

The For-Profit Postsecondary School Sector: Nimble Critters or Agile Predators?[†]

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Private for-profit institutions have become an increasingly visible part of the U.S. higher education sector. Within that sector, they are today the most diverse institutions by program and size, have been the fastest growing, have the highest fraction of nontraditional students, and obtain the greatest proportion of their total revenue from federal student aid (loan and grant) programs. They are, as well, the subjects of high-profile investigations and are facing major regulatory changes.

Today's for-profit postsecondary schools were preceded a century ago by a group of proprietary schools that were also responding to an explosion in demand for technical, vocational, and applied subjects. Business, managerial, and secretarial skills were in great demand in the late nineteenth and early twentieth centuries, and a multitude of proprietary institutions emerged that taught accounting, management, real estate, stenography, and typing. The numbers and enrollments of these institutions were greatly reduced when public high schools expanded and increased their offerings in the business and vocational areas. But many survived and morphed into some of the current for-profits, such as Blair College (established 1897; now part of Everest College), Bryant and Stratton College (1854),

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[†]To access the Appendix, visit <http://dx.doi.org/10.1257/jep.26.1.139>.
doi=10.1257/jep.26.1.139

Gibbs College (1911), Globe University (1885), Rasmussen College (1900), and Strayer University (1892).

Distance learning, known today as online education, also has an interesting past in “correspondence courses” that were offered by many universities beginning in the late nineteenth century including some of the most prestigious, such as the University of Chicago and the University of Wisconsin (Watkins 1991). Online education is today’s most rapidly growing part of higher education. Walden University, founded in 1970 and today one of the largest for-profit online institutions, pioneered online studies to allow working professionals to earn further degrees.

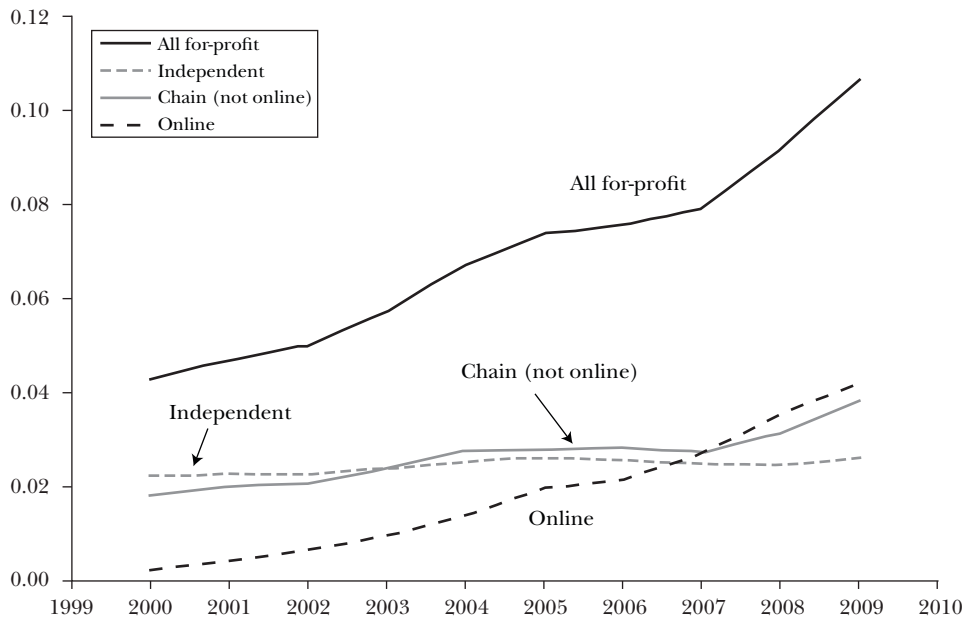
In this article, we describe the schools, students, and programs in the for-profit higher education sector, its phenomenal recent growth, and its relationship to the federal and state governments. As a starting point, for-profit postsecondary enrollments have grown considerably during the past several decades, particularly in degree programs and at large national providers with substantial online offerings. Fall enrollment in for-profit degree-granting institutions grew by more than 100-fold from 18,333 in 1970 to 1.85 million in 2009. During that same time period, total fall enrollment in all degree-granting institutions increased 2.4-fold from 8.58 million in 1970 to 20.43 million in 2009 (U.S. Department of Education, NECS, 2010, *Digest*, table 197). Thus, for-profit enrollment increased from 0.2 percent to 9.1 percent of total enrollment in degree-granting schools from 1970 to 2009. For-profit institutions for many decades also have accounted for the vast majority of enrollments in non-degree-granting postsecondary schools (those offering shorter certificate programs), both overall and among such schools eligible for federal (Title IV) student financial aid.

Figure 1 highlights the rise of for-profits in the enrollments of Title IV–eligible (degree and non-degree-granting) higher education institutions since 2000, a period when enrollment in the for-profit sector tripled while enrollment for the rest of higher education increased by just 22 percent. The solid dark line shows that the fraction of fall enrollments accounted for by the for-profits increased from 4.3 percent in 2000 to 10.7 percent in 2009. For the descriptive data presented here, we rely extensively on the Integrated Postsecondary Education Data System (IPEDS) of the U.S. Department of Education, which is an annual survey of all postsecondary institutions that participate in the federal student financial aid programs.¹

Under the solid dark line in Figure 1, the growth of the for-profit sector is broken down into “independent” schools, online institutions, and for-profit “chains.” We must first define these terms, because these categories are not designated in the official IPEDS data. “Independent” schools are defined here as

¹ An online Appendix available with this paper at (<http://e-jep.org>) provides the details of our processing of the micro IPEDS data, linkage of the IPEDS institution-year data to financial aid data from the National Student Loan Data System, and construction of an institution-level panel data set for 2000 to 2009.

Figure 1

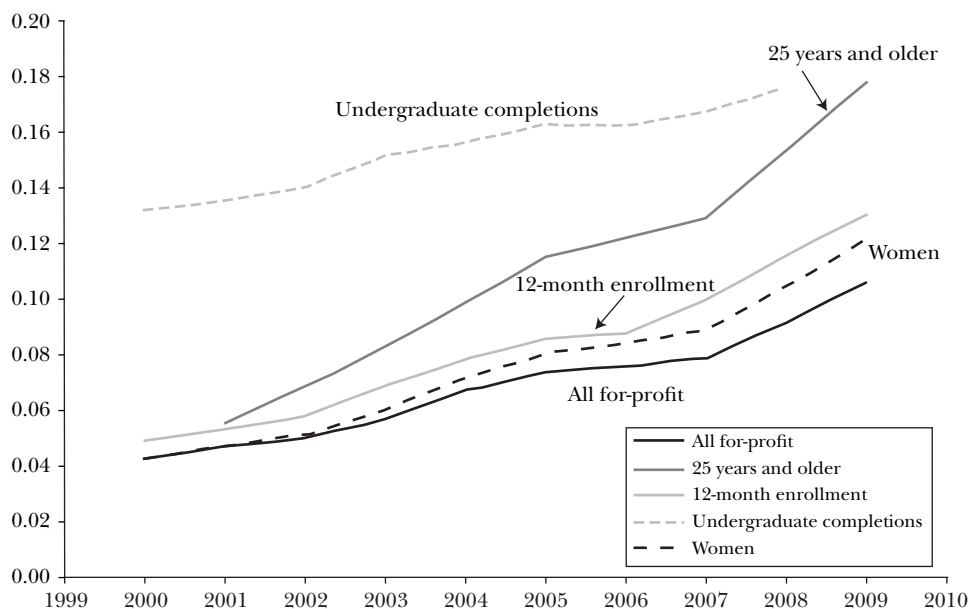
For-Profit Institution Share of Total Title IV Fall Enrollment: Total and by School Type, 2000 to 2009

Source: Integrated Postsecondary Education Data System (IPEDS).

