopout*-left the referent institution during an academic year or did not return following fall, $t$ enroll at any other institution, and later returned to the referent institution.
left without return-enrolled continuously at referent institution, left the institution, did not attain, with no subsequent return or enrollment elsewhere.
*Note that for the last institution attended, since subsequent enrollment was not observed, the possible outcomes were limited to: attained, still enrolled, and left without return.

The flow chart on the following page illustrates the sequence of questions that determined a student's classification on the three persistence and attainment patterns in relation to spells of continuous enrollment variables.

Figure A3-Persistence and attainment in relation to spells of continuous enrollment


For the first continuous spell of enrollment, the choice of the referent institution was predetermined to be the NPSAS institution. However, because many students attended more than one institution during postsecondary education, it was necessary to establish a set of decision rules for identifying the longest and last referent institutions. These referent institutions were identified as follows:
a. Institution attended longest-where more than one institution was attended for the same length of time, the following hierarchical decision rules determined the referent institution:

1) The institution where the student attained a credential;
2) The institution with the greatest enrollment intensity, where: full time $>$ half time $>$ less than half time;
3) The highest level institution, where: 4-year doctoral > 4-year non-doctoral > 2-3 year > less than 2-year.
b. Institution attended last-where the student attended more than one institution during the last spell of continuous enrollment, the following hierarchical decision rules determined the referent institution:
4) The institution where the student attained a credential;
5) The institution with the greatest enrollment intensity, where: full time $>$ half time $>$ less than half time;
6) The highest level institution, where: 4-year doctoral >4-year non-doctoral >2-3 year > less than 2-year.
7) The institution entered last.

## IV. Academic year persistence and attainment

(PERA8990, PERA9091, PERA9192, PERA9293, PERA9394)

## A. General

Persistence and attainment were examined for each academic year relative to the institution attended in that year (the referent institution for that year). For each of the 5 academic years in BPS:90/94, variables identify students' status relative to the referent institution at the end of the academic year, taking future activity into account.

The central issue was to determine whether students left the referent institution, and if so, how (attained a certificate or degree from the institution; stopped out; transferred to another institution; or dropped out). The specific academic year outcomes appear below:
attained-attained degree or certificate at the referent institution during the AYyy.
persister*—enrolled at the referent institution throughout the year and returned the following summer or fall.
same-year transfer-left the referent institution and enrolled at a different institution during the same year.
subsequent transfer*-enrolled throughout the year at the referent institution but enrolled at a different institution the following fall, or left referent institution during the year, and enrolled at a different institution after the following summer or fall.
stopout-left the referent institution during the year or did not return the following summer or fall, did not enroll at any other institution, and later returned to the referent institution.
left without return-enrolled for some or all of the year at referent institution, did not attain, with no subsequent return or enrollment elsewhere.
not enrolled-no enrollment in AYyy.
*Note that for 1993-94, since subsequent enrollment was not observed, the possible outcomes were limited to: attained, still enrolled (replaced persister), stopout, same-year transfer, delayed transfer, left without return, and not enrolled.

The flow chart on the following page illustrates the sequence of questions that determined a student's classification on the academic year persistence and attainment variables.

[^24]Figure A4-Academic year persistence and attainment


If a student attended more than one institution in a year, it was necessary to establish a set of decision rules for identifying the referent institution; that is, the institution where a student's end-of-year status would be characterized on the academic year outcome variables. The referent institution for each academic year was identified as follows:
a. Special case for 1989-90:

- The NPSAS institution was the referent institution.
b. Sequential precedence relations. For students classified as persisters or transfers in 1989-90 through 1992-93, the choice of referent institution for the subsequent year was predetermined.
- If a student was classified as a persister in a given year (meaning the student returned to the same institution the following fall), the same institution was the referent institution for the following year.
- Similarly, if a student transferred, the institution transferred to became the referent institution for the following year.
c. The remaining cases of multiple attendance requiring arbitration were those for academic years 1990-91 through 1993-94 in which a student's prior year classification was attained, not enrolled, or dropout. In these cases, the following hierarchical decision rules determined the referent institution:

1) Student's designation of principal institution for that year;
2) Any institution where the student attained a credential that year;
3) Institution attended the longest in that year;
4) Institution with the greatest enrollment intensity, where: full time $>$ half time $>$ less than half time;
5) Level of institution, where: 4-year doctoral > 4-year non-doctoral $>2-3$ year $>$ less than 2-year.

## B. Persistence toward the bachelor's degree

After constructing this set of academic year persistence variables for all students, a second set of variables was created for tracing persistence toward the bachelor's degreeThese variables shifted the emphasis from persistence within an institution to persistence toward the bachelor's degree in the 4 -year sector. Consequently, certain end-of-year outcomes were redefined. Students identified as transfers on the academic year variables were broken into two groups: those who transferred to another 4year institution without any break in continuity, and those who transferred to a less-than-4-year institution or who transferred to a 4 -year institution following an interruption in enrollment. Those who continued in the 4-year sector without interruption were classified among persisters. Associate's degree completers were also separated into two groups: those who enrolled for a bachelor's degree at a 4year institution the following year, and those who did not. Associate's degree completers who went on to a 4-year institution in the next year were classified among persisters.

[^25]
## Appendix B

## Glossary

This glossary describes the variables used in this report, all of which come from the BPS:90/94 Data Analysis System (DAS) (see appendix C for a description of the DAS). These variables were either items taken directly from the 1990 National Postsecondary Student Aid Survey (NPSAS:90) which served as the base year for BPS, from the first BPS follow-up in 1992 or the second follow-up in 1994; or they were derived by combining one or more items in these surveys. For all variables in this glossary, the variable label is followed by the variable name contained in the DAS.

Variables are listed in the general order in which they are introduced in the report and related items are grouped together (i.e., demographic characteristics, institutional characteristics, etc.).

## General Definitions

In the BPS survey, "beginning postsecondary students" included only students who enrolled in postsecondary education for the very first time in 1989-90, not all students who were in their first year of a postsecondary program. Thus, an individual who started postsecondary education earlier, left, and then returned was not included in BPS. Throughout this report the reference to "beginning postsecondary students" or "first-time students" refers to only those who enrolled in postsecondary education for the first time in the 1989-90 academic year.

It is important to remember that while BPS participants were all students in the 1989-90 academic year, they may or may not have been enrolled in subsequent years. For simplicity and ease of reading, this glossary refers to survey participants as "students." However, this term should always be interpreted as "1989-90 beginning postsecondary students."

## Appendix B Glossary Index

Persistence and attainment patterns ..... 5
Overall persistence and attainment ..... 5
Overall persistence and attainment/student persistence in postsecondary education ..... 5
Attainment and retention at the first ..... inst ..... ituti ..... on5
Overall persistence and attainment- including transfer status ..... 6
Persistence and attainment outcomes amongbachelor's degree seekers at 4-year institutions7
Date of bachelor's degree receipt ..... 7
Persistence and attainment during the academic year ..... 8
Departure from the persistence track ..... 9
First type of departure from the persistence track ..... 9
Timing of departure from the persistence track ..... 9
Persistence and attainment during spells of continuous enrollment ..... 10
Persistence and attainment towards degree ..... 10
Academic year of last enrollment ..... 11
Number of months enrolled ..... 12
Intensity of enrollment ..... 12
Attendance status ..... 13
Number of institutions attended ..... 13
Transfer status and enrollment continuity through first degree ..... 13

Enrollment continuity through
first degree ..... 14
Transfer before first degree ..... 14
Transferred before or after first degree ..... 15
Institutional Characteristics ..... 15
Level of institution ..... 15
Control of institution ..... 16
Level and control of institution ..... 16
Level and control of first institution ..... 17
Ever attend a public 2-year institution ..... 18
Ever attend a public or private, not-for-profit 4-year institution ..... 18
Ever attend a private, for-profit institution ..... 18
Control of transfer institutions ..... 18
Degree Characteristics ..... 18
Degree working toward ..... 18
Degrees attempted at any time ..... 19
Number of degrees attempted ..... 19
Type of degree attempted ..... 19
Type of degree attained ..... 20
Type of degree(s) attained ..... 20
Student Characteristics ..... 21
Number of children ..... 21
Single parent status ..... 21
Gender ..... 22
Race-ethnicity of student ..... 22
Age ..... 22
Socioeconomic status ..... 23
Marital status ..... 23
Type of high school diploma ..... 23
Parental education ..... 24
Dependency status in 1989-90 ..... 24
Dependency status ..... 25
Income and dependency status in 1989-90 ..... 25
Number of risk factors ..... 25
Delayed postsecondary enrollment ..... 26
Worked full time while enrolled ..... 26
Attendance status ..... 27
Social, Academic, and Work Experiences ..... 27
Index of social integration in 1989-90 ..... 27
Index of academic integration in 1989-90 ..... 27
Satisfaction with first institution in 1989-90 ..... 28
Local residence in 1989-90 ..... 28
Educational aspirations in 1989-90 ..... 28
Average hours worked while enrolled in 1989-90 ..... 29
Grade point average in 1989-90 ..... 29
Number of types of remedial instruction received ..... 30
Education financing characteristics ..... 30
Total costs in 1989-90 ..... 30
Total aid amount in 1989-90 ..... 30
Total federal aid amount 1989-90 ..... 31
Total loan amount in 1989-90 ..... 31
Total grant amount in 1989-90 ..... 32
Aid package at first institution in 1989-90 ..... 32
Financial aid receipt during the academic year ..... 32
Any financial aid ..... 33
Grants ..... 33
Loans ..... 33
Employer aid ..... 34
Spouse or other relative financial assistance ..... 34
Parents' financial contribution ..... 34
Personal savings ..... 34
Loan from parents ..... 35
Education borrowing activities ..... 35
Borrowed for undergraduate education ..... 35
Owe on postsecondary loans ..... 35
Amount borrowed for postsecondary education ..... 35
Amount owed on postsecondary loans ..... 36
Currently repaying educational loans ..... 36
Paying by self ..... 36
Average monthly loan payment ..... 36
Marital status and family formation ..... 37
Marital status in 1994 ..... 37
Timing of marriage ..... 37
Current number of children ..... 37
Timing of first child ..... 37
Age in 1994 ..... 38
Graduate school and further education activities ..... 38
Applied or intended to apply to graduate school ..... 38
Attended graduate school ..... 38
Type of licensing exam taken ..... 38
Civic participation and voting activities ..... 38
Participate in volunteer/community service in last 2 years ..... 38
Currently doing volunteer work in 1994 ..... 39
Types of volunteer/community service ..... org
ani
zati
ons39
Voter registration status ..... 39
Voting activities ..... 39
Employment experiences ..... 39
Ever work while enrolled ..... 39
Number of jobs held during PSE ..... 39
Co-op/apprentice job ..... 40
On-campus job ..... 40
Job related to studies ..... 40
Simultaneous jobs ..... 41
Most recent job ..... 41
Primary occupation in 1993 ..... 41
Satisfaction with most recent job ..... 41
Unemployment experiences ..... 42
Ever unemployed ..... 42
Ever receive unemployment compensation ..... 42
Total duration of unemployment in weeks ..... 42
Unemployed during calendar year ..... 42
Most recent principal job ..... 42
Months before obtained first principal job after PSE ..... 42
Activities to obtain most recent principal job ..... 43
Relationship between most recent principal job and education ..... 43

## Persistence and attainment patterns

Overall persistence and attainment
PERACUM

Aggregated version of overall persistence and attainment variable.

Attained or still enrolled

No degree, not enrolled

Student had attained a degree or was still enrolled as of spring of 1994. Includes students coded as "internal" as well as "transfer" "attained" "non-continuous attained," "persisters," and "non-continuous still enrolled."

