

# Potential Mature Students Recruitment to HE

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# FINAL REPORT

## 'Potential Mature Students Recruitment to HE'

### Research Team

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### Executive Summary

#### Purpose

This report addresses issues around why some mature people participate in higher education and others do not, comparing those who enter HE with those who do not. It makes various estimates of the potential for expanding participation in HE by mature people by examining trends in participation and attainment and the propensity of different groups to enter HE.

The report primarily draws upon analyses of HESA and UCAS data (in relation to mature students) and Labour Force Survey (LFS) data in relation to mature non-participants. Additional smaller data sets are also drawn upon: the UNL MORI Survey of Attitudes to HE, the DFES MORI Survey of Potential Mature Student Recruitment to HE (headline results only); the Youth Cohort Study, and data from the Office of National Statistics on population trends. Analyses are supplemented by a review of literature relating to mature students.

The first section of the report (Section A) provides an examination of trends (and projections) over time in relation to the characteristics of mature students.

Section B examines the pool of mature participants and non-participants ('potential mature students') and uses statistical modelling to identify factors affecting propensity to participate. There are also sections summarising literature on mature people's reasons for non-participation and issues around retention ('non-completion').

The third section of the report (Section C) considers the different Entry Routes used by mature students.

Section D examines the role of policy changes and changes within the labour market more generally upon current and future trends in mature student participation.

The Appendix provides further details on the analyses undertaken on particular data sets in relation to Basic Time Series analyses.



## Key Points

- Mature students are a significant element of the body of students in higher education. In this report we define mature students as those who commence their HE study aged 21 or over, and we focus, where statistics allow, on the 21-30 year old group. Some previous reports have defined mature students as those over the age of 25 years.
- A significant proportion of mature students already have higher education qualifications, and are returning to further study at the same undergraduate level. We have tried, wherever possible, to take these students out of our analysis, because our focus is on increasing the proportion of the population who have experience of higher education study.
- Mature students have rather different characteristics to younger students. They tend to enter higher education without A-level qualifications or the equivalents, unlike younger students. In terms of their background (based on the data available which is not comprehensive) a higher proportion is recruited from social classes III<sub>n</sub>, III<sub>m</sub>, IV and V. This reflects the lack of Level 3/A-level qualifications amongst these groups. It also reflects that, amongst those who do have level 3 qualifications from these social class backgrounds they are more likely than those from higher social class backgrounds to have fewer A-level points or vocational qualifications which are both linked to lower progression rates to HE.
- Mature students over 24 are more likely to be part-time than full-time. However, many part-time students already have some HE experience and are returning at the same level. Thus they do not contribute to increasing new entrants in HE.
- In general, students from all Black ethnic groups are more likely to be mature than students from other ethnic groups.
- Women are more likely to enter higher education at a younger age than men. Overall, there are slightly more male mature students than female mature students.
- Mature students have particular subject choices, which are different to those of younger students. Business and Management, Subjects Allied to Medicine, Performing Arts, Mathematics and IT are all more popular with mature students than with younger students. Social subjects are popular in both categories, mature and non-mature.
- Relatively few people from professional backgrounds over 21 who have not experienced Higher Education, and thus the principal potential source of mature students will be necessarily from non-professional backgrounds. Although the proportion of these with A-level qualifications is not high, some members of these groups are gaining Level 3 qualifications, and form a more qualified potential pool. These qualifications tend to be largely gained by 26, which would indicate a suitable age range on which to focus recruitment. A larger proportion of members of Black, Asian Bangladeshi and Asian Pakistani communities are found in the potential pool in comparison with other ethnicities.
- Generally, the largest numbers of non-participants with Level 3 qualifications appear to be amongst skilled manual males and skilled non-manual females. There are also qualified non-participants in the professional and intermediate classes, particularly among 27-30 year olds.

- Attitudinal factors affect the propensity of the 21-30 year old working class to enter HE. 'Belief in one's own ability' and having 'no preference for earning money' are significant positive indicators of an interest in HE entry, as are a belief in being able to 'better' oneself through HE study and a lack of inhibiting responsibilities. Whatever the level of qualification, these attitudinal effects appear to be the same.
- Amongst mature students there are a wide range of qualifications used to gain entry to Higher Education. These vary by the type of course being undertaken – for example, undergraduate degree courses compared to HNDs – the mode of study, by age of the student, by the student's social class background, and by ethnicity. In any consideration of the potential for recruiting mature students, attention must be given to the diversity of potential qualifications used for admission.
- In considering the potential pool of mature students, attention should not only be focussed on those non-participants in the 21 – 30 year old cohort who have Level 3 qualifications. Whilst, these will continue to be an important source of supply to the mature student market experience shows that mature people with other/lower qualifications are also successfully participating in Higher Education. Indeed, regard should continue to be paid to those with no formal qualifications who, by virtue of their skills demonstrated in the workplace have the potential to benefit from higher education.
- Information about student financial support systems should be made more widely available to potential applicants, particularly those who are not currently in education.
- A single simplified system for allocating financial support would increase potential students' ability to assess their financial commitments in taking on HE study.
- Mature women may face particular personal, domestic and child care problems in participating. Extra targeted resources are needed to encourage mature women students and to support them on courses.
- Being a mature student highlights worries about identity. Changing identity pressures bear particularly on women students, characterised by sense of loss and separation and/or high social risk.
- A clear conclusion from the literature surveyed is that successful teaching of mature students who enter HE through non-standard routes involves the provision of extra time and support. This was acknowledged both by HEIs that do take on such students in large numbers, and by those that do not, as well as by those involved in Access courses. Thus, if they are to be successful, HEIs admitting mature students with non-standard qualifications require funding regimes to support both the recruitment and retention of these students.
- Some institutions are more successful at attracting and supporting mature students than others. These institutions should be encouraged to identify good and effective practices, and to share these with other institutions<sup>1</sup>.
- The data that is maintained on students is not consistent over time, and different data sets are collected for different purposes and have different coverage. This can make it difficult

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<sup>1</sup> Good practice guides have recently been produced by HEFCE and UUK published Social Class and Participation in Higher Education: From Elitism to Inclusion 2 in March 2002); and HEFCE are evaluating their widening participation strategy.

to analyse trends in HE over long periods and to make comparisons between different data sets.

## **SECTION A**

This section examines the characteristics of participants in Higher Education, with a particular emphasis on those in the 21 to 30 age range. It analyses data and trends in participation, comparing the characteristics of those who start their Higher Education experiences before they are 21 with those who enter between 21 and 30. Projections are made by extrapolating existing participation trends forward. This assumes that recent trends will continue.

## **(I) MATURE STUDENTS**

### **Class Demographics, Enrolment into HE, Projections of Participation for General Population and by Social Class (1994-2011)**

The proportion of the 18 - 30 age range that participates in Higher Education has increased each year for several decades. Participation over the last five years has increased steadily but at a slower pace than during the late 1980s and early 1990s. It has been suggested that this stagnation of post-compulsory educational participation rates may be the result of regional or macro economic factors (Clark- CEE DP24, April 2002).

To identify the potential nature and size of the population who might enter Higher Education as mature students, the first section of this report describes and analyses younger students, who begin their studies before the age of 21. Having identified this group, we can then identify more accurately the remaining part of the population that could be potential mature students, currently and in the future.

This is combined with an initial attempt to project current rates of change over the next decade. This has been done separately for each social class, because there is evidence that participation varies between such groups more than any other factor. This may partly be a consequence of other factors that are associated both with social class and the propensity to enter higher education.