Notes: A for-profit institution is classified as “online” if it has the word online in its name or if not more than 33 percent of the school’s students are from one U.S. state. The “chain (not-online)” category covers all other for-profit institutions that operate in more than one state or have more than five campus branches within a single state. The “independent” category includes for-profits that operate in only one state and have fewer than five campus branches. An online Appendix available with this paper at <http://e-jep.org> provides the details of our processing of the micro IPEDS institution-level data for 2000 to 2009.

those operating in no more than one state and having no more than five campus branches. A “chain” is a for-profit institution that operates in more than one state or has more than five campus branches within a single state. A for-profit is designated as online if it has the word “online” in its name or, more commonly, if no more than 33 percent of the school’s students are from one U.S. state. All online institutions are considered to be chains because they serve students in multiple geographic markets. Independent schools showed little increase in their share of overall enrollments in higher education from 2000 to 2009; chains with largely in-person enrollment showed a doubling over this period; and online institutions, typically part of national publicly traded companies, increased from almost nothing to become the largest part of the sector. Indeed, almost 90 percent of the increase in for-profit enrollments during the last decade occurred because of the expansion of for-profit chains.

Figure 2

For-Profit Share of Enrollments and Undergraduate Completions: 2000 to 2009

Source: Integrated Postsecondary Education Data System (IPEDS).

Notes: “All for-profit” is fall enrollment, that is enrollment at the beginning of the academic year; “12-month enrollment” = unduplicated enrollment during the entire year; “25 years and older” = fall enrollment of those 25 years and older; “women” = female fall enrollment; “undergraduate completions” = all undergraduate completions (certificates + associate’s degrees + bachelor’s degrees). The series for “25 years and older” is for the odd-numbered years and the even-numbered years are interpolated from those.

The rapid growth of the for-profits from 2000 to 2009 is illustrated in various ways in Figure 2. The for-profit share of enrollments (unduplicated headcount) over a 12-month period increased from 5 percent in 2001 to 13 percent in 2009. The 12-month enrollment measure better captures enrollments in for-profits than the standard fall enrollment measure because it includes students in less-conventional and short programs entered throughout the year.

For-profits have expanded their enrollment share more rapidly for women than for men, and they play an increasingly large role in the higher education of older students. The for-profit enrollment share of students 25 years and older expanded from around 6 percent in 2001 to 18 percent in 2009. Undergraduate completions from for-profit institutions grew from 13 percent of the total in 2000 to almost 18 percent in 2008. The fraction of completions is considerably larger than that for enrollments because more than half of for-profit completions are certificates and most certificate programs are no more than one year.

For-profit enrollments and completions in recent years have been growing most rapidly in longer degree programs. In the last decade, the for-profits increased their share of completers in all types of undergraduate programs, but more so for

AAs (associates' degrees) and BAs (bachelor's degrees) than for certificates. They produced about 39 percent of certificates in 2000 and 42 percent in 2008. For-profit AAs were 13 percent of all AAs in 2000 but 18 percent in 2008; BAs were less than 2 percent of all in 2000 but were 5 percent of all BAs in 2008 (U.S. Department of Education, NECS, 2010, *Digest*, table 195).

The current incarnation of the for-profit sector is big business; its largest providers are major, profitable, publicly traded corporations (Bennett, Lucchesi, and Vedder 2010). They appear to be nimble critters that train nontraditional learners for jobs in fast-growing areas, such as health care and information technology. On the other side, most of them depend on U.S. government student aid for the vast bulk of their revenues. Default rates on the loans taken out by their students vastly exceed those of other institutions of higher education, and audit studies have shown that some for-profits have engaged in highly aggressive and even borderline fraudulent recruiting techniques (U.S. Government Accountability Office 2010).

Are the for-profits nimble critters or agile predators? Using the 2004 to 2009 Beginning Postsecondary Students (BPS) Longitudinal Study, we assess outcomes of a recent cohort of first-time undergraduates who attended for-profits relative to comparable students who attended community colleges or other public or private nonprofit institutions. We find that relative to community colleges and other public and private nonprofits, for-profits educate a larger fraction of minority, disadvantaged, and older students, and they have greater success at retaining students in their first year and getting them to complete shorter degree and nondegree programs at the certificate and AA levels. But we also find that for-profits leave students with far larger student loan debt burdens. For-profit students end up with higher unemployment and "idleness" rates and lower earnings from employment six years after entering programs than do comparable students from other schools. Not surprisingly, for-profit students have trouble paying off their student loans and have far greater default rates. And for-profit students self-report lower satisfaction with their courses of study and are less likely to consider their education and loans worth the price-tag relative to similarly-situated students who went to public and private nonprofit institutions.

What is the For-Profit Postsecondary School Sector?

Apollo and the Lesser For-Profit Deities: A Diverse Sector

The for-profit postsecondary school sector, at its simplest level, is a group of institutions that give post-high school degrees or credentials and for which some of the legal "nondistribution requirements" that potentially constrain private nonprofit schools do not bind. For example, for-profit institutions can enter the equity market and have few constraints on the amounts they can legally pay their top managers. In practice, only the largest players in this market raise substantial capital in organized equity markets, and they tend to pay their top executives mega-salaries that exceed those of presidents at the public and nonprofit private universities.

Among the for-profits, Andrew Clark, chief executive officer of Bridgepoint Education, Inc., received more than \$20 million in 2009, while Charles Edelstein, co-chief executive officer of the Apollo Group, Inc., earned more than \$11 million.²

For-profit sector institutions are a varied group. For-profit schools offer doctorates but also nondegree courses, and their programs run the gamut from health care, business, and computers to cosmetology, massage, and dog grooming. The sector contains the largest schools by enrollment in the United States and also some of the smallest. For example, the University of Phoenix Online campus enrolled over 532,000 students, and Kaplan University enrolled 96,000 during the 2008–2009 academic year. Taken together, the largest 15 institutions account for almost 60 percent of for-profit enrollments (Bennett, Lucchesi, and Vedder 2010, table 1). But tabulations from the IPEDS also indicate that the median Title IV–eligible, for-profit institution had a Fall 2008 enrollment of 172 students as compared with 3,713 for the median community college (two-year public institution), 7,145 for the median four-year public university, and 1,149 for the median four-year, private not-for-profit school.

The for-profit sector has become in many people’s minds synonymous with the large for-profit chains that have rapidly expanded their presence in the BA and graduate education markets, especially the Apollo Group, which owns the University of Phoenix. But even though the big players in this sector do account for the majority of for-profit enrollments, another important part of the sector consists of career colleges that focus on a wide range of shorter AA and certificate programs. Completions in the for-profit sector are still dominated by certificate programs, and 55 percent of the certificates granted by the for-profits are awarded by the 1,700 or so independent career colleges and institutes. Our tabulations from the IPEDS indicate that certificates account for 54 percent of the degrees and awards conferred by for-profits in 2008–2009.

There are several important commonalities across this mixed group. The for-profit sector offers almost no general education and liberal arts programs. For-profit programs typically are not meant to prepare students to continue to another form of higher education, as is the case with most community colleges. Rather, the for-profits almost always offer training for a vocation or trade. In that sense, they are “career colleges.” In addition, virtually all the for-profits require that admitted students have a high school diploma or another secondary school credential such as a GED. Their ability to obtain federal (Title IV) financial aid for their students is typically contingent on their admitting primarily students who have already

² In higher education, nonprofits and publics are not that far behind in pay, just below the very top of the for-profit scale. In 2006/07, before the stock market decline, the highest paid university president was Gordon Gee at Vanderbilt who earned slightly more than \$2 million in total compensation. A bit lower down the scale, the tenth highest-paid CEO at a for-profit was Wallace Boston, Jr., CEO of American Public Education, with \$961,000, while number 10 among the presidents of public institutions on the list was Jack Varsalona at Wilmington University who earned \$974,000. After the stock market drop, earnings in 2008/09 for presidents at public and nonprofit private universities were far lower. The data on for-profit CEO pay is from *Chronicle of Higher Education* (2010); data on public and nonprofit president’s pay is from Gibson (2009).

completed secondary school. However, beyond requiring a high school degree, for-profit institutions are almost always nonselective and open admissions.