Student had not attained a degree and was no longer enrolled as of spring 1994. Includes students coded as "internal" as well as "transfer" "non-continuous no longer enrolled" and "left without return."

For complete description see appendix A.
Overall persistence and attainment/student persistence in
PERACUM postsecondary education

Aggregated version of overall persistence and attainment variable.

| Attained degree | Student had attained a degree as of spring 1994. <br> Includes students coded as "internal" as well as <br> "transfer" "attained" and "non-continuous attained." |
| :--- | :--- |
| No degree, enrolled | Student had not attained a degree and was still <br> enrolled as of spring 1994. Includes students coded <br> as both "internal" as well as "transfer" "persisters" <br> and "non-continuous still enrolled." |
| No degree, not enrolled | Student had not attained a degree and was no longer <br> enrolled as of spring 1994. Includes students coded <br> as "internal" as well as "transfer" "non-continuous <br> no longer enrolled" and "left without return." |

For complete description see appendix A.
Attainment and retention at the first institution
PERACUM

Aggregated version of overall persistence and attainment variable.
Attained degree at the first Student had attained a degree at the first
institution

No degree, enrolled at the first institution

No degree, left PSE from the first institution
institution as of spring 1994. Includes students coded as "internal attained" and "non-continuous internal attained."

Student had not attained a degree at the first institution and was enrolled at the first institution in spring 1994. Includes students coded as "internal persisters" and "non-continuous still enrolled."

Student had not attained a degree at the first institution, was no longer enrolled at the first institution, and had not enrolled anywhere else as of spring 1994. Include students coded as "internal non-continuous no longer enrolled" and "internal left without return."

Student had not attained a degree at the first institution and had transferred from the first institution as of spring 1994. Includes all students coded as "transfers."

For complete description see appendix A.

Aggregated version of overall persistence and attainment variable.

Did not transfer
Attained degree at first institution

No degree, enrolled at first institution

No degree, left PSE from
first institution

Student had attained a degree at the first institution as of spring 1994. Includes students coded as "internal attained" and "internal non-continuous attained."

Student had not attained at the first institution and was enrolled at the first institution in spring 1994. Includes students coded as "internal persisters" and "internal non-continuous still enrolled."

Student had not attained a degree or transferred from the first institution and was no longer enrolled in postsecondary education in spring 1994. Includes students coded as "internal noncontinuous no longer enrolled" and "internal left without return."

Transferred from first institution
Attained degree elsewhere

No degree, enrolled elsewhere

No degree, left PSE after transfer

Student had attained a degree at an institution after transfer as of spring 1994. Includes students coded as "transfer attained" and "transfer non-continuous attained."

Student had not attained a degree and was enrolled at an institution after transfer as of spring 1994. Students coded as "transfer persisters" and "transfer non-continuous still enrolled."

Student had not attained a degree at an institution after transfer and was no longer enrolled in postsecondary education as of spring 1994. Includes students coded as "transfer noncontinuous non longer enrolled" and "transfer left without return."

For complete description see appendix A.
Persistence and attainment outcomes among bachelor's degree seekers at 4-year institutions

Attained bachelor's degree Regardless of prior attainment, student had attained a bachelor's degree as of spring 1994.

Still enrolled at
4-year institution
Attained associate's degree, not enrolled at 4-year institution

Attained certificate, not enrolled at a 4 -year institution

Regardless of prior attainment, student was still enrolled at a 4-year institution as of spring 1994.

Student had attained an associate's degree and was not enrolled at a 4-year institution as of spring 1994.

Student had attained a certificate and was not enrolled at 4-year institution as of spring 1994.

No degree, not enrolled at 4-year institution

Student had not attained any degree and was not a 4-year institution as of spring 1994.

## Date of bachelor's degree receipt

No degree

By June 1993
Student had attained a bachelor's degree by June 1993.

By July 1993-June 1994
Student had attained a bachelor's degree at some time between July 1993-June 1994.

| 1989-90 academic year | PER8990X* |
| :--- | :--- |
| 1990-91 academic year | PER9091X |
| 1991-92 academic year | PER9192X |
| 1992-93 academic year | PER9293X |
| 1993-94 academic year | PER9394R** |

Attained Cert. in AYyy | Student had attained a certificate at the referent |
| :--- |
| institution during the academic year. |

Attained AA in AYyy | Student had attained an associate's degree at the |
| :--- |
| referent institution during the academic year. |

Attained BA in AYyy | Student had attained a bachelor's degree at the referent |
| :--- |
| institution during the academic year. |

Persisted into AYyy+1 | Student was still enrolled at the referent institution |
| :--- |
| during the fall of the following academic year, had |
| been working towards an associate's degree during |
| the academic year but changed to working towards a |
| bachelor's degree during the following academic |
| year, or transferred without a break in enrollment |
| continuity to a similar or higher level institution. |

Downward or delayed transfer | Student transferred to a lower level institution |
| :--- |
| in AYyy |
| in enrollment continuity. |

Stopout in AYyy mithe academic year or transferred with a break

[^26]Indicates whether the student departed from the persistence track before the first degree (if any) or last enrollment. Departure is defined as stopping out, a break in continuity of enrollment at the referent institution; downward or delayed transfer, transfers to a lower level institution or transfers involving a break in the continuity of enrollment; leaving without return, leaving the referent institution and not re-enrolling as of spring 1994.

Did not leave

Left the persistence track

Before first degree (if any) or last enrollment the student did not depart from the persistence track.

Before first degree (if any) or last enrollment the student departed from the persistence track.

First type of departure from the persistence track

## LEFTPT

Downward or delayed transfer

Stopout

Left without return

Before first degree (if any) or last enrollment student transferred to a lower level institution or transferred with a break in enrollment continuity.

Before first degree (if any) or last enrollment student left the referent institution and re-enrolled after a period of more than 4 months.

Before first degree (if any) or last enrollment student left the referent institution and had not reenrolled in postsecondary education as of spring 1994.

## Timing of departure from the persistence track

## LEFTYR

Academic year the student first departed from the persistence track.

| Did not leave | Student did not depart from the persistence track. |
| :--- | :--- |
| 1989-90 departure | Student's first departure from the persistence track <br> occurred during the 1989-90 academic year. |
| 1990-91 departure | Student's first departure from the persistence track <br> occurred during the 1990-91 academic year. |
| 1991-92 departure | Student's first departure from the persistence track <br> occurred during the 1991-92 academic year. |
| $1992-93$ departure | Student's first departure from the persistence track <br> occurred during the 1992-93 academic year. |
| $1993-94$ departure | Student's first departure from the persistence track <br> occurred during the 1993-94 academic year. |

## Persistence and attainment during spells of continuous enrollment

Persistence and attainment during the first, longest, or last spell of continuous enrollment.
Derived by tracing the student's persistence path during the continuous spell of enrollment at the first, longest, or last institution attended.

First spell of continuous enrollment
Longest spell of continuous enrollment
Last spell of continuous enrollment

PERAFIRS
PERALONG
PERALAST*

Attained degree at end of spell

Still enrolled in spring 1994

Spell ended with transfer

Spell ended with stopout

Left without return at the end of spell

The spell of continuous enrollment ended when the student attained a degree at the referent institution.

The student was still enrolled at the referent institution at the end of the spell of continuous enrollment.

The spell of continuous enrollment ended when the student transferred from the referent institution.

The spell of continuous enrollment ended when the student stopped out from the referent institution.

The spell of continuous enrollment ended when student left the referent institution and did not reenroll in postsecondary education.

## Persistence and attainment towards degree

Aggregated version of persistence and attainment toward the degree variable.

| Associate's degree | PERAAA |
| :--- | :--- |
| Bachelor's degree | PERABA |
| Certificate | PERACT |

[^27]as well as "transfer" "persisters" and "noncontinuous still enrolled."

No degree, not enrolled

Changed degree working toward

Student had not attained the degree working toward and was no longer enrolled in postsecondary education. Includes students coded as "internal" as well as "transfer" "non-continuous no longer enrolled" and "left without return."

Student had not attained the degree working toward, was no longer working toward this degree, but had enrolled toward a different degree objective. Includes students coded as "internal" as well as "transfer" "changed degree working toward." Students in this category are reclassified according to the new degree objective in either PERAAA, PERABA, or PERACT.

For complete description see appendix A.

## Academic year of last enrollment

AY 1989-90

AY 1990-91

AY 1991-92

AY 1992-93

AY 1993-94

## LASTENR

Student was last enrolled during the 1989-90 academic year.

Student was last enrolled during the 1990-91 academic year.

Student was last enrolled during the 1991-92 academic year.

Student was last enrolled during the 1992-93 academic year.

Student was last enrolled during the 1993-94 academic year.

## Number of months enrolled

Count of number of months enrolled during the period of analysis.
Through first degree (if any) or last enrollment*
NUMMCUM
During first spell of continuous enrollment at the first institution NUMMFIRS

Less than 12 months
12-24 months

25-36 months
37-48 months
More than 48 months

Student was enrolled for less than 12 months.
Student was enrolled for 12-24 months.

Student was enrolled for 25-36 months.
Students was enrolled for 37-48 months.
Student was enrolled for more than 48 months.
*Variable also used as an average.

## Intensity of enrollment

Intensity of enrollment. Calculated as the percentage of months enrolled full time during the period of analysis.

Through first degree (if any) or last enrollment During first spell of continuous enrollment During longest spell of continuous enrollment During last spell of continuous enrollment During the 1989-90 academic year During the 1990-91 academic year During the 1991-92 academic year During the 1992-93 academic year During the 1993-94 academic year

ATSTCUM ATSTFIRS ATSTLONG ATSTLAST ATST8990 ATST9091 ATST9192 ATST9293
ATST9394

Exclusively part time
Mixed

Exclusively full time

The student was not enrolled full time during any month.
The student was enrolled full time between 1-99 percent of months.

The student was enrolled full time during all months.

## Attendance status

| When began at first institution | ATT8990 |
| :--- | :--- |
| When began working towards associate's degree | ATTAA |
| When began working toward bachelor's degree | ATTBA |
| When began working towards certificate | ATTCT |
| When began first spell | ATT8990 |
| When began longest spell | ATTLONG |
| When began last spell | ATTLAST |

Part time

Full time

Student attended part time during the first month enrolled.

Student attended full time during the first month enrolled.

## Number of institutions attended

Count of number of institutions attended during the period of analysis. Includes simultaneous or temporary enrollment at more than one institution as well as transfers.

Through first degree (if any) or last enrollment
NINSCUM
Throughout postsecondary education
NINSTOT

One Student attended one postsecondary institution.

More than one
Student attended more than one postsecondary institution.

Positive values on this variable are also used to identify the percentage of students who ever attended more than one institution.

Transfer status and enrollment continuity through first degree
PERACUM
Recoded version of overall persistence and attainment through first degree variable (PERACUM) to aggregate student persistence and attainment outcomes based on transfer status and enrollment continuity. Indicates transfer and enrollment continuity before first degree (if any) or last enrollment. Students were classified as transfers only if they changed institutions permanently without returning to the original institution.

Did not transfer, continuously enrolled

Before first degree (if any) or last enrollment, student did not transfer and did not break enrollment continuity for more than 4 months. Includes students categorized as "internal persisters" and "internal left without return."

Did not transfer, not continuously enrolled

Transferred, continuously enrolled

Transferred, not continuously enrolled

Before first degree (if any) or last enrollment, student did not transfer and broke enrollment continuity for more than 4 months. Includes students categorized as "internal stopouts."

Before first degree (if any) or last enrollment, student transferred and did not break enrollment continuity for more than 4 months. Includes students categorized as "transfer persisters" and "transfer left without return."