Social class is generally considered to be one of an individual's ascribed characteristics in the early stages of their life, so a person before the age of 21 is generally assigned to the social class determined by their parents' occupations. It has long been acknowledged that a disproportionate number of young people from the professional social classes have been recruited into higher education, compared to young people from the working classes. This has largely followed lower working class achievement in the statutory phase of education, and in particular lower working class attainment of A-levels. In terms of entry into higher education at the ages of between 18 and 21, the real question may be why people from working class backgrounds do not undertake post compulsory academic qualifications at the age of 16, not after the age of 18. Whatever the causal relationships may be, it will be shown that this means that there will be relatively few people from professional backgrounds over 21 who have not experienced Higher Education, and thus the principal potential source of mature students will be necessarily from amongst those of working class origin. There are considerable difficulties in analysing participation rates at different ages, because social class is not constant. As will be made clear throughout this report, many of the data sets we have used (especially the LFS) recorded social class *after* the attainment of a qualification or the completion of higher education, and subsequent employment. Figures thus overestimate the numbers of people from professional and intermediate backgrounds attaining higher education qualifications.

In later life, social class is more generally considered an achieved characteristic, determined by the individual's own occupational attainment. Since social class early in life influences educational attainment at school, the attainment of traditional entry qualifications for university entry at eighteen is clearly differentiated by social class (e.g. Himmelweit 1954; Halsey et al., date; Robertson and Hillman, 1997).

The situation for mature students or potential mature students is more difficult to analyse, because most data for the adult population is collected on the basis of current social status. Thus, for example, the Quarterly Labour Force Survey data (QLFS) on 21 to 30 year olds records the highest educational attainment level by social class. As many professional positions (by definition social class I and II) now require degree-level training and

qualifications, it is unsurprising that a high proportion of this group have HE level qualifications. However, this does not *necessarily* reflect their social class origins – although, given the correlation between school attainment and social class, in many cases it will do so.

The difficulty in determining changes in the social status of mature HE entrants is compounded by the recording of mature students' social class by their own employment status at the time of application to an HE course, which may not reflect their social class during their school life. Moreover, the social class of many mature entrants will not be recorded at all. This is because many mature students do not apply through UCAS, either because they study part-time or because they apply directly to institutions.

Despite these important caveats, the first projections in this report start from the basis of the existing data about participation, both mature (generally based on social class at the time of the data collection) and 'traditional' (pre 21 enrolment) HE entry (based on parental socio-economic group or parental social class depending on the data source used).

We have generally in this report used data classified by the Registrar General's Social Class categories. This is currently being replaced by a new classification of National Statistics Socio-economic Classification (NS SEC). This has not been used here because the data sources we use have been prepared on the basis of the Social Class categories: the raw data on occupations was not available for re-categorisation. Social Class in this report is referred to by Roman numbers (I, II, III<sub>n</sub> (non-manual), III<sub>m</sub> (manual), IV and V). We have also on occasion used data classified by Social Grade, a system similar to the Registrar General's classification, but one devised and used by the Market Research Society. Social Grade in this report is referred to by letters (A, B, C1, C2, D and E). In practice these two classifications are very similar. The data from the Youth Cohort Study is classified by socio-economic group (SEG). This classification aims to bring people together with similar social and economic status. It is derived from occupational unit group, employment status and size of employment.

The projections that follow simply extrapolate existing trends, which over the relatively short time-span involved is an approximation that will be indicative of the scale of the issue. Later in this report more complex analysis generates estimates of the size and nature of the pool of potential mature entrants and we have statistically modelled the factors associated with entering HE amongst mature people from working class backgrounds.

We start by estimating the population aged 21-30 in each social class from 1993-2011 (see Table 1). The proportion of the population in each class is not static, but the Office of National Statistics does not publish projections of the future class composition of the population. The QLFS sample can be used to detect the changes in the relative proportions of the population in each social class over the past nine years, and if the assumption is made that the same trend will continue over the next decade (see appendix) we can make a projection of the proportions of the future population in each class.<sup>2</sup> As the Government Actuary makes projections of the total size of the resident population of England for each year of the next decade by age, it is possible, by combining this with the estimated proportion of the population in each social class derived from the LFS, to estimate the actual size of each social class.

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<sup>2</sup> It would be possible, if time was available, to calculate more informed projections for changes in the size of each social class, for example, using the Institute for Employment Research's projections of occupations.

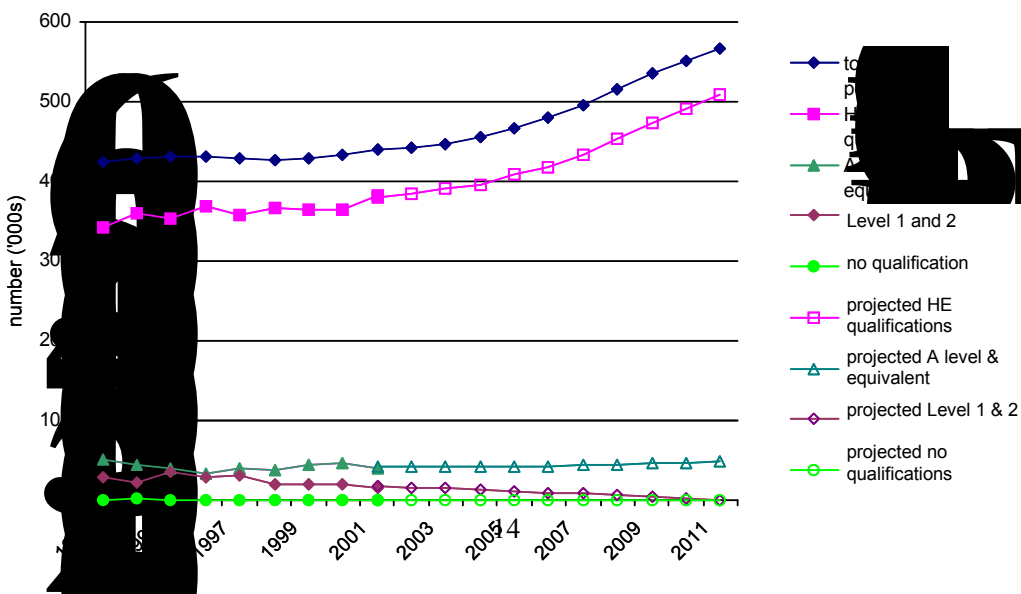
**Table 1: Actual and Estimated size of 21 – 30 population of England by social class, 1993 - 2011**

Year	Population 21– 30 ('000)	Size of Social Class 21 – 30 (thousands)					
		I	II	III <sub>n</sub>	III <sub>m</sub>	IV	V
1993	7,732	425	2064	2142	1639	1121	286
1994	7,605	430	2054	2108	1582	1103	275
1995	7,435	431	2032	2063	1517	1078	262
1996	7,242	431	2002	2012	1448	1050	249
1997	7,036	429	1967	1956	1379	1020	236
1998	6,833	427	1931	1901	1312	991	223
1999	6,697	429	1914	1865	1259	971	213
2000	6,612	433	1910	1843	1217	959	204
2001	6,546	439	1911	1826	1178	949	196
2002	6,457	442	1906	1803	1137	936	188
2003	6,390	447	1906	1786	1099	927	181
2004	6,366	455	1919	1781	1070	923	174
2004	6,381	466	1943	1787	1046	925	169
2006	6,437	480	1980	1804	1030	933	165
2007	6,526	496	2028	1831	1018	946	162
3008	6,643	515	2085	1865	1010	963	159
2009	6,773	535	2147	1903	1002	982	156
2010	6,855	552	2194	1928	987	994	152
2011	6,914	567	2235	1946	968	1003	147

Sources: England population, 1993 – 2000: Estimated resident population at mid-2000 Population Estimates Unit, ONS; 2001 – 2011: Population projections by the Government Actuary, 2000 base (all by individual year of age); social class calculated from the 21- 30 year old data, 1993 – 2001, with trend line established over this period and projected to 2011. Note that the social class data is based on the percentage of respondents in the sample who were in employment, not the whole population, and has been used to estimate the social class composition of the whole population. This is simplistic and this approach is likely to overestimate those in the higher social classes and underestimate those in the lower social classes.