For-profit higher education is more likely to flourish in providing vocational programs that lead to certification and early job placement—programs that have clear short-run outcomes that can serve to build institutional reputation in the labor market. But the for-profits are likely to be in a far less advantageous position where external benefits (and subsidies from donors and government) are important and where the qualities of inputs and outputs are difficult to verify (Winston 1999). For-profits also have been successful at designing programs to attract nontraditional students who may not be well-served by public institutions (Breneman, Pusser, and Turner 2006).

What is Title IV Eligibility?

The for-profit sector that we analyze here includes almost exclusively those that are termed “Title IV eligible.” Because for-profits often cater to independent students and those from low-income families who finance college through Pell grants and federal student loans, they have an intricate relationship with the federal government to ensure they maintain eligibility to receive Title IV federal student aid. The for-profits, like public institutions of higher education, receive an extremely large fraction of their revenues from government sources.

Title IV eligibility is granted by the U.S. Department of Education and requires that the institution be accredited by at least one of their approved accrediting agencies, be registered by one of the states, and meet other standards on a continued basis. Some of these standards concern the length of programs and some concern students and their federal loan repayment activity. A Title IV–eligible, private for-profit school must either provide training for gainful employment in a recognized occupation or provide a program leading to a baccalaureate degree in the liberal arts (U.S. Department of Education 2011a). Our discussion excludes non–Title IV, for-profit schools, about which little has been known because the U.S. Department of Education does not track them. Virtually all degrees are granted by Title IV–eligible institutions, but programs that are less than two years in length that grant certificates (also diplomas) often are found at non–Title IV institutions. For an analysis of the importance of the non–Title IV group of for-profit schools using state registration data, see Cellini and Goldin (forthcoming). Because virtually all degree-granting institutions are Title IV–eligible, the undercount from limiting the analysis to Title IV schools impacts only the nondegree (typically certificate) programs in institutions without any degree program.

For-Profit Programs

The for-profits loom large in the production of degrees and certificates in certain programs. For-profits produce 18 percent of all associate’s degrees, but they produce 33 percent of the AAs granted in business, management, and marketing, 51 percent in computer and information sciences, 23 percent in the health professions, and 34 percent in security and protective services. In the public and nonprofit private sectors, an AA degree is often the gateway to a four-year college and, in consequence,

38 percent of these AA programs are in general studies and liberal arts programs. In the for-profits, a mere 2.4 percent are in general studies and liberal arts.

Although 5 percent of all BAs are granted by for-profit institutions, 12 percent of all BAs in business, management, and marketing are. Other large for-profit BA programs are in communications (52 percent of all BAs in communications are granted by for-profits), computer and information sciences (27 percent), and personal and culinary services (42 percent).

Certain programs are highly concentrated in the for-profit degree categories. Among AA degrees just two program groups—business, management, and marketing, and the health professions—account for 52 percent of all degrees. In the BA group, the business program produces almost 50 percent of the total. Among certificates granted in the Title IV for-profit sector, health professions and personal and culinary services account for 78 percent of certificate completers (U.S. Department of Education, NCES, 2009, tables 37 and 40; authors' tabulations from the IPEDS).

Who Are the Students?

The for-profit sector disproportionately serves older students, women, African-Americans, Hispanics, and those with low incomes. Table 1 looks at the characteristics of students in various types of institutions of higher education. African Americans account for 13 percent of all students in higher education, but they are 22 percent of those in the for-profit sector. Hispanics are 11.5 percent of all students but are 15 percent of those in the for-profit sector. Women are 65 percent of those in the for-profit sector. For-profit students are older: about 65 percent are 25 years and older, whereas just 31 percent of those at four-year public colleges are, and 40 percent of those at two-year colleges are.

Using the Beginning Postsecondary Students longitudinal survey data for students entering postsecondary school during the 2003–2004 academic year, we can get a more detailed picture of for-profit students relative to those at other colleges. Because the BPS surveys only first-time undergraduates, the results are somewhat different from the IPEDS, which surveys institutions about all students. But the storyline remains the same.

Compared with those in community colleges (almost entirely two-year public schools), for-profit students are disproportionately single parents, have much lower family incomes, and are almost twice as likely to have a General Equivalency Degree (GED). Among for-profit students in the Beginning Postsecondary Students data, 55 percent are in certificate programs and just 11 percent are enrolled in a BA program. Similarly, among all for-profit students in the IPEDS, certificates are 54 percent of all completions or degrees conferred, and associates are 22.5 percent (U.S. Department of Education, NECS 2010, *Digest*, table 195). The BA group is just 13 percent but is the fastest-growing degree group among the for-profits. Postgraduate programs, primarily master's degrees, account for the remaining 10.5 percent.³

³ We should note that the comparison between enrollments in the Beginning Postsecondary Students data and completions in the IPEDS is generally not valid when programs vary in length. But because the

Table 1

Student Characteristics from the BPS and IPEDS for For-Profits, Two-Year Public Colleges, and Four-Year (Nonprofit) Colleges

<i>Student characteristics by IPEDS institution type, 2009/2010</i>				
	<i>For-profit institutions</i>	<i>2-year public colleges</i>	<i>4-year public colleges</i>	<i>4-year private nonprofit colleges</i>
Female	0.651	0.570	0.552	0.576
African-American	0.221	0.136	0.109	0.104
Hispanic	0.150	0.157	0.105	0.093
Full-time	0.579	0.410	0.733	0.742
Age 25 years and over	0.651	0.404	0.306	0.392
Federal loans per student	11,415	759	3,512	5,769
Pell Grant per student	2,370	773	738	632
Tuition (in-state)	13,103	2,510	5,096	24,470
Number of institutions	2,995	1,595	690	1,589

<i>BPS 2004–2009 sample characteristics</i>			
	<i>For-profit institutions</i>	<i>Community colleges</i>	<i>4-year public and nonprofit colleges</i>
Female	0.659	0.564	0.558
African-American	0.248	0.140	0.141
Hispanic	0.264	0.159	0.103
Age	24.4	23.8	19.5
Single parent	0.288	0.124	0.030
Delayed enrollment after high school	0.576	0.481	0.142
High school diploma	0.754	0.852	0.947
GED	0.172	0.095	0.022
Mother high school dropout	0.224	0.137	0.055
2003 family income if a dependent	36,854	60,039	76,509
2003 family income if independent	17,282	31,742	78,664
Enrolled full-time	0.809	0.460	0.903
Worked while enrolled, 2003–2004	0.635	0.755	0.499
Enrolled in a certificate program	0.551	0.072	0.015
Enrolled in an AA program	0.326	0.774	0.061
Enrolled in an BA program	0.106	0	0.891
Expects to earn a BA	0.643	0.799	0.980
Sample size (unweighted)	1,950	5,970	8,760

Sources: BPS:04/09, or Beginning Postsecondary Students Longitudinal Study data for 2003–2004 first-time beginning postsecondary students in their first, third, and sixth years since entering an undergraduate institution, through 2009; and Integrated Postsecondary Education Data System (IPEDS) data.

Notes: Community colleges include two-year public and private nonprofit institutions. Unweighted sample sizes in the BPS data are rounded to the nearest 10. The IPEDS tabulations cover the (undergraduate and graduate) enrollments of Title IV institutions in Fall 2009. The BPS tabulations cover beginning postsecondary students entering a Title IV institution in the 2003–2004 academic year.

BPS surveys a cohort, the comparison has greater validity.

The Business Model of the For-Profit Sector

For-profit chains led by online institutions experienced phenomenal growth in the past several decades. The growth has been largely due to an extension of a business model that has emphasized the special client base of the for-profits combined with the ability to “clone” successful programs using web technology and the standardization of curriculum for traditional in-person courses. In this section, we turn to the financial and business aspects of the for-profits. For more detail on the business strategies of for-profit colleges, the interested reader might start with Breneman, Pusser, and Turner (2006) and Hentschke (2010).