Before first degree (if any) or last enrollment student transferred and broke enrollment continuity for more than 4 months. Includes students categorized as "transfer stopouts."

For complete description, see appendix A.
Enrollment continuity through first degree

## STOPOUT

Recoded version of overall persistence and attainment through first degree variable. (PERACUM). Aggregates student persistence and attainment outcomes based on enrollment continuity. Indicates enrollment continuity through first degree (if any) or last enrollment.

Continuous

Not continuous

Before first degree (if any) or the last enrollment, the student did not break continuity of enrollment with a period of non-enrollment of more than 4 months. Includes students coded as "internal" as well as "transfer" "attained," "persisters," and "left without return."

Before first degree (if any) or the last enrollment, the student broke continuity of enrollment with a period of non-enrollment of more than 4 months. Includes students categorized as "internal" as well as "transfer" "stopout attained," "stopout still enrolled," and "stopout-no longer enrolled."

For complete description see appendix A.

## Transfer status before first degree

## PERACUM

Recoded version of overall persistence and attainment before first degree (if any) or last enrollment, aggregates students' persistence and attainment outcomes based on transfer status. Indicates a transfer before first degree (if any) or last enrollment. Students were classified as
transfers only if they changed institutions permanently without returning to the original institution.

Did not transfer

Transferred

Before first degree (if any) or last enrollment, the student did not transfer. Includes all students categorized as "internal."

Before first degree (if any) or last enrollment, the student transferred. Includes all students categorized as "transfer."

Positive values on this variable are also used to identify the percentage of students who ever transferred before first degree (if any) or last enrollment.

For complete description see appendix A.

## Transferred before or after first degree

TRAN1ATT

Student transferred at some time during postsecondary education, based on attainment status at time of first transfer variable. Positive values on this variable are used to indicate the percentage of students who ever transferred during postsecondary education before or after attainment.

## Institutional Characteristics

## Level of institution

Level of referent institution. Aggregates level and control of institution according to level.

First institution attended
Institution where began working toward associate's degree OFCOAA
Institution where began working toward bachelor's degree OFCOBA Institution where began working toward certificate Longest institution attended Last institution attended Referent institution during the 1989-90 academic year Referent institution during the 1990-91 academic year Referent institution during the 1991-92 academic year Referent institution during the 1992-93 academic year

OFCO8990 OFCOCT

OFCOLONG OFCOLAST OFCO8990 OFCO9091 OFCO9192 OFCO9293

Less-than-2-year

2-year

An institution whose normal program of study is less than 2 years in duration.

An institution whose program of study results in an award or degree below the baccalaureate level, and
is at least 2 years but less than 4 years in duration. These institutions include many community and junior colleges.

An institution that offers 4-year baccalaureate degrees. These institutions may or may not also offer master's, doctoral, or first professional degrees in one or more programs as the highest degree awarded.

## Control of institution

Control of referent institution. Aggregates level and control of institution according to control.
First institution attended

## OFCO8990

Institution where began working toward associate's degree OFCOAA Institution where began working toward a bachelor's degree OFCOBA Institution where began working toward certificate OFCOCT Longest institution attended

OFCOLONG
Last institution attended OFCOLAST
Referent institution during the 1989-90 academic year OFCO8990
Referent institution during the 1990-91 academic year OFCO9091
Referent institution during the 1991-92 academic year
OFCO9192
Referent institution during the 1992-93 academic year
OFCO9293

Public

Private, not-for-profit

Private, for-profit

A postsecondary educational institution operated by publicly elected or appointed school officials in which the program and activities are under the control of these officials and that is supported primarily by public funds.

A postsecondary educational institution that is controlled by an independent governing board and incorporated under Section 501(c)(3) of the Internal Revenue Code.

A postsecondary educational institution that is privately owned and operated as a profit-making enterprise. These institutions include career colleges and proprietary institutions.

## Level and control of institution

Combined level and control of referent institution.

Institution where began working toward associate's degree OFCOAA Institution where began working toward a bachelor's degree OFCOBA Institution where began working toward a certificate First spell of continuous enrollment Longest spell of continuous enrollment Last spell of continuous enrollment Institution where attained highest degree OFCOLAST

Referent institution during the 1990-91 academic year
OFCONHI
OFCO9091
Referent institution during the 1991-92 academic year
OFCO9192
Referent institution during the 1992-93 academic year
OFCO9293
Referent institution during the 1993-94 academic year
OFCO9394

4-year
Public
Private, not-for-profit
Private, for profit
2-year
Public

Private, not-for-profit

Private, for-profit
Less-than-2-year
Public
Private, not-for-profit
Private, for-profit,

Public, 4-year institution
Private, not-for-profit, 4-year institution

Private for profit, 4-year institution

Public, 2-to 3-year institution
Private, not-for-profit, 2-to 3-year institution

Private, for-profit, 2-to 3-year institution

Public, less-than-2-year institution
Private, not-for-profit, less-than-2-year institution
Private, for-profit, less-than-2-year institution

Level and control of first institution
OFCO8990

Recoded level and control of the first (NPSAS) institution.

Public, 4-year
Private, not-for-profit, 4-year
Public, less-than-4-year
Private, not-for-profit, less-than-4-year

Public, 4-year institution
Private, not-for-profit, 4-year institution
Public, 2-to 3-year or less-than-2-year institution
Private, not-for-profit, 2-to 3-year or less-than-2year institution

Private, for-profit, less-than-4-year

Private, for-profit, 2-to 3-year or less-than-2-year institution

Ever attend a public 2-year institution
EVERCC

Positive values on this variable are used to identify the percentage of students who reported ever attending a public 2-year institution.

Ever attend a public or private, not-for-profit 4-year institution
EVER4YR

Positive values on this variable are used to identify the percentage of students who reported ever attending a public or private, not-for-profit 4-year institution.

## Ever attend a private, for-profit institution

## EVERPROP

Positive values on this variable are used to identify the percentage of students who reported ever attending a private, for-profit institution.

## Control of transfer institutions

TRAN1CTL
Variable indicates the relationship between the control of the institution the student transferred from and the control of the first institution they transferred to.

Did not transfer

Public to public

Private, not-for-profit to public

Public to private, not-for-profit

Other transfers

Student did not transfer.

Student transferred from one publicly controlled institution to another.

Student transferred from a private, not-for-profit institution to a publicly controlled institution.

Student transferred from a publicly controlled institution to a private, not-for-profit institution.

Student's transfer involved other combinations.

## Degree Characteristics

## Degree working toward

Type of degree student reported working toward at referent institution.

None

Certificate

Associate's degree

Bachelor's degree

## Degrees attempted at any time

Student did not report working toward any formal award.

Student reported working toward a certificate or formal award other than an associate's or bachelor's degree.

Student reported working toward an associate's degree.

Student reported working toward a bachelor's degree.

## Certificate

Associate's degree
Bachelor's degree

PERACT
PERAAA
PERABA

Positive values on those variables are used to identify the percentage of students who ever reported working toward the specific degree at any time during postsecondary education.

## Number of degrees attempted

NUMDEG
Number of degrees attempted during postsecondary education. Count of number of different degrees (associate's, bachelor's, and certificates) the student reported working toward during postsecondary education. Each certificate is considered a separate attempt.

None

One

Two

Three or more

Student did not attempt any degree during postsecondary education.

Student attempted one degree during postsecondary education.

Student attempted two degrees during postsecondary education.

Student attempted three or more degrees during postsecondary education.

| Certificate only | Student attempted only a certificate during <br> postsecondary education. |
| :--- | :--- |
| Associate's degree only | Student attempted only an associate's degree during <br> postsecondary education. |
| Bachelor's degree only | Student attempted only a bachelor's degree during <br> postsecondary education. |
| More than one degree | Student attempted more than one degree during postsecondary <br> education. |

## Type of degree attained

Type of degree attained during postsecondary education.

First degree
First degree at first institution attended Highest degree

DEGREE1
DEGREEFS
DEGALL

None

Certificate

Bachelor's degree

## Type of degree(s) attained

Student did not attain any degrees during postsecondary education.

Student attained a certificate or other formal award during postsecondary education.

Student attained an associate's degree during postsecondary education.

Student attained a bachelor's degree during postsecondary education.

Type of degree attained during postsecondary education. The variable indicates the type of degree or combination of degrees attained at any time during postsecondary education, without respect to order.

None

Certificate

Associate's degree

Student did not attain any degree during postsecondary education.

Student attained a certificate or other formal award during postsecondary education.

Student attained an associate's degree during postsecondary education.

Bachelor's degree

Certificate and associate's degree

Certificate and bachelor's degree

Associate's and bachelor's degree

Certificate, associate's and bachelor's degree

Student attained a bachelor's degree during postsecondary education.

Student attained a certificate and an associate's degree during postsecondary education.

Student attained a certificate and a bachelor's degree during postsecondary education.

Student attained an associate's and a bachelor's degree during postsecondary education.

Student attained a certificate, an associate's and a bachelor's degree.

## Student Characteristics

## Number of children

Number of children living with the student in the same household during month began at referent institution.

When began at first institution
When began working toward associate's degree When began working toward bachelor's degree When began working toward certificate When began first spell When began longest spell When began last spell

KIDS8990
KIDSAA
KIDSBA
KIDSCT
KIDS8990
KIDSLONG
KIDSLAST

None

One or more

Student had no children living in the same household.

Student had one or more children living in the same household.

Positive values on these variables are also used to identify the percentage of students with children living in the same household.

## Single parent status

Single parent status during month began at referent institution. Students are considered single parents if they report having children but are unmarried, divorced, widowed, or separated.

When began at first institution
SING8990

When began working toward associate's degree
SINGAA
When began working toward bachelor's degree
SINGBA
When began working toward certificate SINGCT
When began first spell
SING8990
When began longest spell SINGLONG
When began last spell
SINGLAST

Not a single parent
Student was not a single parent.
Single parent
Student was a single parent.
Positive values on these variables are also used to identify the percentage of students who were single parents.

Gender
H_GENDER
Male
Student was male.

Female
Student was female.
Race-ethnicity of student
Asian/Pacific Islander

Black, non-Hispanic

Hispanic

American Indian/Alaskan Native

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

Age

Age when began at first institution
AGE8990
Age when began working toward associate's degree
AGEAA
Age when began working toward bachelor's degree
Age when began working toward certificate
AGEBA
Age when began first spell
AGE8990
Age when began longest spell
AGELONG
Age when began last spell
AGELAST

18 years or younger
19 years
20-29 years
30 years or older

Student was 18 years old or younger.
Student was 19 years old.
Student was between 20 and 29 years old.
Student was 30 year old or older.

Socioeconomic status
SESPERC
Composite variable combining parent's education and occupation, dependent student's family income, and the existence of a series of material possessions in respondent's home.

Lowest quartile

Middle quartiles

Highest quartile

Socioeconomic status fell at or below the lowest 25th percentile.

Socioeconomic status fell between the 25th percentile and the 75th percentile.

Socioeconomic status fell at or above the 75th percentile.

## Marital status

Marital status when began at first institution
MAR8990
Marital status when began working toward associate's degree MARAA
Marital status when began working toward bachelor's degree MARBA
Marital status when began working toward certificate
Marital status when began first spell
Marital status when began longest spell
MAR8990
Marital status when began last spell
MARLONG
MARLAST

Not married

Married
Separated

Type of high school diploma
High school diploma

Student was not married. Includes students who were divorced or widowed.

Student was married.
Student was married, but separated from his or her spouse.

H_HSDIP
Student received a high school diploma.

GED, cert. of completion

Student received a GED (General Educational Development) certificate or a certificate of completion; also includes a small number of cases with no high school diploma.

Positive values on this variable are also used to identify the percentage of students without a regular high school diploma.