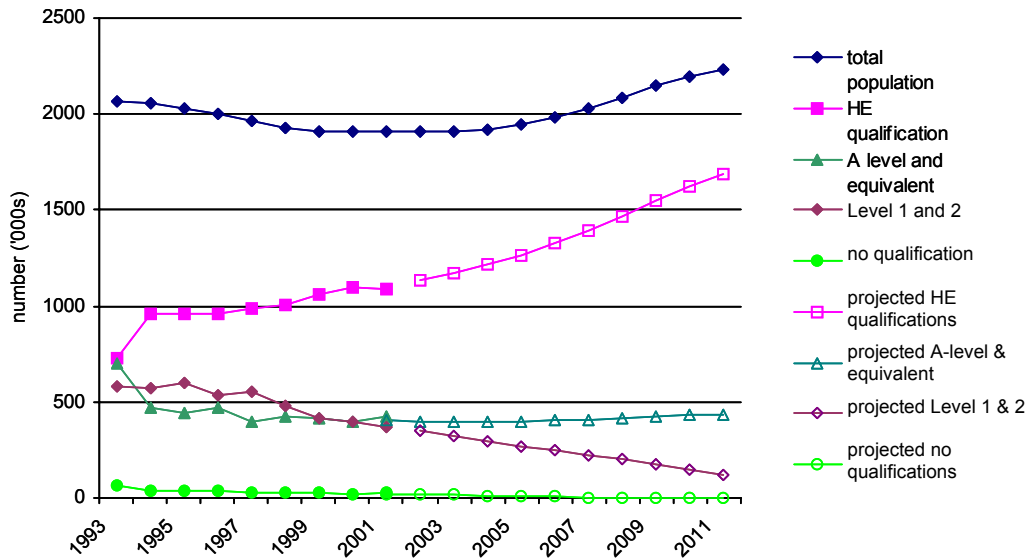
Using the estimates of the size of each social class in Table 1 as a starting point, we have next projected the number of those within each social class who have a Higher Education qualification (and those who have A or other level 3 qualifications, and those with level 1 and 2 qualifications). These projections are generated by estimating LFS data for the last nine years, to establish the trend in the proportion of the population in each social class who have a HE qualification and extrapolating this forward. The analysis of highest qualification is based on the percentage in each social class (based on those in employment) who have HE qualifications. This allows the calculation of the percentage of each class that is projected to have successfully completed HE between 2002 and 2011. This in turn has been used to calculate, using the National Population projections for England, the projected size of the population for each class for these years (Figures 1 to 7).

**Figure 1: Highest level of attainment, 21 - 30 year olds, England: Actual 1994 – 2001; Projections to 2011 – social class I**



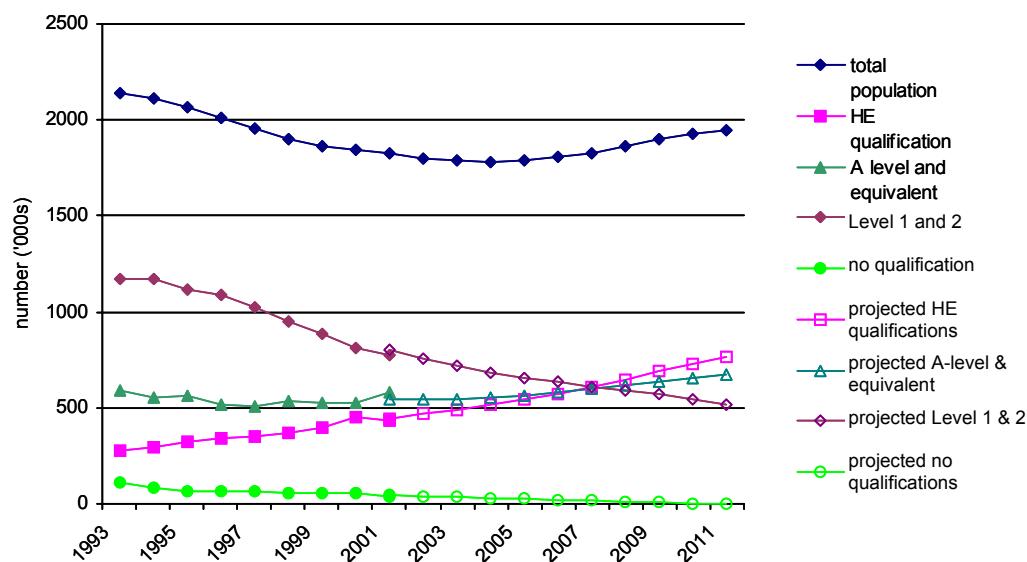
Source: QLFS trend in the percentage of 21-30 population in social class I with different highest qualifications extrapolated from estimated trends in the population in social class I and the extrapolated estimated trend in the proportion of the population in social class I holding different levels of qualification as their highest qualification. Solid markers indicate actual numbers, 1993–2001; Hollow markers for qualifications indicate projected numbers 2001–2011 based on trends in percentage of population in 1993–2001 period.

**Figure 2: Highest level of attainment, 21 - 30 year olds, England:  
Actual 1994 – 2001, Projections to 2011 – social class II**



Source: QLFS trend in the percentage of 21-30 population in social class II with different highest qualifications extrapolated from estimated trends in the population in social class II and the extrapolated estimated trend in the proportion of the population in social class II holding different levels of qualification as their highest qualification. Solid markers indicate actual numbers, 1993–2001; Hollow markers for qualifications indicate projected numbers 2001–2011 based on trends in percentage of population in 1993–2001 period (1993 figures ignored as outlier).

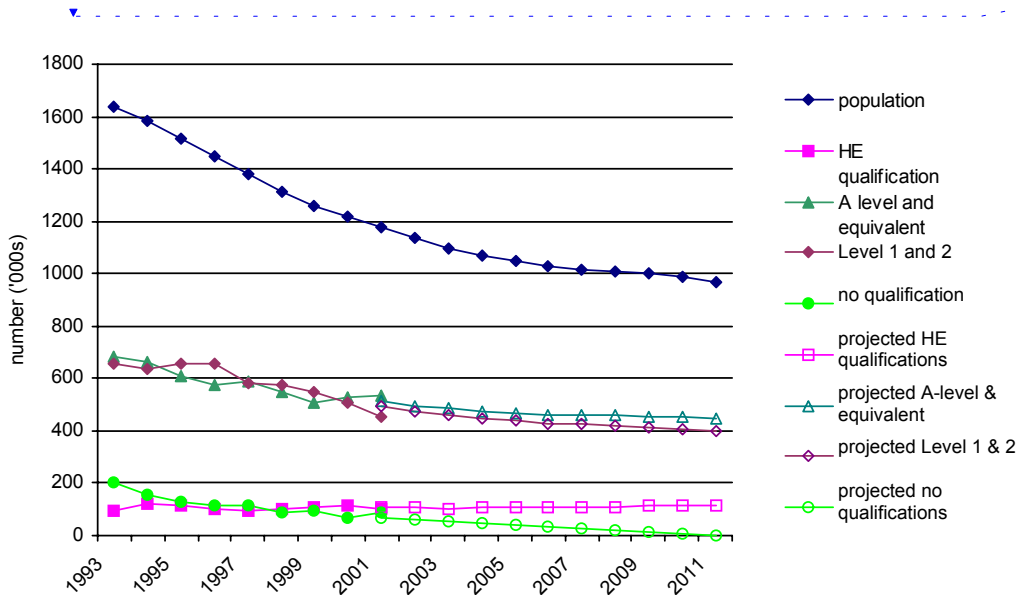
**Figure 3: Highest level of attainment, 21 - 30 year olds, England:  
Actual 1994 – 2001, Projections to 2011 – social class III**