The expansion of the chains (including online institutions) accounts for 87 percent of the increase in fall enrollment during the past decade. The increase in online enrollment alone accounts for 54 percent of the total. The rise of the chains is responsible, as well, for 80 percent of the increase in federal loan and grant volumes of the for-profits. For-profit chains and online programs also benefit from economies of scale in advertising and recruitment costs.

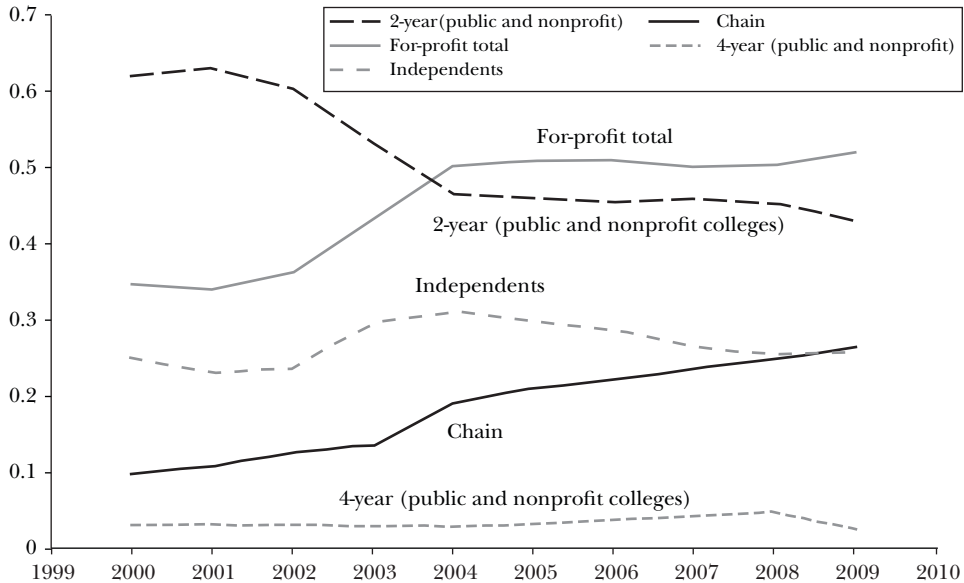
Client Base and Recruiting

The Title IV–eligible, for-profit sector receives the majority of its revenues from federal financial aid programs in the form of loans and grants to their students. For-profits appeal to older individuals who are simultaneously employed and in school or taking care of family members. Some of the for-profits offer services, such as child care, to deter enrollees from dropping out, especially during the period when the student can get a refund and to minimize the institution’s dropout rate to maintain accreditation (for example, Rosenbaum, Deil-Amien, and Person 2006). The for-profits are attractive to nontraditional students, many of whom are low income, require financial aid, and need help filling out aid forms. For-profits often give generous transfer credit to students who began their BAs at other institutions.

For-profit institutions devote substantial resources to sales and marketing. Advertising in 2009, as demonstrated in one study of 13 large national chains, was around 11 percent of revenue. Sales and marketing (including advertising) for this group was around 24 percent of revenue. In consequence, the average new student recruit costs one of the large national chains about \$4,000 (Steinerman, Volshteyn, and McGarrett 2011).⁴ Annual tuition at for-profit institutions was about \$16,000 for a BA program, \$15,000 for an AA program, and \$13,000 for a certificate program in 2010–11, as compared to average undergraduate tuition of about \$7,000 at public four-year institutions for in-state students and \$16,000 for out-of-state students, and \$22,000 for private nonprofit schools (Knapp, Kelley-Reid, and Ginder 2011, table 3).

⁴ The large national chains in the study are American Public Education, Apollo Group, Bridgepoint Education, Capella Education, Career Education, Corinthian Colleges, DeVry Inc., Education Management, Grand Canyon Education, ITT Educational Services, Lincoln Education, Strayer Education, and Universal Technical Institute.

Figure 3

Enrollment in Allied Health Fields by Type Institution

Source: Integrated Postsecondary Education Data System (IPEDS).

Note: “4-year (public and nonprofit colleges)” = public and private nonprofit four-year institutions; “2-year (public and nonprofit colleges)” = two year public (community colleges) and two-year private nonprofit colleges; “independents” = for-profit independent (non-chain) institutions; “chain” = for-profits institutions with “online” in the school name or that operate in more than one state or that have more than five campus branches in a single state.

Responsiveness to Markets

For-profits cater to the expanding market of nontraditional students, develop curriculum and teaching practices to be able to provide identical programs at multiple locations and at convenient times, and offer highly-structured programs to make timely completion feasible (Hentschke 2010). For-profits are attuned to the marketplace and are quick to open new schools, hire faculty, and add programs in growing fields and localities. For example, Turner (2006) finds that change in for-profit college enrollments are more positively correlated with changes in state college-age populations than are changes in public sector college enrollments.

For-profits are less encumbered than public and nonprofit schools by physical plant, alumni, and tenured faculty. Take the expanding health profession fields, for example. Enrollment in programs involving the health professions doubled from 2000 to 2009. In the for-profit sector, it tripled, whereas in all other postsecondary institutions it increased by 1.4 times. In consequence, the fraction of enrollment in the allied health fields in the for-profits increased from 35 percent to 52 percent, as illustrated in Figure 3. The increase in such enrollments at the national and regional chains accounts for almost the entire 17 percentage point increase.

Looking more closely at these programs, the for-profits have rapidly entered the growing fields of medical assisting, phlebotomy, x-ray and ultrasound technicians, practical nursing, and even registered nursing. The total number of AA degrees in the health professions doubled during the past decade, but degrees in this area from for-profits quadrupled, with degrees from the large for-profit chains rising by a multiple of six. A similar pattern arises for certificates in the health professions, where for-profit national and regional chains more than tripled their awards from 2000 to 2009 at a time when the public sector only more than doubled theirs.

Online Education

Online education fits many of the features of the for-profit business model. For example, it attracts older students who need to combine work with schooling and appeals to students who do not want to learn on the academic calendar. (There is even a popular advertisement: “Earn your college degree in your pajamas.”) Much of the growth of for-profits during the last decade has been in schools emphasizing online programs, as seen in Figure 1.

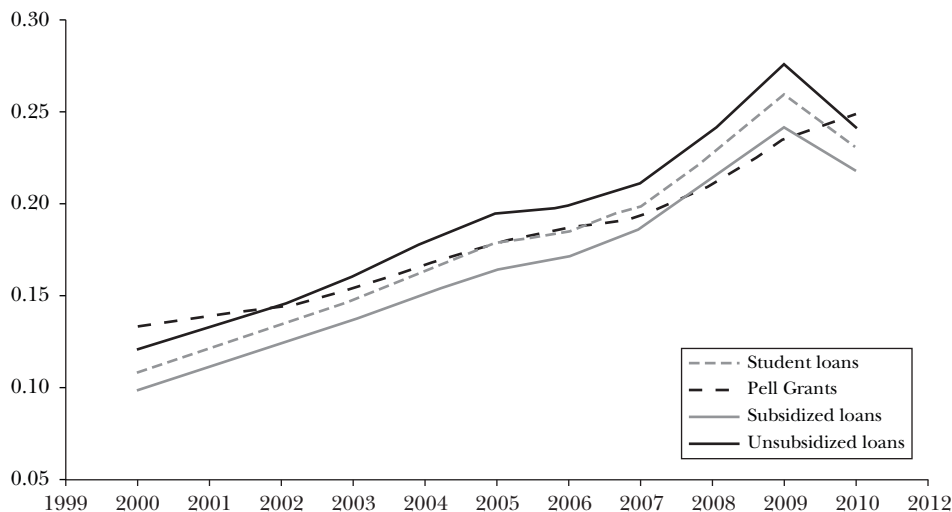
Some of this increase was due to U.S. Department of Education regulatory changes. Prior to 1998, a Title IV–eligible institution could not have more than half of its enrollment in distance education. Then in 1998, the Higher Education Act authorized the U.S. Department of Education to grant waivers to promote new advances in distance education. By the early 2000s many of the larger chains were granted waivers, and the limit on share of enrollment in distance education was dropped. The regulatory change in 2005 spurred the growth of dedicated online institutions. By 2007–2008, 12 percent of undergraduates and 25 percent of graduate students at for-profits took their entire program through distance education as compared with less than 3 percent for undergraduates and 8 percent for graduate students at public and private nonprofit institutions combined (U.S. Department of Education, NCES, 2011, tables A-43-1 and A-43-2).