Parental education
RPARED
Highest level of education completed by either parent.
Less than high school Neither parent graduated from high school or received a GED (General Educational Development) certificate.

High school graduate One or both parents graduated from high school or received a GED certificate.

Some postsecondary One or both parents had some postsecondary education, less than a bachelor's degree, including an associate's degree.

Bachelor's degree or higher One or both parents earned a bachelor's degree, or an advanced degree such as a master's degree, Ph.D., M.D., etc.

Dependency status in 1989-90

## DEPEND

Dependency status for federal financial aid in 1989-90.
Independent Student was considered independent by meeting one of the following criteria:
(1) 24 years of age by December 31, 1989;
(2) a military veteran;
(3) a ward of the court or both parents are deceased;
(4) had legal dependents other than a spouse;
(5) was married or a graduate student and not claimed as a tax exemption for the 2 years previous to the beginning of the academic year and had at least $\$ 4,000$ in financial resources.
(6) was a single undergraduate but not claimed as a tax exemption for the 2 years previous to the beginning of the academic year and had at least $\$ 4,000$ in financial resources.

Dependent
Students were considered financially dependent in 1989-90 if they did not meet any of the criteria for independence.

## Dependency status

Dependency status for federal tax purposes.

When began at first institution
When began working toward associate's degree
When began working toward bachelor's degree
When began working toward certificate
When began first spell
When began longest spell
When began last spell

DEP8990
DEPAA
DEPBA
DEPCT DEP8990 DEPLONG DEPLAST

Independent

Dependent

Student reported not being claimed as dependent on parent's federal tax return in a specific year.

Student reported being claimed as dependent on parent's federal tax return in a specific year.

## Income and dependency status in 1989-90

## INCOME

Dependency status and categorical income level. Adjusted gross income in calendar year 1988. The source of income for dependent students is their parents or guardians; the source of income for independent students is their own earnings including those of their spouse if they were married. This variable is from NPSAS:90 and includes imputed values.

Dependent students

Less than \$20,000
\$20,000-\$39,999
\$40,000-\$59,999
$\$ 60,000$ or more
Independent students
Less than $\$ 10,000$
\$10,000-\$19,999
$\$ 20,000$ or more

Income less than \$20,000 in 1988.
Income between \$20,000 and \$39,999 in 1988.
Income between \$40,000 and \$59,999 in 1988.
Income more than \$60,000 in 1988.

Income less than \$10,000 in 1988.
Income between \$10,000 and \$19,999 in 1988.
Income more than \$20,000 in 1988.

## Number of Risk Factors

Count of number of persistence risk factors. Risk factors include delayed enrollment, no high school diploma, part-time attendance, financial independence, having children, being a single parent, and working full time while enrolled.

When began at first institution
When began working toward associate's degree
When began working toward bachelor's degree

When began working toward certificate
ATRSCT
When began first spell
When began longest spell
When began last spell

ATRS8990
ATRSLONG
ATRSLAST

None
One
Two
Three or more

Student had no risk factors.
Student had one risk factor.
Student had two risk factors.

## Delayed postsecondary enrollment

DELAYNER
Delayed entry into postsecondary education after high school graduation. Positive values on this variable are also used to identify the percentage of students who delayed entry.

Did not delay
Students with standard high school diplomas who entered postsecondary education in the same calendar year as high school graduation.

Delayed
Students who did not receive a standard high school diploma (received a GED or a certificate of completion) were considered to have delayed, as well as students with standard high school diplomas who did not enter postsecondary education in the same calendar year as high school graduation.

## Worked full time while enrolled

When began at first institution
EMWK8990
When began working toward associate's degree
EMWKAA
When began working toward bachelor's degree
EMWKBA
When began working toward certificate degree
EMWKCT
When began first spell
EMWK8990
When began longest spell
When began last spell
Did not work full time while Student worked less than 34 hours per week while enrolled enrolle
student who worked 34 or more hours/week while enrolled.

Students who considered their primary role in postsecondary education as employees were automatically considered to be full time. The remaining students were categorized as working full time while enrolled if the average number of hours/week they worked while enrolled was 34 or more. Positive values on these variables are also used to identify the percentage of students who worked full time while enrolled.

## Attendance status

Intensity of enrollment during the month when the student began at the referent institution.

| When began at first institution | ATT8990 |
| :--- | :--- |
| When began working toward associate's degree | ATTAA |
| When began working toward bachelor's degree | ATTBA |
| When began working toward certificate | ATTCT |
| When began first spell | ATT8990 |
| When began longest spell | ATTLONG |
| When began last spell | ATTLAST |
| When began the 1989-90 academic year | ATT8990 |
| When began the 1990-91 academic year | ATT9091 |
| When began the 1991-92 academic year | ATT9192 |
| When began AY 1992-93 academic year | ATT9293 |
| When began AY 1993-94 academic year | ATT9394 |

Full time
Part time Student was enrolled part time.

## Social, Academic, and Work Experiences

Index of social integration in 1989-90
SOCL8990
Average social integration at the NPSAS institution. Examines whether the student had contact with faculty outside of class, went places with friends from school, participated in student assistance centers/programs, or participated in school clubs. The mean of the students' responses across these questions was calculated. Each question used in the calculation included 4 possible responses: $1=$ never, $2=$ once, $3=$ sometimes, $4=o f t e n$.

| Low | Student's average social integration was less than or <br> equal to 1.75. |
| :--- | :--- |
| Moderate | Student's average social integration was greater <br> than 1.75 but less than or equal to 2.75. |
| High | Student's average social integration was greater <br> than 2.75. |

Average academic integration at the NPSAS institution. Examines whether the student attended career-related lectures, participated in study groups with other students, talked academic matters with faculty or met advisor concerning academic plans. The mean of the students' responses across these questions was calculated. Each question used in the calculation included 4 possible responses: $1=$ never, $2=$ once, $3=$ sometimes, $4=$ often.

| Low | Student's average academic integration was less <br> than or equal to 1.75. |
| :--- | :--- |
| Moderate | Student's average academic integration was greater <br> than 1.75 but less than or equal to 2.75. |
| High | Student's average academic integration was greater <br> than 2.75. |

Satisfaction with first institution in 1989-90
SATISFYN
Number of aspects of the institution the student reported being satisfied with. Examines whether the student was satisfied with the cost of attending the institution the prestige of the institution, teaching ability, social life, and their intellectual development.

Low

Moderate

High
Student reported being satisfied with one or fewer aspects of the institution.

Student reported being satisfied with two aspects of the institution.

Student reported being satisfied with three or more aspects of the institution.

## Local residence in 1989-90

## LOCALRES

Where the student reported living during the 1989-90 academic year.

| Campus housing | Student lived in institution-owned living quarters. <br> These are typically on-campus dormitories, <br> residence halls, or other facilities. |
| :--- | :--- |
| Off-campus | Student lived off-campus in non-institution-owned <br> housing, but not with parents. |
| With parents | Student lived at home with parents. |

## Educational aspirations in 1989-90

ASPIRE
Highest level of education that the student expected to complete. Recoded from the student's reported educational aspirations in the NPSAS survey.

Trade school
Student expected to earn a vocational certificate or license, or to attend college, but not to earn a bachelor's degree.

2-year degree

Bachelor's degree

Advanced degree

Student expected to earn less than a bachelor's degree, but planned to attend at least 2 years (including those who aspired to earn an associate's degree).

Student expected to earn a bachelor's degree, but not an advanced degree.

Student expected to earn a master's, doctorate, or first professional degree.

Average hours worked while enrolled in 1989-90
HRS8990
Average hours worked per week during those months when enrolled for at least part of the month. If the student was employed (including college work-study) during a given month, the average number of hours worked per week across all jobs held during the month was derived based on the start and end dates and the average hours worked per week of each job as reported during the interview. In calculating this average, the denominator was increased by 1 if the student was employed and enrolled at any time during the month. For this variable, employment was only considered if the student was enrolled during part of the month. For example, if students worked 20 hours per week for three months during the year they were enrolled, but worked 40 hours per week at other times, their value for this variable would be 20 (i.e., in deriving this variable, the hours employed while not enrolled were ignored).

Less than 5 hours
5-15 hours
16-25 hours
26-34 hours
More than 34 hours

## Grade point average in 1989-90

Student worked less than 5 hours while enrolled.
Student worked 5 to 15 hours while enrolled.
Student worked 16 to 25 hours while enrolled.
Student worked 26 to 34 hours while enrolled.
Student worked more than 34 hours while enrolled.
GPA

Cumulative grade point average over the 1989-90 academic year. The most recent GPA was used if the cumulative GPA was not available.

Less than C's
Mostly C's

B's and C's

Mostly B's

A's and B's

Student's grade point average fell at or below 1.75.
Student's grade point average fell between 1.75 and 2.25 .

Student's grade point average fell between 2.25 and 2.75 .

Student's grade point average fell between 2.75 and 3.25 .

Student's grade point average fell between 3.25 and 3.75 .

Count of number of types of remedial instruction received in 1989-90. Possible types include reading, mathematics, writing, and study skills.

None
One
Two or more

Student did not receive any remedial instruction.
Student received one type of remedial instruction.
Student received two or more types of remedial instruction.

## Education financing characteristics

Total costs in 1989-90
TOTCOST2
This variable represents the total student costs during the 1989-90 academic year, including the sum of tuition and fees, room and board, books and supplies, and other educational, room, or offcampus costs. Room, board, and other living costs for off-campus students is derived by multiplying the student-reported average monthly household expenses by the number of months enrolled. This variable adjusts for non-tuition costs of part time and independent students so that the monthly expenses of the independent household included in educational costs are limited to the student and related to attendance intensity.

Less than $\$ 4,000 \quad$ Student's education costs during the 1989-90 academic year was less than $\$ 4,000$.
\$4,000-\$7,999
\$8,000-11,999
$\$ 12,000$ or more
Student's education costs during the 1989-90 academic year was between $\$ 4,000$ and $\$ 7,999$.

Student's education costs during the 1989-90 academic year was between $\$ 8,000$ and $\$ 11,999$.

Student's education costs during the 1989-90 academic year was $\$ 12,000$ or more.

Total aid amount in 1989-90
TOTAID
Total amount of financial aid received by a student during the 1989-90 academic year. Includes grants, loans, or work study as well as loans under the PLUS program.

None
Student did not receive financial aid during the 1989-90 academic year.

Less than $\$ 2,000$
\$2,000-\$4,999

Financial aid received during the 1989-90 academic year was less than $\$ 2,000$.

Financial aid received during the 1989-90 academic year was between $\$ 2,000$ and $\$ 4,999$.

Financial aid received during the 1989-90 academic year was between $\$ 5,000$ and $\$ 6,999$.
$\$ 7,000$ or more
Financial aid received during the 1989-90 was $\$ 7,000$ or more.more.

Total federal aid amount in 1989-90
TFEDAID
Total amount of aid received by a student during the 1989-90 academic year from all federal aid programs. Positive values on this variable are also used to identify the percentage of students who received this category of aid.

None
Student did not receive federal financial aid during the 1989-90 academic year.

Less than \$2,000
\$2,000-\$4,999
\$5,000-\$6,999
$\$ 7,000$ or more
Federal financial aid received during the 1989-90 academic year was less than $\$ 2,000$.

Federal financial aid received during the 1989-90 academic year was between $\$ 2,000$ and $\$ 4,999$.

Federal financial aid received during the 1989-90 academic year was between $\$ 5,000$ and $\$ 6,999$.

Federal financial aid received during the 1989-90 academic year was $\$ 7,000$ or more.