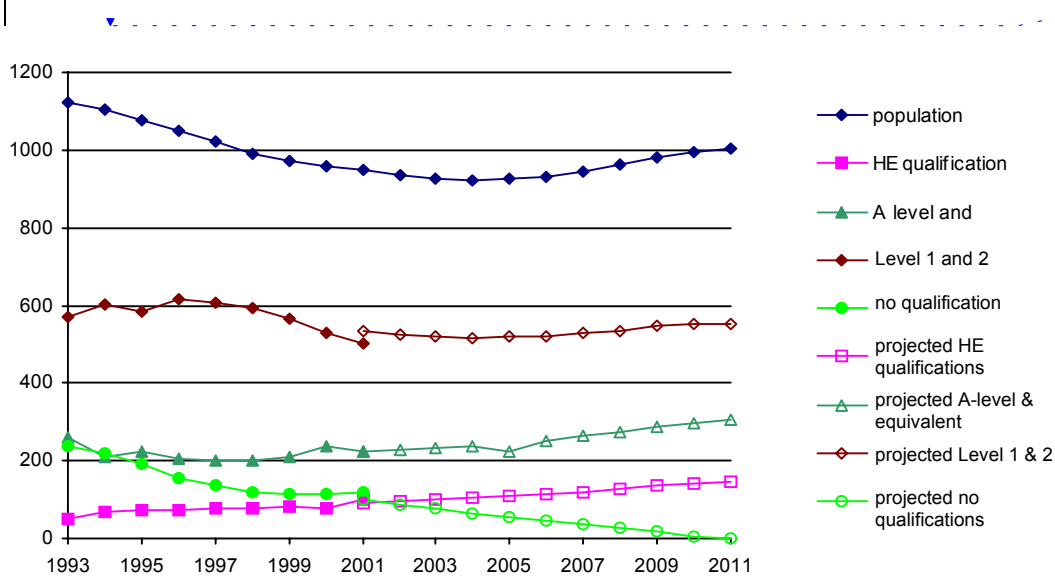
Source: QLFS trend in the percentage of 21-30 population in social class IIIIn with different highest qualifications extrapolated from estimated trends in the population in social class IIIIn and the extrapolated estimated trend in the proportion of the population in social class IIIIn holding different levels of qualification as their highest qualification. Solid markers indicate actual numbers, 1993-2001; Hollow markers for qualifications indicate projected numbers 2001-2011 based on trends in percentage of population in 1993-2001 period.

**Figure 4: Highest level of attainment, 21 - 30 year olds, England:  
Actual 1994 - 2001, Projections to 2011 – social class IIIIn**



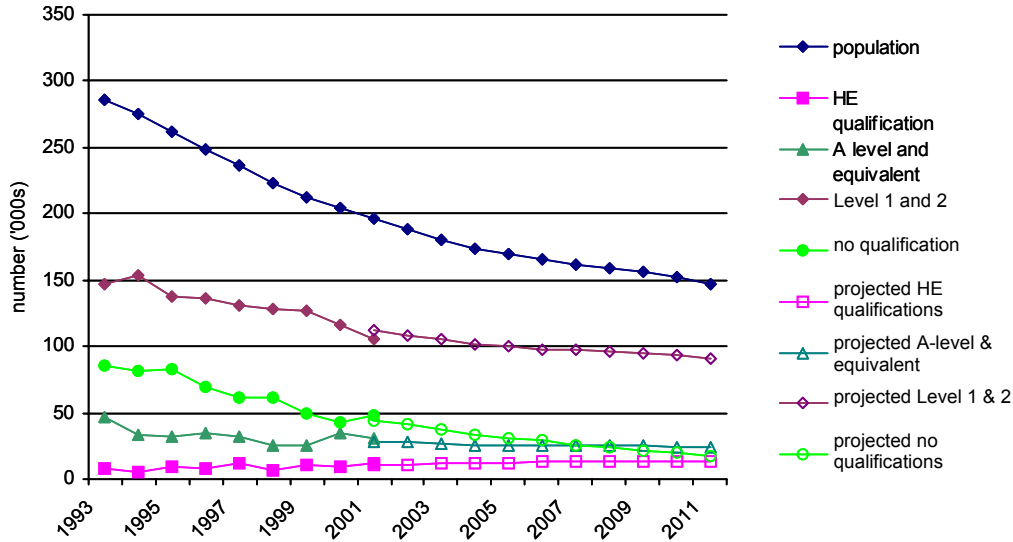
Source: QLFS trend in the percentage of 21-30 population in social class IIIIn with different highest qualifications extrapolated from estimated trends in the population in social class IIIIn and the extrapolated estimated trend in the proportion of the population in social class IIIIn holding different levels of qualification as their highest qualification. Solid markers indicate actual numbers, 1993-2001; Hollow markers for qualifications indicate projected numbers 2001-2011 based on trends in percentage of population in 1993-2001 period.

**Figure 5: Highest level of attainment, 21 - 30 year olds, England:  
Actual 1994 - 2001, Projections to 2011 – social class IV**



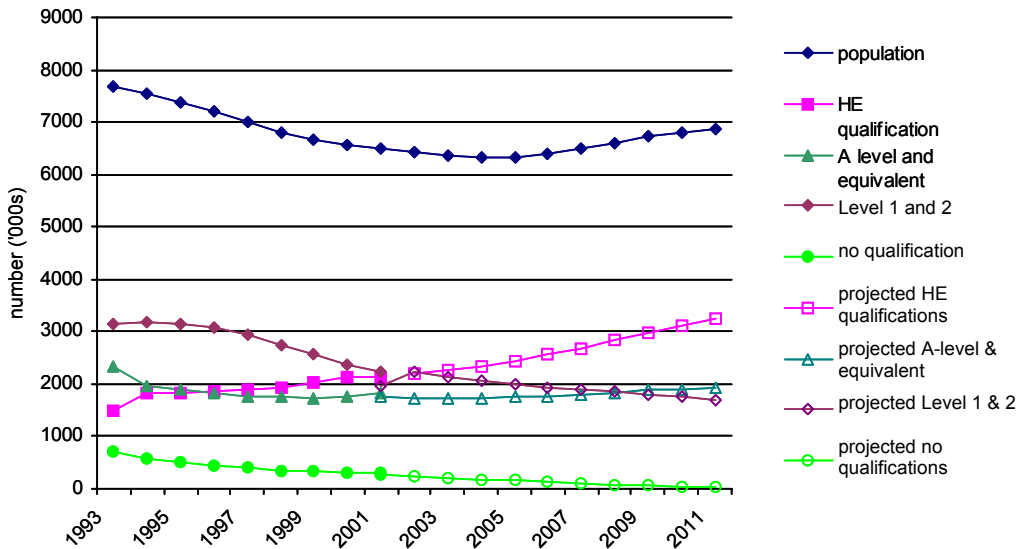
Source: QLFS trend in the percentage of 21-30 population in social class IV with different highest qualifications extrapolated from estimated trends in the population in social class IV and the extrapolated estimated trend in the proportion of the population in social class IV holding different levels of qualification as their highest qualification. Solid markers indicate actual numbers, 1993-2001; Hollow markers for qualifications indicate projected numbers 2001-2011 based on trends in percentage of population in 1993-2001 period.