Federal Student Financial Aid

Federal student financial aid is the lifeblood of for-profit higher education. Federal grants and loans received under Title IV of the Higher Education Act accounted for 73.7 percent of the revenues of Title IV–eligible, private for-profit higher education institutions in 2008–09 (based on data in U.S. Department of Education, Federal Student Aid Data Center 2011). Under current regulations, for-profit schools can derive no more than 90 percent of their revenue from Title IV financial aid sources to maintain Title IV eligibility, and the constraint comes close to binding for many for-profits. In fact, 30 percent of for-profit institutions, including many of the largest national chains such as the University of Phoenix and Kaplan University, received more than 80 percent of their revenues from federal Title IV student aid in 2008–2009. These Title IV revenue figures actually understate the importance of federal student aid to for-profit institutions since they do not include military educational benefits provided to veterans and active service members, which do not count

Figure 4

For-Profit Share of Federal Financial Aid (Pell Grants and Student Loans): 2000 to 2010



Source: National Student Loan Data System (NSLDS).

Note: Student loans include subsidized and unsubsidized federal student loans under the Federal Family Education Loan (FFEL) and Direct Loan Programs.

towards the limit of 90 percent federal Title IV student aid revenues. The for-profits have, in consequence, actively recruited military benefit recipients—veterans, service members, and their family members—especially under the Post-9/11 GI Bill of 2008. For-profits accounted for 36.5 percent of the benefits paid under the Post-9/11 GI Bill during the first year of the program (Health, Education, Labor and Pensions Committee 2010, p. 4).

For-profit institutions receive a disproportionate share of federal Title IV student financial aid both because they have higher tuition and fees than public institutions and because they attract large numbers of students who are financially independent or come from low-income families. For-profits accounted for 24 percent of Pell grant disbursements and 26 percent of federal student loan disbursements in 2008–2009 even though they enrolled 12 percent of the students (authors' tabulations from the IPEDS and NSLDS). Half of undergraduates at for-profit schools received Pell grants, as compared with 25 percent at public and private nonprofit institutions combined.

The sharp increase in the enrollments at for-profit schools has been accompanied by a rapid rise in their share of federal student financial aid from 2000 to 2010, as shown in Figure 4. The for-profit share of Pell grants increased over the last decade from 13 to 25 percent and their share of total federal student loans (both

subsidized and unsubsidized loans) increased from 11 percent in 2000 to 26 percent in 2009 before dipping to 23 percent in 2010.⁵

Of course, public sector institutions receive direct taxpayer support largely from state government appropriations, enabling tuition and fees to be lower than they otherwise would be. If federal student loans to students at for-profits are repaid, taxpayer costs are actually lower to finance education in for-profits than in public sector institutions. But the comparison is not quite apples-to-apples. The rationale for subsidies to public institutions and private nonprofit schools is that they produce research with potentially large spillover benefits and that they educate students in the liberal arts and other fields that may improve civil society and generate external benefits. Also, loans to students attending for-profits often do not get repaid.

Default Rates

Students from for-profit institutions have higher default rates on federal student loans than students in other sectors. And the default rates of for-profits have risen substantially during the last five years.⁶

The two-year “cohort default rate” measures the percentage of borrowers who enter repayment of federal student loans (by leaving a program through graduation or dropping out) during a fiscal year and default prior to the end of the next fiscal year. An institution loses Title IV eligibility if its two-year cohort default rate exceeds 25 percent for three consecutive years or is 40 percent in any one year. The two-year cohort default rate of for-profit institutions was 11.6 percent for fiscal year 2008 as compared with 6 percent for public institutions and 4 percent for private nonprofits. The U.S. Department of Education is moving to a three-year cohort default rate standard for maintaining Title IV eligibility in fiscal year 2012. Three-year cohort default rates for fiscal year 2008 were 24.9 percent for for-profits, 7.6 percent for private nonprofits, and 10.8 percent for public institutions (Steinerman, Volshteyn, and McGarrett 2011). The sharp increase in default rates from a two- to a three-year window may, to some extent, reflect incentives for institutions to minimize defaults within the current two-year regulatory window. Thus, three-year default rates also are likely to provide a more realistic indicator of long-run loan repayment rates than the two-year default rates.⁷

We examine the role of student demographics, financial aid take-up, and institutional characteristics (degree types, distance education, remedial course offerings, and student services) in explaining the higher federal student loan default rates of

⁵ The slight decline in the for-profit share of loans in 2010 may reflect the shift from the Federal Family Education Loan program with bank lending under federal guarantees to the Direct Loan program where the federal government makes the loans directly to students.

⁶ Current default rates at for-profits, however, remain lower than in the late 1980s and early 1990s before the 1992 amendments to the Higher Education Act that tightened institutional eligibility for Title IV funds and removed many nondegree proprietary schools with very high default rates from the Title IV financial aid programs (Bennett, Lucchesi, and Vedder 2010).

⁷ Furthermore, since federal Stafford loans have an initial 6-month grace period and can be up to 360 days delinquent before being considered in default, the two-year default rates typically cover a much shorter window in which a recorded default is possible.

for-profit institutions. Figure 5 graphs (regression-adjusted) differences in three-year cohort default rates by type of institution. The differences are computed from regressions of default rates on institution type (with public four-year institutions as the base group) including year dummies plus successive additions of controls for student and institution characteristics, geography, and school selectivity for pooled institution-year data covering the 2005 to 2008 fiscal years.

The raw default rates and those regression-adjusted for institutional and student characteristics are highest for the for-profit schools, followed by community colleges and then four-year public and nonprofit institutions. The unadjusted 11 percentage point higher three-year cohort default rates for for-profits (column 1) relative to the base group of four-year public institutions is reduced slightly to 10.5 percentage points with the addition of detailed controls for student demographics, institutional characteristics, and city fixed effects (columns 2 and 3) despite the fact that these controls explain a substantial fraction of the cross-institution variation in default rates. The addition of the covariates modestly expands the for-profit default rate gap relative to community colleges.

The for-profit default rate is 8.7 percentage points higher than that for four-year publics and nonprofits and 5.7 percentage points higher than for community colleges even when the sample is limited to nonselective (open admission) institutions (column 4). Higher three-year cohort default rates are apparent for all segments of the for-profit sector, including independent schools, regional chains, national chains, and largely online institutions (see Appendix Table 1, available online with this paper at (<http://e-jep.org>)). National chains have higher default rates and online institutions lower default rates relative to all for-profits.