Total loan amount in 1989-90
TOTLOAN
Total amount of non-family loan aid received by a student during the 1989-90 academic year. This includes all loans through federal, state, or institutional programs except PLUS loans (which are made to parents). Loans are a type of student financial aid that advances funds and that are evidenced by a promissory note requiring the recipient to repay the specified amounts under prescribed conditions. Does not include loans from parents, relatives, or friends.

None

Less than $\$ 1,000$
\$1,000-\$1,999
\$2,000-\$2,999
$\$ 3,000$ or more

Student did not receive a loan during the 1989-90 academic year.

Loans received during the 1989-90 academic year was less than $\$ 1,000$.

Loans received during the 1989-90 academic year was between $\$ 1,000$ and $\$ 1,999$.

Loans received during the 1989-90 academic year was between $\$ 2,000$ and $\$ 2,999$.

Loans received during the 1989-90 academic year was $\$ 3,000$ or more.

Total grants received during the 1989-90 academic year. This includes all grants from any source. Grants are a type of student financial aid that does not require repayment or employment. Grants include scholarships and fellowships.

None
Student did not receive a grant during the 1989-90 academic year.

Less than $\$ 1,000$
\$1,000-\$1,999
\$2,000-\$2,999
$\$ 3,000$ or more

Aid package at first institution in 1989-90
Grants received during the 1989-90 academic year was less than $\$ 1,000$.

Grants received during the 1989-90 academic year was between $\$ 1,000$ and $\$ 1,999$.

Grants received during the 1989-90 academic year was between $\$ 2,000$ and $\$ 2,999$.

Grants received during the 1989-90 academic year was $\$ 3,000$ or more.

AIDP8990
Types of financial aid received from all sources, including federal, state, institution, and other sources at the first (NPSAS) institution during the 1989-90 academic year.

No aid

Grants,no loans

Grants and loans

Loans, no grants

Other aid

Student did not receive any aid at the first institution during the 1989-90 academic year.

Student received grants but not loans at the first institution during the 1989-90 academic year.

Student received grants and loans at the first institution during 1989-90 academic year.

Student received loans but not grants at the first institution during 1989-90 academic year.

Student received aid other than grants or loans at the first institution during the 1989-90 academic year.

## Financial aid receipt during the academic year

During the 1989-90 academic year
AID8990
During the 1990-90 academic year
AID9091
During the 1991-92 academic year
AID9192
During the 1992-93 academic year
AID9293
During the 1993-94 academic year
AID9394
Yes
Student received non-family financial aid from any source; including federal, state, institution and other sources, during the academic year.

No
Student did not receive non-family financial aid from any source; including federal, state, institution and other sources, during the academic year.

Positive values on these variables are also used to identify the percentage of students who received any non-family aid during a particular academic year.

## Any financial aid

ANYAID93
Received any financial aid during postsecondary education.
Received financial aid Student received non-family financial aid from any source during postsecondary education.

Did not receive financial aid Student never received any non-family financial aid from any source during postsecondary education.

Positive values on this variable are also used to identify the percentage of students who received any non-family financial aid from any source during postsecondary education.

## Grants

GOTGRANT
Received any grants or scholarships during postsecondary education.

Received grant

Did not receive grant Student never received a grant or scholarship during postsecondary education.

Student received a grant or scholarship during postsecondary education.

Positive values on this variable are also used to identify the percentage of students who received a grant or scholarship during postsecondary education.

## Loans

Received any loans during postsecondary education.
Received loan
Student received a non-family student loan during postsecondary education.

Did not receive loan
Student never received a non-family student loan during postsecondary education.

Positive values on this variable are also used to identify the percentage of students who received non-family student loans during postsecondary education.

Received any employer aid during postsecondary education.

Student received employer aid during postsecondary education.

Did not receive employer aid Student never received any employer aid during postsecondary education.

Positive values on this variable are also used to identify the percentage of students who received employer aid during postsecondary education.

## Spouse or other relative financial assistance

Received any financial assistance from spouse or other relatives during postsecondary education.

Received spouse or other
relative financial assistance
Did not receive spouse or other relative financial assistance

Student received assistance from a spouse or other relatives during postsecondary education.

Student never received assistance from a spouse or other relatives during postsecondary education. Positive values on this variable are also used to identify the percentage of students who received assistance from a spouse or relatives during postsecondary education.

## Parents financial contribution

CNTRBPAR
Received any financial contribution from parents during postsecondary education.

Received parent's financial contribution

Did not receive parent's financial contribution

Student received a financial contribution from parents during postsecondary education.

Student never received any financial contribution from parents during postsecondary education.

Positive values on this variable are also used to identify the percentage of students who received a financial contribution from parents during postsecondary education.

Personal savings
PRSNSAVE
Used personal savings during postsecondary education.

Used personal savings

Did not use personal savings

Student used personal savings for tuition or associated living expenses during postsecondary education.

Student never used personal savings for tuition or associated living expenses during postsecondary education.

Positive values on this variable are also used to identify the percentage of students who used personal savings for tuition or associated living expenses during postsecondary education.

Received a loan from parents during postsecondary education.

Student received a parental loan during postsecondary education.

Student never received a parental loan during postsecondary education.

Positive values on this variable are also used to identify the percentage of students who received a parental loan during postsecondary education.

## Education borrowing activities

Borrowed for undergraduate education
EVERBOR
Positive values on this variable are used to identify the percentage of students who received any loan, including a family loan, during postsecondary education.

## Owe on postsecondary loans

## DRVOWE

Positive value on this variable are used to identify the percentage of students who still owed on any postsecondary loan from any source, including a family loan.

## Amount borrowed for postsecondary education <br> DRVBORAM

Amount the student borrowed for postsecondary education from all sources, including family as of spring 1994.

Less than \$5,000
\$5,000-9,999
\$10,000-14,999
\$15,000-19,999
\$20,000 or more

Amount student borrowed for postsecondary education was less than $\$ 5,000$.

Amount student borrowed for postsecondary education was between $\$ 5,000$ and $\$ 9,999$.

Amount student borrowed for postsecondary education was between $\$ 10,000$ and $\$ 14,999$.

Amount student borrowed for postsecondary education was between $\$ 15,000$ and $\$ 19,999$.

Amount student borrowed for postsecondary education was $\$ 20,000$ or more.

The variable was also used as an average.

Amount the student owes on loans borrowed for postsecondary education from all sources, including family, as of spring 1994.

Less than $\$ 5,000$
\$5,000-9,999
\$10,000-14,999
\$15,000-19,999
$\$ 20,000$ or more

Amount student owed on postsecondary loans was less than $\$ 5,000$.

Amount student owed on postsecondary loans was between $\$ 5,000$ and $\$ 9,999$.

Amount student owed on postsecondary loans was between $\$ 10,000$ and $\$ 14,999$.

Amount student owed on postsecondary loans was between $\$ 15,000$ and $\$ 19,999$.

Amount student owed on postsecondary loans was $\$ 20,000$ or more.

The variable was also used as an average.
Currently repaying educational loans SFCURREP

Positive values on this variable are used to identify the percentage of students who were repaying the postsecondary loans as of spring 1994.

## Paying by self

## SFREHELP

Positive values on this variables are used to identify the percentage of students who were repaying educational loans on their own, rather than receiving help from others.

Average monthly loan payment
SFAVGPAY
For students who reported repaying loans as of spring 1994 the variable represents their average monthly loan payment.

Less than $\$ 50$
Average monthly loan payment was less than $\$ 50$.
\$50-99
\$100-149
\$150-199
$\$ 200$ or more
Average monthly loan payment was between $\$ 50$ and $\$ 99$.

Average monthly loan payment was between $\$ 100$ and \$149.

Average monthly loan payment was between $\$ 150$ and \$199.

Average monthly loan payment was $\$ 200$ or more.

## Marital status and family formation

## Marital status in 1994

## MARITAL2

Marital status as of spring 1994. A small percentage of students who indicated that they were single, but living as married, were categorized as never married.

Never married
Married
Divorced, widowed, separated

Student reported never having been married.
Student reported being married.
Student reported being divorced, widowed, separated.

## Timing of marriage

WHEN_MAR
Student-reported date of marriage was compared to reported dates of first and last enrollment in order to determine the timing of marriage relative to postsecondary education.

Before postsecondary education Student reported marrying prior to postsecondary education.

While enrolled in postsecondary education

After last term
Current number of children

Student reported marrying while enrolled in postsecondary education.

Student reported marrying after last term in postsecondary education.

SECURCHL

Number of children reported by student as of spring 1994.
None
One or more
Student did not report having children.
Student reported having one or more child.

## Timing of first child

HAD_KID
Student-reported birthdate of first child was compared to reported dates of first and last enrollment in order to determine the timing of first child relative to postsecondary education.

Before postsecondary education

While enrolled in
postsecondary education
After last term

Student reported having first child prior to postsecondary education.

Student reported having first child during postsecondary education.

Student reported having first child after last term in postsecondary education.

Student's age as of spring 1994; derived by adding 5 years to the age of the students when they began postsecondary education.

24 years or younger
25-29 years
30-34 years
35 years or older

Student was 24 years old or younger.
Student was between 25 and 29 years old.
Student was between 30 and 34 years old.
Student was 35 years or older.

## Graduate school and further education activities

## Applied or intended apply to graduate school APPLY

Positive values on this variable are used to identify the percentage of students who intended to apply or had applied to graduate school. Derived for bachelor's degree attainers only.

## Attended graduate school

GRADSCHL
Positive values on this variable are used to identify the percentage of students who had ever attended graduate school. Derived for bachelor's degree attainers only.

## Type of licensing exam taken

Taken any licensing exams
SBLICEXM
Taken teachers licensing exam
SBTCHEXM
Taken nursing licensing exam
SBNUREXM
Taken medical licensing exam SBMEDEXM
Taken communication licensing exam
Taken business licensing exam SBCOMEXM SBBUSEXM SBCOSEXM SBENGEXM

Positive values on these variables are used to identify the percentage of those students who took licensing exams who reported taking these specific types of licensing examinations.

## Civic participation and voting activities

Participate in volunteer/community service in last 2 years
SIVOL2YR
Positive values on this variable are used to identify the percentage of students who reported performing any volunteer/community service work during the past 2 years, such as PTA, little league, scouts, service clubs, church groups, or social action groups.

Positive values on this variable are used to identify the percentage of students who reported currently performing any volunteer/community service work during spring 1994, such as PTA, little league, scouts, service clubs, church groups or social action groups.

## Types of community/volunteer service organization worked with within past 2 years

Service organization
Community center/social-action/neighbor group Church/church-related group
Hospital/nursing home
Youth organization
Educational organization

SISERORG SICOMCTR SICHRGRP SIHOSNUR SIYTHORG SIEDUORG

Positive values on these variables are used to identify the percentage of students who reported performing volunteer/community service in these types of organizations within the past 2 years.

Voter registration status
SVVOTREG
Student's reported voter registration status as of spring 1994.

Currently registered
Previously registered, Student had previously been registered to vote, but not currently registered

Never registered
Not eligible to register

Student was registered to vote as of spring 1994. but was not registered as of spring 1994.

Student had never registered to vote.
Student was not eligible to vote.

## Voting activities

Student's reported voting activity as of spring 1994.
Voted in local/state/national election since 2/92
Voted in 1992 presidential election

SIVTLSNE
SIV92PEL

Positive values on these variables are used to identify the percentage of students who voted.

## Employment experiences

Ever work while enrolled
SWORKAT
Positive values on this variable are used to identify the percentage of students who ever spent at least 1 month both working and enrolled during postsecondary education.

Number of jobs held during PSE
NUMJOBS
Count of number of jobs the student reported during postsecondary education.

None

One

Two

Three or more

## Co-op/apprentice job

Student did not hold any jobs during postsecondary education.