**Figure 6: Highest level of attainment, 21 - 30 year olds, England:  
Actual 1994 - 2001, Projections to 2011 – social class V**



Source: QLFS trend in the percentage of 21-30 population in social class V with different highest qualifications extrapolated from estimated trends in the population in social class V and the extrapolated estimated trend in the proportion of the population in social class V holding different levels of qualification as their highest qualification. Solid markers indicate actual numbers, 1993-2001; Hollow markers for qualifications indicate projected numbers 2001-2011 based on trends in percentage of population in 1993-2001 period.

**Figure 7: Highest level of attainment, 21 - 30 year olds, England:  
Actual 1994 - 2001, projections to 2011 – whole population**



Source: QLFS trend in the percentage of 21-30 population with different highest qualifications extrapolated from estimated trends in the population and the extrapolated estimated trend in the proportion of the population holding different levels of qualification as their highest qualification. Hollow markers indicate projected numbers 2001-2011 based on trends in percentage of population in 1993-2001 period.

As figure 7 shows the size of the population of 21 – 30 year olds is not static. The group is currently declining in numbers, and will fall from its current level by 2.4% over the next five years before rising by 5.8% over the following five years. This contrasts with the continual decline in this population since 1993 to the present.

This analysis assumes that recent estimated trends in the proportion of the population in each social class continue during the next ten years. As has been noted, the analysis is based on the reported occupation *at the time of the LFS survey*, which may, of course, be different from the social class *origins* of the respondents and is based only on those in employment. The analysis ignores possible interactions between the size of the population and the proportion qualified to different levels. The former are based partly on projections by the Government Actuary and partly on extrapolated trends in the social class composition of those in employment whilst the latter are just based on past trends.

This analysis suggests that there is the possibility in social class I of near "saturation" being reached, when further expansion in the proportion of the population in Higher Education is impossible.

Using the projected percentages of completion of HE for each class with the projected total population for each class, we estimate (Table 2) the total numbers of each class who will have achieved a higher education qualification in 2006 and 2011.

**Table 2: Percentages and numbers of 21-30 year olds by social class who have Higher Education qualifications as their highest level of attainment, 2001 – 2011 projections**

<i>Social class</i>	<i>% of each social class with HE qualifications</i>			<i>numbers of each social class having HE qualifications ('000s)</i>		
	<i>2001</i>	<i>2006</i>	<i>2011</i>	<i>2001</i>	<i>2006</i>	<i>2011</i>
<b><i>I: professional</i></b>	87.2	89.5	91.9	382	428	521
<b><i>II: Managerial and technical</i></b>	57.1	66.9	75.7	1,092	1,324	1,692
<b><i>IIIa: skilled non-manual</i></b>	23.6	31.9	39.2	430	575	763
<b><i>IIIb: skilled manual</i></b>	8.4	10.4	11.9	99	107	115
<b><i>IV: partly skilled</i></b>	10.7	12.2	14.7	102	114	147
<b><i>V: unskilled</i></b>	6.1	7.7	9.6	12	13	14
<i>Total</i>	28.3	34.0	41.8	2,117	2,559	3,253

Source: as Table 1 and Figures 1 - 7. Note that Armed Forces are omitted

These figures are of those who have *completed* Higher Education: to this must be added the numbers in the age range who are still studying at HE level, which constitute a high proportion of the younger elements of the age group. This proportion of 'young matures' (21-24 year olds) who are completing HE courses which they started before they were 21 is rising rapidly (1996: 4.2% of the 21- 30 year old population; 1998: 5.0%; 2000: 6.4%) and, at this rate, is projected to be 7% of the cohort in 2006 and 8.5% in 2011. Note that all these figures relate to individual's social class as measured *at the point of interview* within the QLFS, not to the social class of the individual *at 18 or at the commencement of HE*. This tendency could

at least partially be explained if more young students are delaying their entry into HE marginally by taking a Gap year and entering later.

However, this projected growth depends on a continuation of existing participation trends. There may be some limitation/slowing as group I (and, to a lesser extent, group II) approaches 'saturation point' for participation.

### Enrolment into HE

Data on social class on admission is collected by UCAS. Unfortunately this is not a sufficiently long time series to measure cohorts of mature students (figures are aggregated by age post 24). Moreover, UCAS only records full-time and sandwich students: this means that they more accurately represent the situation in the 18 - 20 age range than they do for those aged 21 and over as many mature students either study part-time or apply directly to institutions. Taking the 2000 entry figures of UK-based students, the following tables indicate the percentage of students who started their degree or HND course by age, for each social class at the point of application, and as a cumulative percentage. UCAS's classification is based on the occupation of the applicant's parent, as reported by the applicant on the application form, and there are necessarily some reservations about the reliability of this. Some 13% of applicants decline to provide information that identifies their social class.


**Table 3: Percentage of total of HE participants from each social class who are enrolled in HE at different ages on full time courses**

Social Class	Age on admission											Total ('000)	
	< 18	18	19	20	21	22	23	24	25-29	30-39	40+		
<b>I: professional</b>	3.7	60.1	24.5	6.6	1.0	0.5	0.3	0.2	0.7	0.9	0.6	100	42.1
<b>II: Intermediate</b>	2.9	54.1	23.8	7.2	2.5	1.0	0.7	0.6	2.4	3.2	1.7	100	122.3
<b>IIIa: skilled non-manual</b>	2.3	43.9	20.9	7.2	4.7	3.4	2.3	1.7	5.5	5.9	2.1	100	40.3
<b>IIIb: skilled manual</b>	2.7	49.8	24.9	8.7	3.1	1.4	0.9	0.7	2.9	3.6	1.3	100	45.1
<b>IV: partly skilled</b>	2.4	42.2	21.9	8.4	4.6	3.1	2.0	1.7	5.4	6.2	2.2	100	30.5
<b>V: unskilled</b>	1.9	43.0	26.0	11.3	4.6	1.8	1.7	1.3	3.5	3.6	1.4	100	5.5

Source: UCAS, 2000

**Table 4: HE participants from each social class who commence higher education: Cumulative percentage admitted by each age**

Social Class	Cumulative percentage admitted by age										
	< 18	18	19	20	21	22	23	24	25-29	30-39	40+
<b>I: professional</b>	3.7	63.8	88.2	94.8	96.7	97.2	97.5	97.7	98.5	99.4	100
<b>II: Intermediate</b>	2.9	57.0	80.8	88.0	90.5	91.5	92.2	92.8	95.2	98.3	100
<b>IIIa: skilled non-manual</b>	2.3	46.2	67.1	74.3	79.0	82.4	84.7	86.3	91.8	97.7	100
<b>IIIb: skilled manual</b>	2.7	52.4	77.3	86.0	89.2	90.6	91.5	92.2	95.1	98.7	100
<b>IV: partly skilled</b>	2.4	44.6	65.5	74.9	79.5	82.6	84.6	86.3	91.7	97.8	100
<b>V: unskilled</b>	1.9	45.0	71.0	82.3	86.8	88.6	90.3	91.6	95.1	98.6	100
	2	3	4	5	6	7	8	9	10	11	12