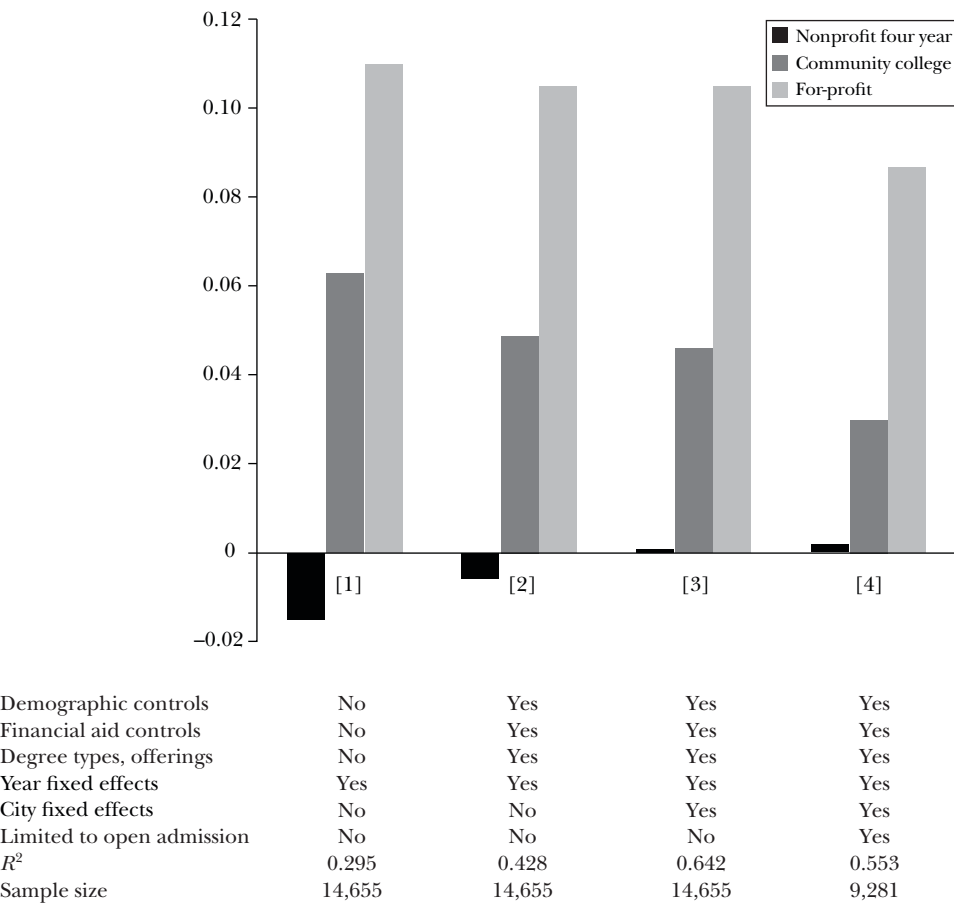
For-profit institutions account for a large and rising share of federal financial aid. For-profit students have much higher default rates than those at other schools even adjusting for differences in student characteristics. In the most recent data, they account for 47 percent of defaults. In addition, default rates have been rising particularly for the for-profit chains.

Student Outcomes

The large increase in federal student aid dollars flowing to for-profits has attracted substantial scrutiny about the quality of their programs and whether they provide students with sufficient skills to enable them to thrive in the labor market and be able to pay off their student debts (for example, Baum 2011). Simple comparisons of student outcomes between the for-profits and other institutions may be misleading: after all, the for-profits disproportionately attract minority, older, independent, and disadvantaged students. Thus, we assess student outcomes of the for-profits relative to other higher education institutions after adjusting for observable differences in students who have attended different types of schools.

The recent and rapid growth of for-profit colleges means that most of the standard individual-level longitudinal data sets do not identify those who went to

Figure 5
Differences in Three-Year Cohort Default Rate by Type of Institution: 2005 to 2008



Sources: National Student Loan Data System (NSLDS) and Integrated Postsecondary Education Data System (IPEDS).

Notes: Each bar gives the coefficient on a type of institution from a regression where the dependent variable is the three-year cohort default rate for an institution-year observation and the omitted group is four-year public institutions. The sample covers institution-year observations for the fiscal years 2005 to 2008. Demographic controls are fractions part-time, 25 years and older, female, African American, and Hispanic. Financial aid controls are the number of recipients of Pell grants and subsidized and unsubsidized federal loans, total yearly disbursement amounts for each, and total loans and Pell grants per enrollee. Degree types and offerings are indicators for distance education, remedial course offerings, whether the institution offers assistance with job placement, whether it offers part-time employment services for enrolled students, the highest award or degree offered by the institution, and whether it has open admissions. Standard errors are clustered by institution. Table 1 in an online Appendix, available with this paper at (<http://e-jep.org>), provides the full regression, standard errors, and the effect of separating the for-profits into the subcategories of independents, regional chains, national chains, and online institutions.

for-profit institutions or do not have large enough samples of for-profit students for a meaningful analysis. To overcome these constraints we use the most recent cohort of the Beginning Postsecondary Students Longitudinal Study, known as BPS:04/09. A sample of 2003–2004 first-time beginning postsecondary students are followed, in their first, third, and sixth years since entering an undergraduate institution, up through 2009. Because it covers a recent cohort, a significant fraction of the sample initially enrolled in a for-profit institution. The BPS has detailed student background variables, low attrition rates, and an oversample of students at for-profit institutions yielding approximately 1,950 students starting at for-profits out of a total of about 16,680 students in our main sample.⁸

The Beginning Postsecondary Students data is representative of first-time postsecondary students (those starting an undergraduate program with no previous postsecondary schooling). But because a large fraction of students in for-profit institutions are older, nontraditional students returning to higher-education, they will not be picked up in this sample. Thus, our analysis estimates the for-profit school treatment effect (relative to other types of institutions) for first-time postsecondary students but not for the large group of returning students.

The outcome variables in the Beginning Postsecondary Students data are divided into two major groups. Those concerning college costs and financial aid are given in Table 2, and those regarding student persistence, educational attainment, employment, earnings, and satisfaction with the program are in Table 3. The raw data, given in columns 1–3 of Tables 2 and 3, reveal that beginning postsecondary students at for-profits accumulate larger student debt burdens, are more likely to default on their student loans, have poorer employment outcomes five years after entering postsecondary school, and are less likely to be satisfied with their course of study than students starting at public or private nonprofit schools. The short-run (one-year) dropout rate is slightly lower for starting for-profit students than those starting in a community college. For-profit students in certificate and AA programs have higher completion rates than community college students. In contrast, BA completion rates of for-profit students are much lower than of those starting in four-year public and nonprofit schools.

Using the Beginning Postsecondary Students data, we assess whether the raw mean student outcome differences have been overstated because for-profit students differ from those in the public and the private nonprofit sectors (as was demonstrated in the bottom panel of Table 1). To do this, we adjust the raw outcomes for differences in baseline observables between for-profit students and others using two methods.

⁸ We use the sampling weights from the Beginning Postsecondary Students data in all our analyses to account for the variation in sampling rates among different student subgroups. The attrition rates from the BPS:04/09 by the final 2009 survey round are relatively balanced by starting institution at 6.4 percent for students from for-profits, 10.9 percent for community college students, and 10.7 percent for students from four-year public and nonprofit schools. The differences in attrition rate by starting institution type are small and not statistically significant after conditioning on baseline covariates. Unweighted sample sizes are rounded to the nearest 10.

Table 2

Differences in College Costs and Financial Aid between For-Profit Institutions and Other Schools for First-Time Undergraduates: 2004/2009 Beginning Postsecondary Students Longitudinal Study

<i>Dependent variables</i>	<i>Beginning postsecondary students (full sample)</i>				
	<i>Dependent variable means</i>			<i>For-profit institution impact</i>	
	<i>4-year public and nonprofits (1)</i>	<i>2-year public and nonprofits (2)</i>	<i>For-profits (3)</i>	<i>OLS (4)</i>	<i>Matching (5)</i>
<i>College costs and financial aid, 2003–2004</i>					
Applied for aid (share)	0.895	0.749	0.986	0.094 (0.010)	0.072 (0.011)
Title IV loan and grant aid (\$)	3,837	1,022	6,852	4,439 (183)	3,417 (164)
Tuition (\$)	9,230	1,269	8,434	5,632 (173)	5,108 (201)
Net tuition minus grants (\$)	5,183	734	5,573	4,521 (157)	4,418 (158)
Pell grant (\$)	0.285	0.294	0.790	0.190 (0.014)	0.061 (0.020)
Pell grant amount (\$)	771	633	2,149	557 (48)	180 (68)
<i>Financial aid through 2009</i>					
Cumulative Pell grant (\$)	2,923	2,399	4,084	–170 (146)	–852 (223)
Cumulative Title IV borrowing (\$)	8,702	3,502	7,699	3,960 (421)	2,239 (381)
Title IV loan balance in 2009 (\$)	8,024	3,306	7,460	4,071 (460)	2,242 (401)
Repaid any amount on loan, conditional on a student loan (share)	0.642	0.640	0.529	–0.093 (0.029)	–0.040 (0.046)
Defaulted on loan, conditional on a student loan (share)	0.035	0.056	0.188	0.067 (0.018)	0.082 (0.018)
Sample size	8,760	5,970	1,950		

Source: BPS:04/09 Restricted-Use Data File. BPS:04/09 is Beginning Postsecondary Students Longitudinal Study data for 2003–2004 first-time beginning postsecondary students in their first, third, and sixth years since entering an undergraduate institution, through 2009.