Student held one job during postsecondary education.

Student held two jobs during postsecondary education.

Students held three or more jobs during postsecondary education.

Working students who identified their primary role in postsecondary education as a student were asked the co-op status of all jobs held prior to the date of last enrollment. The variable indicates whether of those jobs at least one was a co-op job (i.e., one in which students receive vocational training through the cooperation of employers and the postsecondary institution).

Did not have at least one co-op or apprentice job
Had at least one co-op or apprentice job
Positive values on this variable are also used to identify the percentage of students who ever held a co-op job.

## On-campus job

ONCAMP
Working students who identified their primary role in postsecondary education as a student were asked the on-campus status of all jobs held prior to the date of last enrollment. The variable indicates whether at least one of those jobs was on-campus.

Did not have at least one on-campus job
Had at least one on-campus job
Positive values on this variable are also used to identify the percentage of students who ever held an on-campus job.

## Job related to studies

## RFOS

Working students who identified their primary role in postsecondary education as a student were asked whether any jobs held prior to the date of last enrollment were related to their undergraduate field of study. The variable indicates whether at least one of those jobs was "closely" related to their undergraduate field of study. A job was considered unrelated if it was reported to be either "somewhat" or not related to their field of study.

Did not have at least one job related to studies
Had at least one job related to studies
Positive values on this variable are also used to identify the percentage of students who reported holding at least one job related to their field of study.

Across all months during which students were both enrolled and working, students reported more than one job per month for at least 2 months (months were not necessarily sequential).

Did not hold more than one job simultaneously
Held more than one job simultaneously
Positive values on this variable are also used to identify the percentage of students who ever held simultaneous jobs.

## Most recent job

Primary occupation 1993
OCCUP93
Occupational category of principal job in 1993.
Clerical
Craftsman\repair
Laborer
Managerladministrator
Skilled machinist
Professional
Sales
Services including protective services
Technicallcomputer
Other

## Satisfaction with most recent job

Students reported satisfaction with aspects of most recent job.
Pay \& fringe benefits
Job security/permanence
SCSATPAY
Promotion opportunity SCSATSEC

Further educational opportunities SCSATPRO

Importance of work SCSATEDO

Difficulty/challenge of work SCSATIMP

Overall satisfaction SCSATDIF SCSATALL

| Satisfied | Student indicated being satisfied with the specific <br> aspect of the most recent job. |
| :--- | :--- |
| Dissatisfied | Student indicated being satisfied with the specific <br> aspect of the most recent job. |

## Unemployment experiences

Positive values on this variable are used to identify the percentage of students who reported ever being unemployed between 1989 and 1994. Unemployed is defined as having no job but actually seeking work.

Ever receive unemployment compensation
GETCOMP
Positive values on this variable are used to identify the percentage of students who reported ever receiving unemployment compensation between 1989 and 1994.

Total duration of unemployment in weeks
TOTDUR
Variable represents the total number of months the student was ever unemployed between 1989 and 1994. Variable used as an average.

## Unemployed during calendar year

Variable represents the number of separate periods of unemployment during each calendar year. Unemployment periods may be counted more than once.

Positive values on these variables are used to identify the percentage of students who reported being unemployed in a academic year.

## Most recent principal job

Months before obtained first principal job after PSE
TIME2FJ
Variable represents the number of months between the students' last enrollment and when they obtained their first job. Students who obtained a job immediately after postsecondary education were coded as 0 . Students who reported being still enrolled in spring 1994 or who never worked were coded as missing on this variable.

Less than 1 month

1-3 months

3-6 months

6-9 months

Student obtained first principal job within one month after postsecondary education.

Student obtained first principal job within one to three months after postsecondary education.

Student obtained first principal job within three to six months after postsecondary education.

Student obtained first principal job within six to nine months after postsecondary education.

Student obtained first principal job within nine to twelve months after postsecondary

More than 12 months Student obtained first principal job more than twelve months after postsecondary education.

## Activities to obtain most recent principal job

Looked through want ads
Asked family, friends, or faculty-recent job
Asked for interview to determine opportunity
Went to campus placement office
Sent resume, submitted application
Other action taken

RJWADS
RJFAMF
RJINTV
RJSCPL
RJRESU
RJOTHR

Positive values on these variables are used to identify the percentage of students who performed the specific job search activities in order to obtain their most recent job.

## Relationship between most recent principal job and education

Able to apply skills learned in school
Could have obtained job without education
Job different from education and training
Job used tools and equipment trained to use
RJAPPLSC
RJJWOTED
RJJDIFTR
RJTEQTRA

Positive values on these variables are used to identify the percentage of students who reported these specific aspects as characteristic of the relationship between their most recent principal job and their postsecondary education.

## Appendix C

## Technical Notes and Methodology

## Survey Content

The need for a nationally representative database on postsecondary student financial aid prompted the U.S. Department of Education to conduct the 1990 National Postsecondary Student Aid Stur (NPSAS:90). To provide the full range of information on financing postsecondary education, NPSAS included both aided and nonaided students. The 1990/94 Beginning Postsecondary Students Longitudinal Study (BPS:90/94) followed students identified as first-time beginning (FTB) students in the academic year 1989-90 from the NPSAS:90 sample. A computer-assisted telephone interview (CATI) was conduct both 2 and 4 years after the NPSAS:90 survey that obtained information concerning enrollment, program completion, education financing, employment, and family formation; graduate school access and enrollment; and civic participation. The data derived from this survey permit a variety of analyses concerning postsecondary persistence and completion, entry into the work force, and civic participation.

## Target Population

The target population of BPS is all students who entered postsecondary education for the first time in academic year 1989-90. In defining the cohort as students who began postsecondary education-regardless of when they graduated from high school-BPS represents a departure from previc longitudinal studies of high school cohorts. The sample was designed to include students enrolled in all types of postsecondary education. Thus, it included students enrolled in public institutions; private, not-for-profit institutions; and private, for-profit institutions. The sample included students at 2-year and 4-year institutions, as well as students enrolled in occupationally specific programs that lasted for less than 2 years.

The BPS sample is more likely than previous longitudinal studies to include some of the increasing numbers of "nontraditional" postsecondary students, such as those who have delayed their education due to financial needs or family responsibilities. Students who began their postsecondary studies during some other period and then returned to them in 1989-90 were not included nor were those who were still enrolled in high school. Similarly, institutions offering only correspondence courses, institutions enrolling only their own employees, and U.S. service academies were not eligible for NPSAS or BPS.

Students eligible for BPS were identified in two stages. The first stage involved selection for the NPSAS:90 sample, identified as being representative of all students enrolled in postsecondary education between July 1, 1989 and June 30, 1990. Of the NPSAS:90 sample, those who were identified a being first-time enrollees were eligible for BPS and were retained in the 1992 interview. BPS data are

[^28]nationally representative by institution level and control, but like NPSAS data are not representative at the state level.

A database of 11,700 NPSAS:90 participants that was believed to contain all possible FTB students in the NPSAS:90 sample was the basis for selecting the BPS:90/92 sample. Prior to the start of interviewing for BPS:90/92, 1,076 of the 11,700 first-time beginners were excluded from participation after a review of the NPSAS: 90 data revealed that they had been improperly classified.

In total the BPS:90/92 working sample consisted of 10,624 students. Considerable effort was directed toward ensuring that the sample for BPS:90/92 contained appropriate members. Since the preliminary sample contained a fairly large number of individuals with questionable status as FTB students, during the course of interviewing for BPS:90/92 2,697 additional students were identified as ineligible and 13 were identified as deceased. Of the 7,914 who remained, 6,520 were given full or partial interviews and 1,394 did not respond.

For additional information on the BPS:90/94 survey, consult thBeginning Postsecondary Students Longitudinal Study Second Follow-up (BPS:90/94) Final Technical ReporPostsecondary Longitudinal Studies Branch, Postsecondary Education Division, National Center for Education Statistics, U.S. Department of Education, 555 New Jersey Avenue NW, Washington, DC 20208-5652.

## BPS:90/94 Sample Design and Data Collection Procedures

The BPS:90/94 working sample consisted of the BPS:90/92 eligible respondents, plus those 90/92 non-respondents for whom BPS-eligibility (FTB status) had yet to be determined.

Data collection for BPS:90/94 was completed utilizing Computer-Aided Telephone interview (CATI). Location of student cases for the BPS:90/94 full-scale survey was initiated with information provided by the BPS:90/92 locating database. All student and tracing source contact information contained in that database was submitted to a national change of address (NCOA) service for updating. Cases not located during BPS:90/92 were forwarded directly to pre-CATI telephone tracing, and subsequently to field locating if intensive telephone tracing was unsuccessful. Prior to the start of CATI operations, a pre-notification mailing was made to the student, enabling current contact information to be provided to interviewers for basic CATI locating efforts. In the event that CATI locating was unsuccessful, cases were sent to post-CATI central trace for telephone tracing and, again as necessary, field locating.

Cases entered CATI in three separate waves. The initial wave contained the 6,950 cases not requiring pre-CATI locating; the secondary wave contained 725 cases located in pre-CATI trace. The third wave into CATI reflects "reactivations" of cases previously in CATI but identified for post-CATI trace and successfully located through those additional tracing procedures.

During tracing operations, 127 cases were identified as "exclusions"; this classification included those who were: (a) out of the calling areà;(b) deceased; (c) institutionalized or

[^29]physically/mentally incapacitated and unable to respond to the survey; or (d) otherwise unavailable for the entire data collection period. Discounting these exclusions, 7,132 were located and 655 were not.

For sample members who had not responded to BPS:90/92, FTB status had not been confirmè̉dAm the 1,376 former nonrespondents for whom BPS eligibility was not determined in BPS:90/92, FTB status was determined for 884 in BPS:90/94. Of these 884 , 165 ( 18.7 percent) were determined to be non-FTBA total of 6,786 sample members were interviewed in 1994. Of these, 5,926 were full interviews and 691 were partial interviews (including 448 current status interviews).

## Response Rates

A student was defined to be a respondent for BPS:90/94 if the student either confirmed the schools attended (including identification of any additional schools not previously reported) or provided status as of February 1994 for enrollment, employment, and postsecondary degree attainment. Of the 7,239 who are known to be eligible sample students, 6,617 responded; eligibility status is still undetermined for 486 sample members (approximately 6 percent of the BPS:90/94 sample). Thus, the unweighted BPS:90/94 response rate is 91.4 percent among those students known to be eligible for BPS:90/94. The weighted response rate, using the NPSAS: 90 analysis weights, is 91.0 percent (table C1). The number of sample members with sufficiently detailed enrollment histories to allow for classification in the persistence variables used in this report was 6,018 .

## Sample Weighting and Estimation Procedures

Including the BPS:90/92 weights, four sets of weights have been prepared for analysis of the BPS:90/94 data. These four sets of weights include:
(1) BPS:94 primary weight, cross-sectional and retrospective (BPS94AWT). These are the primary weights to be used for analysis of the data collected in the 1994 survey for the population of students who were first-time beginning students in the 1989-90 academic year and had not died prior to 1994. These weights are also used for analysis of trends utilizing data items collected retrospectively in the 1994 interviews for the population of students who were first-time beginning students in the 1989-90 academic year and had not died prior to 1992. These are the weights used in this report.