80% admitted 

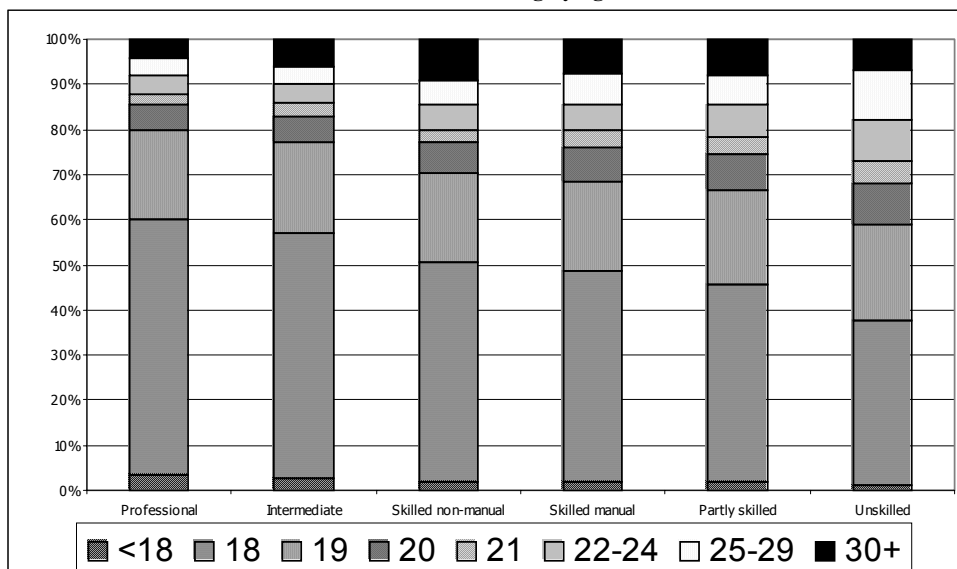
90% admitted 

Source: UCAS, 2000

Tables 3 and 4 show that different proportions of students from each social class enter higher education through UCAS as mature full-time undergraduates. The following figures show

this, and the changes that have occurred over the past six years, using the UCAS data for full-time study for degree and HND qualifications. As mentioned, because these figures are for full-time students, they are more likely to be representative of non-mature students than of mature students. Nevertheless, they do help us understand the nature of the non-mature student body, and thus to infer the potential mature student body. Comparable data on those completing HE courses is not available.

**Figure 8: UCAS Entry: Students by age and social class, 1994**  
**Distribution of social class: % of all students enrolling by age on admission**

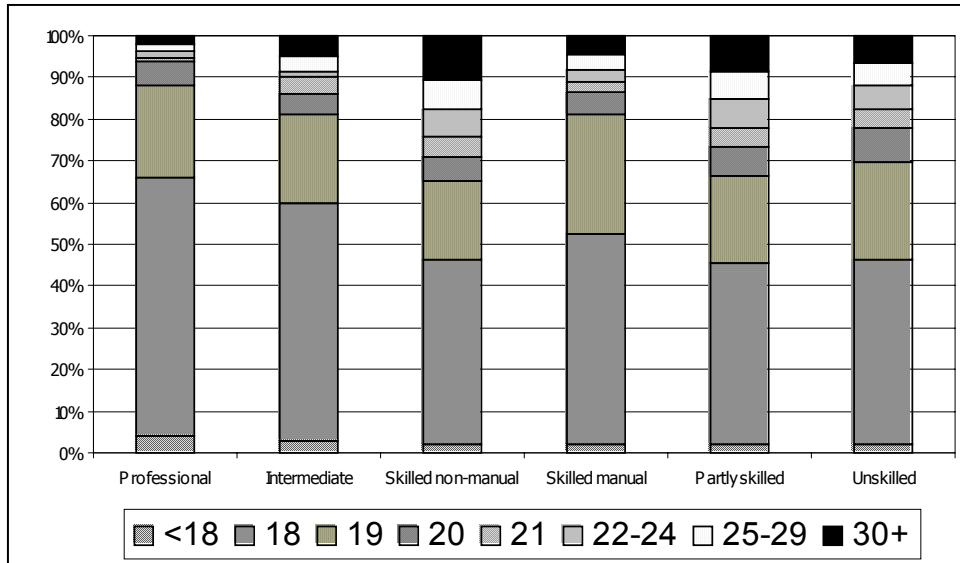


Source: UCAS, 1994

Figure 8 shows the position in 1994. While 60% of all those in class I who will enter full-time Higher Education have done so by the age of 18, only 37% of those in social class V will have entered by this age. 85% of those in class I who will enter HE have done so by the age of 21, while only 67% of those in social class V will have done so. The distribution within the mature student sector by social class is rather less clear: there was in 1994 a quite distinct (albeit small) tendency for some skilled non-manuals (group III<sub>n</sub>) to enter HE after 30.

By 1997 (Figure 9), the situation had changed: higher proportions of students, in all classes except for skilled non-manuals were starting under the age of 21. However, the degree of change was markedly different for each class. Social class V, for example, moved from 33% mature entry to 23% mature entry. But the skilled non-manual class continued – even more so than in 1994 – to recruit from older cohorts of people. There appeared to be a reservoir of older people in this class who successfully sought entry to Higher Education as mature students.

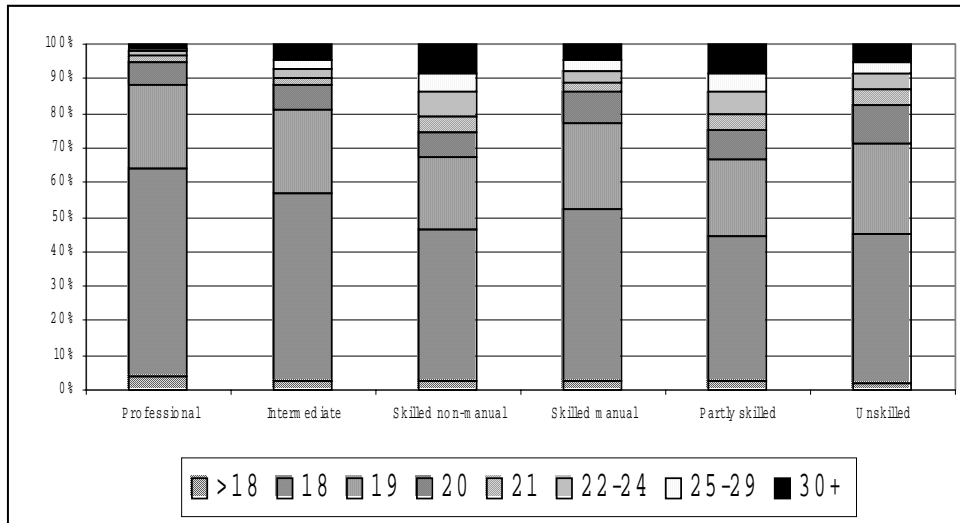
**Figure 9: UCAS Entry: Students by age and social class, 1997**  
**Distribution of social class: % of all students enrolling by age on admission**



Source: UCAS, 1997

Since 1997 the proportion in each social class entering as mature students has fallen (Figure 10). Skilled non-manual, partly skilled and unskilled entrants to full-time Higher Education are more likely than students from other social class backgrounds to enrol after the age of 21.

**Figure 10: UCAS Entry: Students by age and social class, 2000**  
**Distribution of social class: % of all students enrolling by age on admission**



Source: UCAS, 2000

The following table combines UCAS data on enrolment by age to full-time undergraduate courses with LFS data on HE achievement (the latter includes those who have studied both part- and full-time). It therefore assumes that UCAS data on enrolment by age for each social class is a reasonable approximation for both full- and part-students. This is questionable since people from lower social classes and those who study part-time are more likely to enrol when they are older. Given the limitations of the data and the difficulties associated with combining different data sources, the following table is only meant to be indicative. For example, column 5 in the table is likely to underestimate, particularly for those not from professional backgrounds, the proportion entering HE between 21-29 years of age.