Notes: The ordinary least squares (OLS) column reports coefficient estimates (robust standard errors) for a for-profit institution dummy variable in regressions for each dependent variable, estimates that include the following covariates: dummy variables for race, sex, citizenship, born in the United States, parents born in the United States, English as the native language, household size, distance of school from home, lives with parents, marital status, single parenthood, independent student, number of kids, use of child care, maternal and paternal education categories, high school diploma, GED receipt, delayed enrollment after high school, certificate or degree program, degree expectations, region, and on- or off-campus residence; and second-order polynomials in age, prior income (own for independent students and family for dependent students), household income percent of the poverty line, expected family contribution from the FAFSA (Free Application for Federal Student Aid), individual adjusted gross income from tax returns and government transfers. Each number in the “Matching” column represents the average treatment on the treated estimate (standard error) for going to a for-profit institution using from nearest neighbor (propensity score) matching with replacement and excluding observations outside of common support. The same covariates used in the ordinary least squares regressions were used for the matching models. The ordinary least squares and matching model estimates use the BPS sampling weights. Unweighted sample sizes are rounded to the nearest 10.

Table 3

Differences in Student Outcomes between For-Profit Institutions and Other Schools for First-Time Undergraduates: 2004/2009 Beginning Postsecondary Students Longitudinal Study

Dependent variables	Beginning Postsecondary Students (full sample)				
	Dependent variable means			For-profit institution impact	
	4-year public and nonprofits (1)	2-year public and nonprofits (2)	For-profits (3)	OLS (4)	Matching (5)
<i>Persistence and educational attainment</i>					
Left school in 2003–2004 (share)	0.062	0.233	0.212	–0.046 (0.016)	–0.051 (0.018)
Attained certificate (if enrolled in certificate program; share)	—	0.424	0.537	0.086 (0.036)	0.046 (0.034)
Attained AA (if enrolled in AA program; share)	—	0.224	0.284	0.041 (0.028)	0.019 (0.029)
Attained AA or more (if enrolled in AA program; share)	—	0.283	0.291	–0.006 (0.028)	–0.016 (0.030)
Attained BA (if enrolled in BA program; share)	0.658	—	0.262	–0.115 (0.045)	–0.194 (0.052)
Idle (not employed, not enrolled) at 2009 survey (share)	0.106	0.133	0.236	0.052 (0.017)	0.058 (0.017)
Enrolled in 2009 (share)	0.271	0.389	0.216	–0.114 (0.018)	–0.080 (0.019)
<i>Employment and earnings (for those no longer enrolled in 2009)</i>					
Any job in 2009 (share)	0.839	0.784	0.706	–0.028 (0.021)	–0.031 (0.022)
Earnings from work in 2009 (\$)	28,613	24,795	19,950	–1,771 (931)	–1,936 (950)
Earnings from work in 2009, conditional on employment (\$)	34,080	31,622	28,243	–1,355 (934)	–243 (937)
Unemployed and seeking work (share)	0.121	0.148	0.232	0.048 (0.019)	0.067 (0.020)
Unemployed 3 months or more after leaving school (share)	0.238	0.259	0.404	0.077 (0.022)	0.084 (0.023)
Earnings less than gainful employment standard (share)	0.135	0.046	0.271	0.194 (0.019)	0.147 (0.017)
<i>Course content and job and school satisfaction</i>					
Remedial coursework in 2003–4 (share)	0.181	0.289	0.076	–0.180 (0.015)	–0.187 (0.017)
Left school because dissatisfied (2003–2004) (share)	0.012	0.024	0.081	0.043 (0.009)	0.048 (0.009)
Left school because dissatisfied (2003–2006) (share)	0.032	0.051	0.117	0.052 (0.013)	0.053 (0.011)
Education was worth the cost (share)	0.802	0.821	0.648	–0.204 (0.019)	–0.179 (0.017)
Loans were a worthwhile investment (share)	0.836	0.803	0.664	–0.143 (0.022)	–0.121 (0.024)
Satisfied with major or program (share)	0.860	0.871	0.789	–0.097 (0.017)	–0.065 (0.015)
Satisfied with current job, (employed, not enrolled; share)	0.772	0.764	0.752	–0.011 (0.025)	–0.032 (0.023)
Sample size	8,760	5,970	1,950		

Source and Notes: See Table 2.

The first method is a standard ordinary least squares regression of student outcomes on a rich set of covariates of student baseline characteristics at entry into college (listed in the table notes), and a dummy variable for starting postsecondary schooling in a for-profit institution. The alternative method is a matching approach, which takes students starting in for-profits as the treatment group and students starting in public and private nonprofit schools as the control group. We compare the outcomes of the for-profit students to the control group members who are observably comparable to for-profit students. More specifically, we estimate the average treatment-on-treated effect of starting in a for-profit institution using nearest neighbor (propensity score) matching models with replacement excluding observations outside of common support.⁹ For educational attainment outcomes, the estimation samples are separated into the subgroups of students initially enrolled in each type of program (certificate, AA, BA).

The ordinary least squares results are shown in column 4 for the full sample and those for the matching estimator are in column 5 of Tables 2 and 3. The ordinary least squares and matching approaches produce qualitatively and quantitatively similar estimates for almost every outcome considered.

Our conclusions with regard to the relative performance of students starting in for-profit institutions are mixed. For-profit students have a higher probability of staying with a program through its first year. Early persistence translates into a higher probability of obtaining a degree or certificate in a one- or two-year program. The ordinary least squares estimates indicate that certificate seekers starting at for-profits are almost 9 percentage points more likely to gain a certificate than community college students. Although for-profit students seeking an AA are somewhat more likely than community college students to attain an AA degree, they are less likely to continue to higher-level college courses and to gain a BA degree. The matching estimates indicate that the for-profit advantage in completing certificate and AA programs is more modest and less statistically significant than the ordinary least squares estimates.

Students in for-profit institutions are also much less likely to report taking remedial courses in their first year in postsecondary school than students in other institutions. The greater ability of for-profit students to take courses they consider directly relevant and not languish in remedial courses may play a role in their greater first-year retention rates.¹⁰

For the longer undergraduate programs, such as BA, for-profits do not fare as well as four-year public and private nonprofit institutions. The ordinary least squares estimate implies a 12 percentage point completion deficit and the matching

⁹ We implement the nearest-neighbor matching estimator in STATA using the routines developed by Becker and Ichino (2002).

¹⁰ See Rosenbaum, Deil-Amien, and Person (2006) for rich case study evidence of the roles of clearer program paths, more relevant courses, and student services in better retention and short program completion rates for students in for-profit schools relative to community colleges. Rutschow and Schneider (2011) summarize recent evidence from interventions designed to improve students' progress through remedial courses at community colleges.

model implies a 19 percentage point deficit for students starting BA programs at for-profits. The control group of students in the full range of public and private nonprofit four-year schools is probably less comparable in the case of BA students than for certificate and AA programs. But even when the sample is restricted to students starting in nonselective schools, a statistically significant deficit of almost 5 percentage points remains (details in Appendix Table 2, available online with this paper at <http://e-jep.org>).¹¹

Also, for-profits leave students with considerably higher debt, even conditional on a rich set of observables. For-profit students face higher sticker-price tuition and pay higher net tuition (tuition plus fees minus grants) than comparable students at other institutions. Students who began at a for-profit school default on their loans at higher rates than other students conditional on controls for demographics, academic preparation, and pre-enrollment family resources. For-profit students have substantially higher default rates even when comparing students across school types with similar cumulative debt burdens. For example, the default rate by 2009 for the BPS:04/09 students with \$5,001 to \$10,000 in cumulative federal student loans is 26 percent for students from for-profits versus 10 percent for those from community colleges and 7 percent for those from four-year public and nonprofit schools; and for those with \$10,001 to \$20,000 in debt, the default rate among for-profit students is 16 percent versus a 3 percent rate for community college students and 2 percent rate for other four-year college students.