[^30](2) BPS:92 weight, cross-sectional and retrospective (BPS92CWT). These weights are used for analysis of the 1992 survey data items collected either directly in the 1992 interviews or retrospectively in the 1994 interviews for the population of students who were first-time beginning students in the 1989-90 academic year and had not died prior to 1992.
(3) BPS:92 weight, cross-sectional but not retrospective (BPS92NWT). These weights are used for analysis of the data collected only in the 1992 survey for the population of students who were first-time beginning students in the 1989-90 academic year and had not died prior to 1992 .
(4) BPS:92 to BPS:94 weight, longitudinal but not retrospective (BPS92LWT). These weights are used for analysis of trends based on responses to comparable items collected in the 1992 and 1994 interviews for the population of students who were first-time beginning students in the 1989-90 academic year and had not died prior to 1994. These weights are used primarily for analysis of those items that were not collected retrospectively in the 1994 interviews.

Each set of weights contains an estimation weight to be used for estimating population parameters (e.g., means, percentages, and regression coefficients). Each set of weights also contains a set of 35 replicate weights for computation of sampling variance estimates using the Jackknife replication technique.

Taylor series variance estimates for nonlinear survey statistics are based on representation of the nonlinear statistic by its first-order Taylor series expansion and computation of its variance as if the sampling design were a nested, multistage design with a stratified sample of PSUs selected at the first stage. ${ }^{6}$ Hence, given the linearization of any nonlinear survey statistic, the essential ingredients for computation of Taylor series variance estimates are the analysis strata and analysis PSUs.

The Taylor series analysis strata and analysis PSUs are based on the first stage of the sampling design, which for BPS:90 was the first stage of the NPSAS:90 sampling design. Hence, the analysis strata and analysis PSUs developed for use with the NPSAS:90 weights (OFCON2 and PSU) can also be with the BPS:90/92 weights to compute estimates of sampling variances using the Taylor series technique.

Two types of replication techniques are commonly used for variance estimation for stratified multistage sampling design like the NPSAS:90 design. They are balanced repeated replication (BRR) and Jackknife replications. The Jackknife procedure has generally been shown to produce variance estimators that are at least as accurate as, if not more accurate than, their BRR competitors.

[^31]Moreover, the Jackknife variance estimators tend to be less erratic when computing variances for small analysis domains because each Jackknife replicate contains sample members except those in a single analysis PSU, whereas each BRR replicate contains only half the analysis PSUs in the sample. Therefore, 35 Jackknife replicate weights were defined for estimation of NPSAS:90 sampling variances. All BPS:90 weight adjustments were independently replicated with each of the Jackknife replicate weights to produce replicate weights that can be used for estimation of sampling variances for the BPS:90 analysis files.

## Accuracy of Estimates

The statistics in this report are estimates derived from a sample. Two broad categories of error occur in such estimates: sampling and nonsampling errors. Sampling errors happen because observations are made only on samples of students, not on entire populations. Non-sampling errors occur not only in sample surveys but also in complete censuses of entire populations.

Nonsampling errors can be attributed to a number of sources: inability to obtain complete information about all students in all institutions in the sample (some students or institutions refused to participate, or students participated but answered only certain items); ambiguous definitions; differences in interpreting questions; inability or unwillingness to give correct information; mistakes in recording or coding data; and other errors of collecting, processing, sampling, and estimating missing data.

## Data Analysis System

The estimates presented in this report were produced from the BPS:90/94 Data Analysis System (DAS). The DAS software makes it possible for users to specify and generate their own tables from postsecondary data sets. With the DAS, users can recreate or expand upon the tables presented in this report. In addition to the table estimates, the DAS calculates proper standard errorsmd weighted sample sizes for these estimates. For example, table C2 presents the standard errors that correspond to selected tables in the text, and the weighted sample size appear in C3. If the number of valid cases is too small to produce an estimate (i.e., less than 30), the DAS prints the message "low-N" instead of the estimate.

In addition to tables, the DAS will also produce a correlation matrix of selected variables to be used for linear regression models. Included in the output with the correlation matrix are the design effects (DEFT) for all the variables identified in the matrix. Since statistical procedures generally compute regression coefficients based on simple random sample assumptions, the standard errors must be adjusted with the design effects to take into account the BPS-stratified sampling method.

For more information about the NCES Data Analysis Systems, contact:

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## Analysis Variables

The analysis variables used in this report were derived from the base year NPSAS:90 survey, the 1992 BPS first follow-up, and the 1994 BPS second follow-up. Many of the student characteristics variables originally collected in NPSAS:90 (age, race-ethnicity, type of high school diploma, high school graduation year) were verified, completed, or corrected in the follow-up interviews, so there are small differences in the distributions of the characteristics of the BPS students identified in the NPSAS:90, in the BPS:90/92, and in the BPS:90/94 Data Analysis Systems (DAS). The income variable i in this report is the original NPSAS:90 variable which includes imputed values for approximately onethird of the cases.

The cases with sufficiently detailed enrollment histories to allow classification in the persistence variables used in this report and available in the BPS:90/94 DAS represent $89.4 \%$ of the weighted BPS sample. Each of the persistence variables (described in appendix A) is accompanied by a set of descriptive variables (age, attendance status, risk factors, type of institution) specific to the approach that the persistence variable represents. These are described in the glossary (appendix B). The notes to the analysis variables in the BPS:90/94 DAS include the SAS code used to create them.

## Statistical Procedures

The comparisons described in the report have all been tested for statistical significance to ensure that the differences are larger than those that might be expected due to sampling variation. The following two types of comparisons have been made in the report:

Differences in two estimated percentages.The paired comparisons were tested using Student'\& statistics. Comparisons based on the estimates of the proportions include the estimates of the probability of a Type I error, or significance level. The significance levels were determined by calculating the Student'st values for the differences between each pair of means or proportions and comparing these with published tables of significance levels for two-tailed hypothesis testing. Student's $t$ values may be computed for comparisons using these tables' estimates with the following formula:

$$
t=\frac{E_{1}-E_{2}}{\sqrt{s e_{1}^{2}+s e_{2}^{2}}}
$$

where $\mathrm{E}_{1}$ and $\mathrm{E}_{2}$ are the estimates to be compared and seand $\mathrm{se}_{2}$ are their corresponding standard errors. Note that this formula is valid only for independent estimates. When the estimates were not
independent, for example, when comparing the percentages across a percent distribution in this report-a row in a table-a covariance term was added to the denominator of thetest formula. The addition of the covariance term results in the following formula:

$$
t=\frac{E_{1}-E_{2}}{\sqrt{s e_{1}^{2}+s e_{2}^{2}+2\left(s e_{1} * s e_{2}\right)}}=\frac{E_{1}-E_{2}}{s e_{1}+s e_{2}}
$$

There are hazards in reporting statistical tests for each comparison. First, comparisons based on large $t$ statistics may appear to merit special attention. This can be misleading since the magnitude of the $t$ statistic is related not only to the observed differences in means or percentages but also to the number of students in the specific categories used for comparison. Hence, a small difference compared across a large number of students would produce a largestatistic.

A second hazard in reporting statistical tests for each comparison is making multiple comparisons among categories of an independent variable. For example, when making paired comparison among different levels of income, the probability of a Type I error for these comparisons taken as a group is larger than the probability for a single comparison. When more than one difference between groups of related characteristics or "families" are tested for statistical significance, one must apply a standard that assures a level of significance for all of those comparisons taken together.

Comparisons were made in this report only when $\sum .05 / k$ for a particular pairwise comparison, where that comparison was one ofk tests within a family. This guarantees both that the individual comparison would have $\mathrm{p} \leq .05$ and that when $k$ comparisons were made within a family of possible tests, the significance level of the comparisons would sum to $\mathbb{\otimes} .05 .{ }^{9}$

For example, in a comparison of the percentages of males and females who enrolled in postsecondary education, only one comparison is possible (males $v$. females). In this famik ${ }_{k}=1$, and the comparison can be evaluated with a Student' $\$$ test. When students are divided into five racial-ethnic groups and all possible comparisons are made, thek=10 and the significance level of each test must be $\mathrm{p} \leq .05 / 10$, or .005 . The formula for calculating family size $(\mathrm{k})$ is as follow $k=j$ * $(\mathrm{j}-1) / 2$, where j is the number of categories for the variable being tested. In the case of race-ethnicity, there are five racial-ethnic groups (American Indian/Alaskan Native; Asian/Pacific Islander; black, non-Hispanic; Hispanic; and white, non-Hispanic), sb=5*(5-1)/2=10.

Trends. In some instances pair-wise comparisons proved too cumbersome. For example, one woulc like to say something about the general relationship between the percentage of first-time beginners who attained a degree and their number of risk factors when they began postsecondary education. In many cases not all of the six possible comparisons are statistically significant, even though the data appear to suggest clear trends. In such cases, a weighted least squares regression formula was used to test whether the inverse trend between the number of risk factors and the percentage of students with a postsecondary degree was significant, even if all of the pair-wise comparisons were not.

[^33]This regression test for linearity was done in this analysis using the data manipulation and regression capabilities of the Microsoft EXCEL spreadsheet program. The input data for the regressions were the estimates and standard errors in the output tables created by the Data Analysis System. All of the variables included in the regression equations were transformed by dividing them by the standard error of the relevant proportion. An intercept variable was also created by dividing a column of 1 s by the standard error of the corresponding proportion. The new dependent variable was then regressed on the new independent variable and the intercept variable. The statistical significance of beta for the independent variable was then evaluated in relation $¥ 0.05$, or $t \geq 1.96$. One important limitation of this test is that it can only be used to assess trends across interval variables or variable categories.

Table C1—Response rates for students included in the BPS:90/94 analysis file, by selected institution characteristics

|  | Unweighted <br> response rate | Weighted <br> response rate |
| :--- | :---: | :---: |
| All students | 91.4 |  |
| Institution type |  | 91.0 |
| Less-than-2-year | 88.1 |  |
| 2-year | 89.3 | 87.0 |
| 4-year, nondoctorate-granting | 92.9 | 90.2 |
| 4-year, doctorate-granting | 93.1 | 92.7 |
| Institution control |  | 92.8 |
| Public | 92.1 |  |
| Private, not-for-profit | 92.7 | 91.3 |
| Private, for-profit | 87.2 | 92.5 |
| Level and control |  | 86.7 |
| 4-year | 93.0 |  |
| Public | 93.1 | 92.8 |
| Private, not-for-profit | 90.0 | 92.8 |
| 2-year | 89.4 | 90.4 |
| Public | 88.6 | 89.5 |
| Private, not-for-profit |  | 87.9 |
| Private, for-profit (2-year or more) | 92.4 | 89.2 |
| Less-than-2-year | 95.3 | 94.7 |
| Public | 86.4 | 85.9 |
| Private, not-for-profit | Private, for-profit |  |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90-94).