**Table 5: Full-time participation in Higher Education under 21 and over 21, indicating the potential for mature student participation in HE by social class**

Social Class	Under 21		21-29		
	% of group starting HE	level of participation	% group 'available' for HE	% of group starting HE	level of participation
<b>I: professional</b>	82.7	Virtually saturated	17.3	4.5	Minimal entry - none left
<b>II: Intermediate</b>	50.2	Fairly well saturated	49.8	6.9	} large potential entry, with entry qualifications
<b>III<sub>n</sub>: skilled non-manual</b>	17.5	poor take up	82.5	6.1	
<b>III<sub>m</sub>: skilled manual</b>	7.2	} very poor take up	92.8	1.2	} very large potential entry, but largely without 'traditional' qualifications for entry
<b>IV: partly skilled</b>	8.0		92.0	2.7	
<b>V: unskilled</b>	5.0	Minimal take up	95.0	1.1	
	2	3	4	5	6

**Sources:** Column 2: percentage of each social class who start HE before the age of 21, derived from the percentage of those who have achieved HE qualifications in 2001 (table 2, column 2), multiplied by the percentage of the group who enter HE before 21 (table 4, column 5). This will inevitably underestimate the situation, because there is no comparable data on completion rates. It is also probable that the completion rates vary by social class, and that working class students may have a lower rate of completion than do middle class students, and that therefore that these estimates under-represent the working class students more than they under-represent the middle class students. {For example, 57.1 of social class II have HE qualifications; 88% of those in class II who attain HE qualifications have enrolled by 21, so 50.2% of the whole group enrol as pre-mature students and complete their course.

*Column 4:* the residual percentage from column 2: the % in each social class which has not enrolled by age 21  
*Column 5:* percentage of the total number in each social class who start fulltime HE between 21 and 30, from the 2001 percentage of those who will achieve HE qualifications (table 2, column 2) multiplied by the percentage of the group who enter HE between 21 and 30 (table 4, columns 6-10).

The expansion of participation in higher education to date has largely been achieved by differential full-time enrolment from different social classes. While all classes have increased their level of participation, the higher social classes (I and II) have substantially increased their participation, and the participation of other groups has been more modest in absolute terms.

Next, we attempt to see how many of those with standard university entry qualifications in each social class actually go to university. The standard admission criterion to UK Universities for students below 21 has been the possession of 2 A-level grades. Table 6 gives the percentage of 21 year olds (England and Wales) with 2 or more A-levels, equivalent or higher qualifications in 2000.

**Table 6: Percentage of those with A, AS or degree qualifications at age 21**

<i>Socio-economic group</i>	<i>% of group with at Level 3 or above at age 21, 2000</i>
<i>managerial / professional</i>	69
<i>Other non-manual</i>	65
<i>Skilled manual</i>	46
<i>Semi-skilled manual</i>	39
<i>Unskilled manual</i>	33

Source: Youth Cohort Study: The activities and experiences of 21 year olds: England and Wales 2000 (SRF/2001), August 2001 (Table E).

Currently, most of those who will become students, in all classes, start their HE studies before 21. But table 7 suggests that the percentage of those with A/AS level qualifications achieving HE qualifications from lower SEGs/social classes is much lower.

**Table 7: Projecting the 21-30 population who will have entry level qualifications by age 21 but will not enter HE by the age of the 30**

	% with at least A or AS levels at 21	% of 21 – 30 year olds who have achieved HE qualifications	% of those with entry qualifications at 21 who have HE qualifications 21 – 30	Projection of size of 2001 21 - 30 year old population who have entry qualifications at 21 but who will not achieve HE qualifications by 30
I: professional and II: Intermediate	69	63.7	92.3	125,000
III <sub>n</sub> : skilled non-manual	65	23.6	36.3	756,000
III <sub>m</sub> : skilled manual	46	8.4	18.2	443,000
IV: partly skilled	39	10.7	27.4	269,000
V: unskilled	33	6.1	18.5	53,000

Sources: Column 1, from table 6; Column 2, from table 2, col 2; Column 3, Col2 as a percentage of column 3; Column 4, from Column 3 and Table 1)

Table 7 is conjectural, and presents some problems. Again this is largely because it combines different data sources with different coverage. It combines figures from the Youth Cohort Study (of 21 year olds in 2001: sweep three of the eighth cohort, born 1980) with figures derived from the LFS (of 21 - 30 year olds in 2000). The two populations are distinct, and it is



likely that current 21 year olds have better qualifications, and are more likely to achieve Higher Education entry, than the cohort of 21 year olds in 1991 who will form the 30 year olds in the LFS population. The YCS also uses socio-economic group whilst throughout this report the LFS data has been presented according to social class. For these, and other reasons and assumptions already discussed (e.g. assuming the same LFS social class composition for the non-employed as for the employed) the table only gives a broad indication of the social composition of the pool of potential mature students given the social composition of young students.

Taking the population who have Level 3 qualifications, there is a preponderance of those with low A-level point scores, or vocational level 3 qualifications, among the lower socio-economic groups. Although technically qualified for entry to Higher Education, they are less well qualified. Prior attainment – and particularly for traditional Higher Education entry (a high A-level point score) - matters. The YCS shows that the great majority of young people who attain 2+ A-levels by 18 enter Higher Education by the age of 21, irrespective of their socio-economic group. Those from manual backgrounds I who have achieved entry qualifications by age 21 are more likely to have poor A-level point scores, or vocational equivalents to A-level, and are thus less likely to acquire a Higher Education qualifications by the age of 30 compared with those from non-manual backgrounds. This is crucial – why do people from lower socio-economic groups not undertake and complete A levels? The implication is that one of the strategies to widen participation in HE should be getting young people to stay beyond minimum school leaving age and complete A Level (or equivalent) qualifications.

Social classes III<sub>n</sub> to V thus form the largest potential for expansion in the mature HE student sector. The percentage of mature full-time entrants (via UCAS) from these social classes is higher than those in classes I and II, although the absolute numbers are still relatively very low. The significance of these social classes for the potential expansion of mature students is that, post 21, entry qualifications for HE become more flexible.

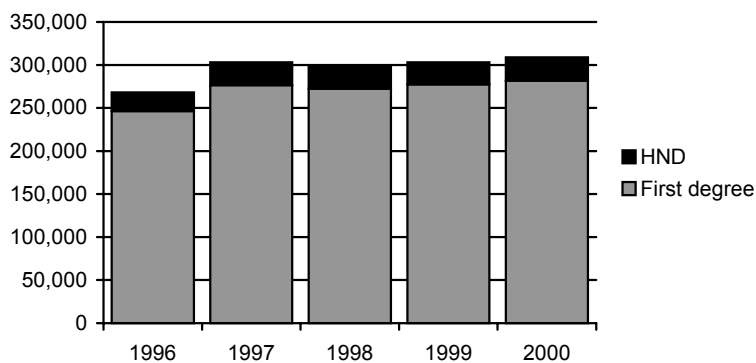
To summarise the analysis up to this point: This report is primarily concerned with mature students without prior experience of higher education. These students will necessarily be recruited from the population that has not enrolled in Higher Education before the age of 21. The data above has been used to demonstrate that those who currently engage in Higher Education before the age of 21 display particular social characteristics, being disproportionately drawn from social class I and to a lesser extent social class II. There are relatively small numbers in social class I who are not already in Higher Education by the age of 21, and these groups therefore cannot – even if they are qualified and willing to enrol - play a significant part in any growth of new mature entrants. The most significant areas in terms of numbers of potential recruits after the age of 21 are particularly social classes III<sub>n</sub>, III<sub>m</sub> and IV. Social class V is significant as having proportionally few entrants to Higher Education at any age, but is numerically quite small. Social class II, which is numerically large, still has considerable potential for mature student growth.

## Characteristics of Mature Students and Trends in Mature Student Study

### (i) Full-time Students

Higher Education full-time student numbers are continuing to grow (figure 11).