Although the vast majority of students from for-profits express satisfaction with their course of study and programs, they report significantly lower satisfaction than observably similar students starting in public and nonprofit schools. Students who began in for-profit colleges are also less likely to state that their education was worth the amount they paid and are less apt to think their student loans were a worthwhile investment. Even though the for-profits have higher short-run retention of students, their students are more likely to leave their certificate or degree programs before completion because of dissatisfaction with the program.

In terms of economic outcomes in the medium-run, for-profit students are more likely to be idle (that is, not working and no longer enrolled in school) six years after starting college. Among the students who left school by the 2009 wave of the BPS survey, those from for-profits are more likely to be unemployed and to have experienced substantial unemployment (more than three months) since leaving school. For-profit students no longer enrolled in 2009 have earnings from work in 2009 that are \$1,800 to \$2,000 lower (or 8 to 9 percent of their predicted mean earnings) than had they gone to another type of institution.¹² Some of the earnings

¹¹ In addition, Appendix Tables 3 to 5 present comparable analyses for the full range of student outcomes for the subsamples of Beginning Postsecondary Students starting certificate programs, AA programs, and BA programs respectively.

¹² In slight contrast, Cellini and Chaudhary (2011) find similar weekly earnings gains of around 6 percent to attending a two-year AA program at a private or public two-year college and of 15 to 17 percent (or 8 percent per year of education) to completing an AA degree at private postsecondary institutions (largely for-profit schools) and at public institutions (largely community colleges) using an individual fixed effects

reduction is due to lower rates of employment. Once we condition on employment, for-profit students have modestly lower earnings and slightly lower job satisfaction, but neither difference is statistically significant.

For-profit schools, therefore, do better in terms of first-year retention and the completion of shorter certificate and degree programs. But their first-time postsecondary students wind up with higher debt burdens, experience greater unemployment after leaving school and, if anything, have lower earnings six years after starting college than observationally similar students from public and nonprofit institutions. Not surprisingly, for-profits students end up with higher student loan default rates and are less satisfied with their college experiences.

Lower satisfaction with the programs may provide an additional psychological factor accounting for the high default rates of for-profit students, even for those with modest absolute student debt levels. In fact, students in this dataset from for-profits with less than \$2,500 in federal student loan debt had a default rate of 20 percent by 2009 as compared with 12 percent for students from community colleges and 4 percent for those from four-year public and nonprofit institutions. These patterns are troubling since the consequences of federal student loan default cannot be escaped through bankruptcy and can adversely impact an individual's credit rating and future access to credit, not to mention result in wage garnishment, harassment by private collection agencies, and tax refund offsets.

Although we have used the detailed background covariates in the Beginning Postsecondary Students survey data to make comparisons between individuals who are as similar as can be observed, we do not have quasi-experimental variation concerning who goes to which type of higher-education institution. Thus, one needs to be cautious in providing a causal interpretation of the estimated for-profit school treatment effects in Tables 2 and 3 since the potential problem of selection bias from nonrandom sorting on unobservables remains. Furthermore, our comparison of the medium-term outcomes for beginning postsecondary students starting at for-profits versus comparable students starting at other higher-education institutions does not directly provide information on whether attendance at a for-profit college (or, for that matter, attendance at public or private, nonprofit colleges) is a worthwhile (private or social) investment.

Nimble Critters or Agile Predators?

The U.S. economy has experienced a substantial increase in the pecuniary returns to postsecondary education since 1980, particularly for BA and higher degrees (Autor, Katz, and Kearney 2008; Goldin and Katz 2008). At the same time,

strategy of comparing earnings before and after college using workers under 30 years old in the 1997 National Longitudinal Survey of Youth. Cellini and Chaudhary likely understate the relative economic returns to going to a public two-year college relative to a private for-profit institution by dropping from their sample the students who continued beyond an AA to get a BA or more.

state budgetary difficulties have constrained the expansion of public sector higher education; for example, Cellini (2009) provides compelling evidence from California on how public sector funding constraints on community colleges increased the rate of entry of for-profit colleges. In the meantime, federal and state financial aid for students going to for-profit institutions has become more available and generous (for example, Cellini 2010). Based on these factors, and others discussed in this paper, the for-profit postsecondary school sector became the fastest growing part of U.S. higher education from the 1990s through 2010. Increased regulatory scrutiny and adverse publicity from Congressional hearings, investigative reporting, and Government Accountability Office (GAO) audits have led to a substantial slowdown in the growth of for-profit enrollments in 2011 and actual declines in new students at many of the larger national chains (Steinerman, Volshteyn, and McGarrett 2011; Fain 2011).

Evaluating the successes and failures of U.S. for-profit higher education must go beyond mean outcomes and consider the distribution of labor market effects and financial default rates. For many, the for-profits have been a success. They have played a critical role in expanding the supply of skilled workers in an era of tight state budgets and stagnating state appropriations to public sector schools. They have provided educational services to underserved populations. Their innovative use of web services has further allowed them to accommodate nontraditional students. Their disproportionate share of federal student grants and loans has enabled them to provide skills to disadvantaged populations. Short-run retention is high and the for-profits do an admirable job of graduating students from shorter certificate programs. The vast majority of their students are satisfied with their programs.

But the for-profits also charge higher tuition and fees than public sector alternatives, and their students are more likely to end up unemployed and with substantial debts. Students who attended a for-profit have much higher default and nonrepayment rates on federal student loans than do observationally similar students who attended a public or private nonprofit institution.

The U.S. Department of Education (2011b) has recently sought to address this issue of the high default rate on loans to students at for-profit institutions by passing “Gainful Employment” regulations, which will require most for-profit programs and certificate programs at public and nonprofit institutions to pass at least one of three metrics to remain Title IV–eligible: 1) at least 35 percent of former students repaying their loans (“repaying” defined as reducing their loan by at least \$1 over the course of a year); 2) annual loan payments not exceeding 30 percent of a typical graduate’s discretionary income; or 3) annual loan payments not exceeding 12 percent of a typical graduate’s earnings.

How these rules will work in practice, as students and for-profit institutions adjust to their presence, remains to be seen. The former students of for-profit institutions have comparable (but slightly lower) earnings, combined with substantially higher loan burdens, relative to other school leavers, suggesting that some for-profit institutions may face challenges meeting the new Gainful Employment standards. As one example, consider the rule that the debt burden (annual federal student

loan yearly payments) should not exceed 12 percent of annual earnings for a typical graduate. In fact we find (conditional on observables), in Table 3 for the Beginning Postsecondary Students data, that for-profit students would have had a 15 to 19 percentage point lower rate of meeting the recently enacted Gainful Employment earnings threshold in 2008 (four to five years after starting) than would students from other types of institutions.

In effect, the Gainful Employment rule seeks to hold the for-profits more accountable and put a greater burden on the schools, rather than only on the students who have difficulties in repaying their loans. The new regulations will also require institutions to disclose their program costs, as well as completion, placement, and loan repayment rates. These regulations will increase transparency but may be insufficient to contain an agile predator. A reality check by a third party might be needed before a student is allowed to take out a loan.

The for-profits have taken a large burden of increased enrollment in higher education off the public sector. The high default rates of their students on federal loans, however, increase their cost to the taxpayer. Regulating for-profit colleges is tricky business. The challenge is to rein in the agile predators while not stifling the innovation of these nimble critters.

■ *We gratefully acknowledge the superb research assistance of Tanya Avilova, Jason Poulos, and Bernie Ziprich. We are grateful to Stephanie Cellini and the Editors for helpful comments. The research reported here was supported by the Institute of Education Sciences, U.S. Department of Education, through Grant R305C110011 to Teachers College, Columbia University. The opinions expressed are those of the authors and do not represent views of the Institute or the U.S. Department of Education.*

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