Table C2—Standard errors for table 1.3 (partial)—Percentage distribution of 1989-90 beginning postsecondary students according to overall persistence and attainment of highest degree as of spring 1994, by demographic characteristics

|  | None | Certificate | Associate's degree | Bachelor's degree |
| :---: | :---: | :---: | :---: | :---: |
| Total | 1.08 | 0.79 | 0.81 | 1.05 |
| Gender |  |  |  |  |
| Male | 1.52 | 1.05 | 0.91 | 1.31 |
| Female | 1.47 | 1.10 | 1.18 | 1.29 |
| Age when began at first institution |  |  |  |  |
| 18 years or younger | 1.22 | 0.69 | 0.99 | 1.37 |
| 19 years | 3.12 | 2.30 | 2.63 | 1.54 |
| 20-29 years | 2.67 | 2.34 | 1.52 | 0.88 |
| 30 years or older | 3.35 | 2.80 | 1.69 | 0.55 |
| Socioeconomic status |  |  |  |  |
| Lowest quartile | 2.98 | 2.38 | 1.55 | 1.04 |
| Middle quartiles | 1.58 | 1.15 | 1.09 | 1.14 |
| Highest quartile | 1.48 | 0.90 | 1.25 | 1.66 |
| Race-ethnicity of student |  |  |  |  |
| American Indian/Alaskan Native | 13.06 | 11.05 | 9.39 | 5.89 |
| Asian/Pacific Islander | 5.37 | 3.38 | 2.94 | 4.61 |
| Black, non-Hispanic | 3.22 | 2.44 | 2.08 | 2.09 |
| Hispanic | 3.99 | 3.23 | 2.62 | 2.80 |
| White, non-Hispanic | 1.25 | 0.90 | 0.90 | 1.21 |
| Marital status when began at first institution |  |  |  |  |
| Not married | 1.09 | 0.79 | 0.91 | 1.19 |
| Married | 3.32 | 2.77 | 1.64 | 1.01 |
| Separated | 10.50 | 10.53 | 1.86 | 0.79 |
| Parental education |  |  |  |  |
| Less than high school diploma | 3.43 | 3.10 | 1.57 | 1.51 |
| High school diploma | 1.78 | 1.45 | 1.36 | 1.22 |
| Some postsecondary | 2.04 | 1.46 | 1.54 | 1.70 |
| Bachelor's or higher | 1.64 | 0.93 | 1.26 | 1.77 |
| Dependency status in 1989-90 |  |  |  |  |
| Dependent | 1.15 | 0.75 | 0.97 | 1.28 |
| Independent | 2.27 | 1.92 | 1.10 | 0.60 |
| Income and dependency status in 1989-90 |  |  |  |  |
| Dependent |  |  |  |  |
| Less than \$20,000 | 2.33 | 1.72 | 1.90 | 1.76 |
| \$20,000-39,999 | 2.02 | 1.43 | 1.61 | 1.75 |
| \$40,000-59,999 | 2.28 | 1.45 | 1.69 | 1.93 |
| \$60,000 or more | 2.25 | 1.14 | 2.04 | 2.64 |
| Independent |  |  |  |  |
| Less than \$10,000 | 3.21 | 2.90 | 1.80 | 1.09 |
| \$10,000-19,999 | 4.30 | 3.79 | 2.14 | 0.91 |
| \$20,000 or more | 3.36 | 2.92 | 1.77 | 1.00 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).

Table C3-Weighted sample sizes for selected row variables
N (in thousands)


SOURCE: U.S. Department of Education, National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study-Second Follow-up (BPS:90/94).


[^0]:    ${ }^{1}$ Appendix C, table C3.
    ${ }^{2}$ For more details, see U.S. Department of Education,National Center for Education Statistics, Descriptive Summary of 1989-90 Beginning Postsecondary Students: Two Years Later(Washington, D.C.:1994).
    ${ }^{3}$ Appendix A contains a detailed description of the persistence and attainment variables used in this report.

[^1]:    ${ }^{4}$ Each sector included institutions that are under public; private, not-for-profit; or private, for-profit control. ${ }^{5}$ Essay table 12.
    ${ }^{6}$ Compendium table 14.11 .

[^2]:    ${ }^{7}$ Vincent Tinto, Leaving College: Rethinking the Causes and Cures of Student Attrition, 2nd ed. (Chicago, IL: University of Chicago Press, 1993), chapter 2.
    ${ }^{8}$ See Appendix A for the decision rules used in determining the persistence categories discussed below.

[^3]:    ${ }^{9}$ See U.S. Department of Education, National Center for Education Statistics,Transfer Behavior Among Beginning Postsecondary Students: 1990-94 (Washington, D.C., forthcoming), for a detailed discussion of transfers.
    ${ }^{10}$ Comparing the first and last institutions may overlook intermediate transitions between sectors.

[^4]:    ${ }^{11}$ This is different from the students' aspirations in terms of thehighest degree or level of education they ever expected to complete, whid was a separate question. See Compendium tables $10.4 \mathrm{a}-\mathrm{c}$ for aspirations.

[^5]:    ${ }^{12}$ Compendium table 14.10 .

[^6]:    ${ }^{13}$ Because the same students can be in more than one category, the totals add up to more than 100 percent.

[^7]:    ${ }^{14}$ Compendium table 1.5.

[^8]:    ${ }^{15}$ Compendium table 14.10 .

[^9]:    ${ }^{16}$ This finding is consistent with previous research. See U.S. Department of Education, National Center for Education Statistics,College Persistence and Degree Attainmentfor 1980 HighSchoolGraduates: HazardsforTransfers, Stopouts, and Part-timers (Washington, D.C.: 1989); U.S. Department of Education, National Center for Education Statistics,High School and Beyond, Educational Attainment of 1980 High School Sophomores by 1992: 1992 Descriptive Summary of 1980 High School Sophomores 12 Years Later(Washington, D.C.: 1995).

[^10]:    ${ }^{17}$ J.P.Bean and B.S.Metzner, "A Conceptual Modelof Non-traditional Undergraduate Student Attrition,"Review of Educational Research, 55 (4) (1985): 485-540.
    ${ }^{18}$ U.S. Department of Education, National Center for Education Statistics,Profile of Undergraduates in U.S. Postsecondary Institutions: 1992-93: With an Essay on Undergraduates at Risk(Washington, D.C.: 1995).
    ${ }^{19}$ The seven risk factors included no high school diploma(students who did not receive a high school diploma or who received a GED $\alpha$ certificate of completion were considered not to have received a regular high school diploma);delayed entry after high school (students were automatically considered to have delayed entry if they did not receive a regular highschool diploma or if they received a GED or certificate of completion. If the students received a high school diploma, they were categorized as delayed ifthey did not enter postsecondary education in the same year that they graduated from high school); being financially independent; having children; being a single parent (students wee considered single parents if they had children living with them and were unmarried); attending less thanfull time during the first term; and working full time while enrolled (working full time while enrolled was defined as working 34 or more hours per week).

[^11]:    ${ }^{20}$ All differences in persistence between those whohad the risk factor present and those who did not were statistically significant except for single parents beginning at 2-year institutions.

[^12]:    ${ }^{21}$ See Vincent Tinto, Leaving College: Rethinking the Causes and Cures of Student Attrition, 2nd ed. (Chicago, IL: University of Chicago Press, 1993), chapter 3.

[^13]:    ${ }^{22}$ J.P. Bean and B.S. Metzner, "A Conceptual Model of Non-traditional Undergraduate Student Attrition,Review of Educational Research 55 (4) (1985): 485-540.

[^14]:    ${ }^{23}$ See table 15.
    ${ }^{24}$ U.S. Department of Education, National Center for Education Statistics, College Persistence and Degree Attainment for 1980 High School Graduates: Hazards for Transfers, Stopouts, and Part-timers(Washington, D.C.: 1989).

[^15]:    ${ }^{25}$ This is not inconsistent with the finding that there was no difference inoverall persistence (anywhere in postsecondary education) between black, non-Hispanic and white, non-Hispanic students who began at 4-year institutions (table 17).

[^16]:    ${ }^{26}$ Compendium table 14.9 .

[^17]:    -Too few cases for a reliable estimate.

[^18]:    -Too few cases for a reliable estimate.

[^19]:    ${ }^{1}$ Students who attained at first institution and transferred after degree not classified as transfers.
    ${ }^{2}$ Postsecondary education.
    *Through first degree (if any) or last enrollment.
    $\dagger$ Not applicable.

[^20]:    ${ }^{1}$ Students who attained at first institution and transferred after degree not classified as transfers.
    ${ }^{2}$ Postsecondary education.

[^21]:    ${ }^{1}$ Student enrolled in a different degree program before the spring of 1994.
    ${ }^{2}$ Total includes cases where level and control of the institution where began working toward the degree is unknown.
    ${ }^{3}$ Risk factors included delayed enrollment, being a GED recipient, being financially independent, having children, being a single parent, pat time attendance, and working full time while enrolled.
    ${ }^{4}$ Passed tests of General Educational Development or highschool equivalent, also includes a small number of cases with no high school diploma
    SOURCE:U.S.Department of Education,National Center for Education Statistics, 1990 Beginning Postsecondary Students Longitudinal Study—Secord Follow-up (BPS:90/94), Data Analysis System.

[^22]:    -Too few cases for a reliable estimate.

[^23]:    -Too few cases for a reliable estimate.

[^24]:    ${ }^{1}$ AYyy refers to the academic year.

[^25]:    ${ }^{2}$ See Essay Persistence Toward the Bachelor's Degree at 4-year Institution, pp. 22-27.

[^26]:    * PER8990X does not include the category not enrolled in AYyy.
    **Because subsequent enrollment is not observed, PER9394R does not include the categories for stopout or delayed transfer and persisters are categorized as still enrolled.

[^27]:    * Since subsequent enrollment was not observed at the last institution, the possible outcomes are limited to: attained a certificate or degree from the institution, still enrolled, and left without return. For complete description see appendix A.

    Attained degree

    No degree, enrolled

    Student had attained the degree working toward as of spring 1994. Includes students coded as "internal" as well as "transfer" "attained" and "non-continuous attained."

    Student was still enrolled toward the degree as of spring 1994. Includes students coded as "internal"

[^28]:    ${ }^{1}$ Four-year institutions include all institutions offering 4-year baccalaureate degrees.

[^29]:    ${ }^{2}$ The calling area consisted of all U.S. states, the District of Columbia, Canada, and some Caribbean Islands (includingPuerto Rico)—i.e., numbers not requiring a foreign country or city code. Additionally, 15 international cases for which we obtainedvalid phone numbers were attempted, yielding 6 completed interviews.

[^30]:    ${ }^{3}$ There were 18 cases which had been determined BPS-eligible in BPS:90/92 but were BPS:90/92nonrespondents because they answered no other information.
    ${ }^{4}$ Four sample members identified in BPS:90/92 as FTBs were actually non-FTBs and thus BPS-ineligible. Thenon-FTB rate among BPS:90/92 nonrespondents is considerably lower than that previously experienced among BPS:90/92 respondents; thisindicates, among other things, that "reentering" (older) students, who did not meet requirements for FTB determination, were easier to locate and interview during the fir\$ follow-up and that post-CATInon-FTB modeling done in BPS:90/92 appropriately excluded a fair number of actual non-FTBs from the group $\varsigma$ BPS:90/92 nonrespondents.
    ${ }^{5}$ For those identified as non-FTBs in the interview, the interview was terminated, and considered complete, as soon as they had completed that portion of Section A determining eligibility. Partial interview was defined as either confirming/updating the set of sclools attended in Section B or responding to the current status interview, which, by definition, are applicable only to confirmed FTBs.

[^31]:    ${ }^{6}$ Woodruff, R.S. (1971). "A Simple Method for Approximating the Variance ofa Complicated Estimate." Journal of the American Statistical Association 66, 411-414.
    ${ }^{7}$ Kovar, J.G., Rao, J.N.K., and Wu, C.F.J. (1988). "Bootstrap and Other Methods to Measure Errors in Survey Estimates."Canadian Journal of Statistics 16, Supplement, 25-45.

[^32]:    ${ }^{8}$ The BPS sample is not a simple random sample and, therefore, simple random sample techniques for estimating sampling error cannot be applied to these data. The DAS takes into account the complexity of the sampling procedures and calculates standard errors appropriate for such samples. The method for computing sampling errors used by the DAS involvesapproximating the estimator by the linear terms of a Taylor series expansion. The procedure is typically referred to as the Taylor series method.

[^33]:    ${ }^{9}$ The standard that $\mathrm{p} \leq .05 / k$ for each comparison is more stringent than the criterion that the significance level of the comparisons should sum to $\mathrm{p} \leq .05$. For tables showing the $t$ statistic required to ensure that $\mathrm{p} \leq .05 / k$ for a particular family size and degrees of freedom, see Olive Jean Dunn, "Multiple Comparisons Among Means,'Journal of the American Statistical Association 56: 52-64.