**Figure 11: Full-time admission to Higher Education 1996 - 2000, by type of course**

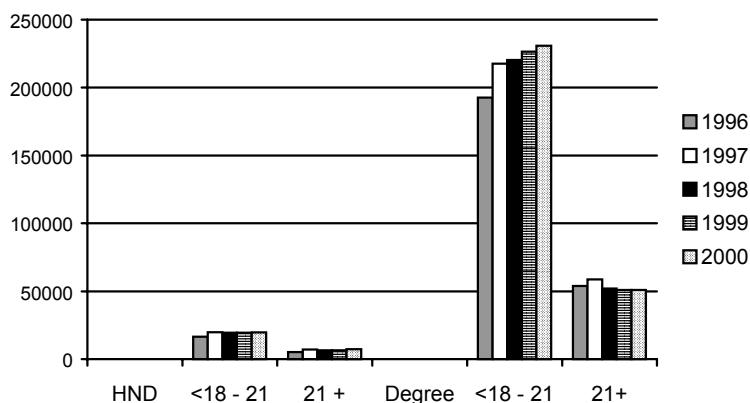


Source: UCAS statistics: first year admissions

‘Traditional’ students – i.e., those starting their courses before the age of 21 - form the very large majority of students (Figure 12). The number of admissions has risen over the past five years, but this overall figure hides the situation for mature students. The numbers of full-time mature students appear to be broadly stagnating over the past five years.

**Figure 12: Full-time admission to Higher Education 1996-2000, by type of course and by age**

Source: UCAS statistics



While the number of mature full-time students remains constant, they form a smaller proportion of all full time students. Table 8 shows more clearly the decline in the proportion of full-time students who are mature.

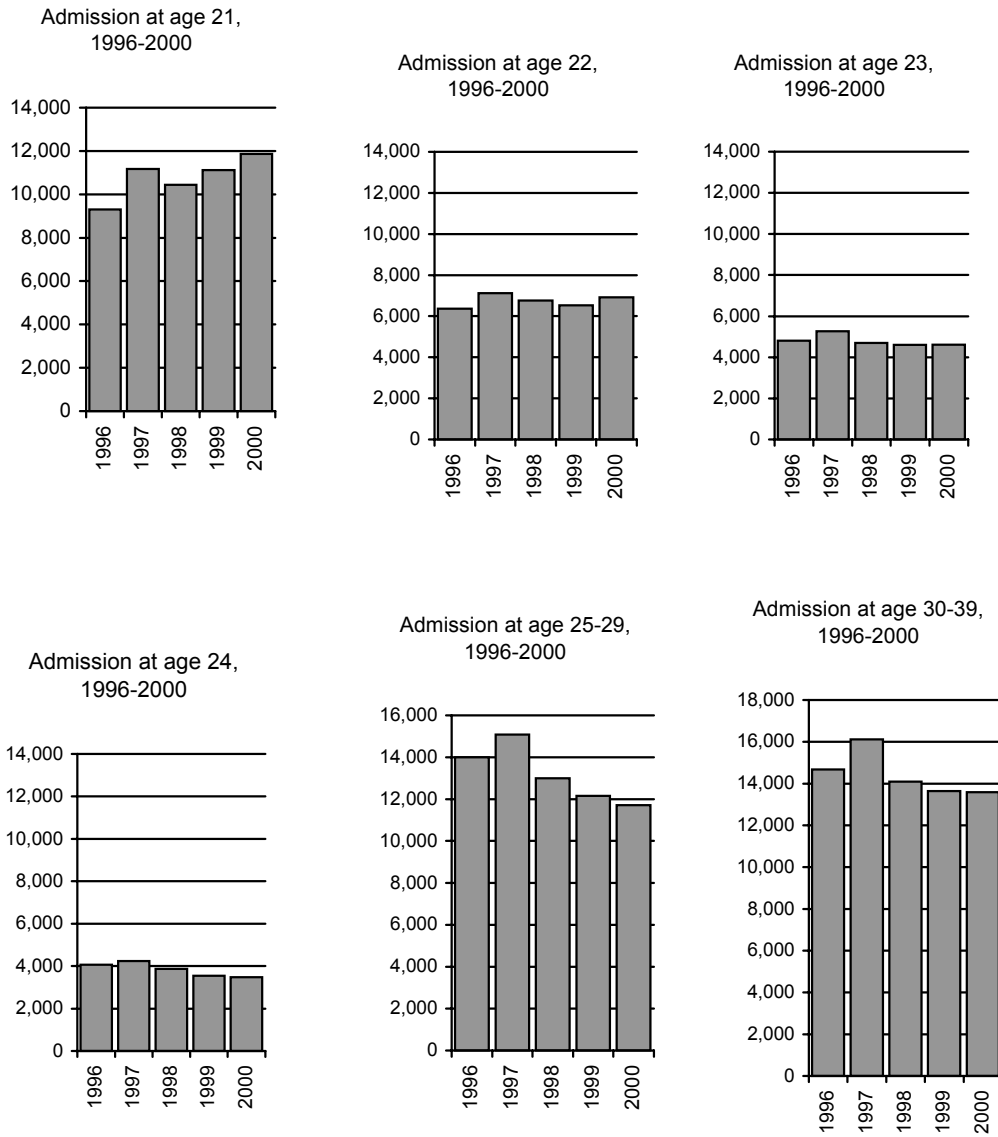
**Table 8: Full-time students, 1996 – 2000, proportion of mature students**

	All students	<18 - 20	21-24	>24	21+	Mature students (over 21) as a % of all
1996	268,289	209,096	24,542	34,651	59,193	22.06
1997	303,318	237,519	27,813	37,986	65,799	21.69
1998	298,220	239,663	25,772	32,785	58,557	19.64
1999	303,065	245,626	25,804	31,635	57,439	18.95
2000	308,718	250,549	26,885	31,284	58,169	18.84
Change 1996-2000	40,429	41,453	2,343	-3,367	-1,024	-3.2

Source: UCAS statistics: first year admissions

Figure 13 breaks down full-time UCAS admissions by individual age. It shows that ‘younger’ mature students – those starting their courses at 21 and to a lesser extent at 22 – are continuing to grow in number, while the numbers of students who start their full-time studies from age 23 onwards are in decline (figure 13). It may be that this partly represents an increase in the number of young people deferring the point at which they start HE, though most deferrals are for only a year. Most school leavers who took a two year 'gap' would still be classified as starting before the age of 21.

Figure 13: Changes in admission numbers by specific ages of entry, full-time mature students



Source: UCAS admissions. Note numbers are aggregated for 25 – 29, 30 – 39, single years 21 to 24

There is also a rather complex gender difference, shown in Table 9.

**Table 9: Gender of full-time mature students, 1996 - 2000**

	21-23 male	21-23 female	24-29 male	24-29 female
1996	11309	9163	9417	8605
1997	12943	10622	9793	9533
1998	12055	9848	8625	8236
1999	12082	7809	10172	7891
2000	12532	10867	7389	7811
Change 1996-2000	1,223	1,704	-2028	-794

Source: UCAS admissions

Table 9 shows that there are more male ‘younger’ matures than there are female. However, these figures are quite volatile over the period and it is difficult to discern any clear trends.

*(ii) Part-time students*

Part-time students are not recorded in the UCAS data. The HESA statistics record both full-time and part-time students.

**Table 10: Numbers of Home Students, Full-time, England domiciled students, UCAS and HESA returns**

	HESA			UCAS		
	First degree	Other UG	All	First degree	HND	All
1994/95	273,585	46,979	320,564	228,685	22,607	251,292
1995/96	273,494	45,312	318,806	240,710	24,826	265,536
1996/97	276,293	45,053	321,346	246,503	21,785	268,288
1997/98	290,449	44,680	335,129	276,503	26,815	303,318
1998/99	283,302	43,374	326,676	272,340	25,880	298,220
1999/00	281,966	40,583	322,549	277,340	25,725	303,065
2000/01	286,749	49,036	335,785	281,809	26,909	308,718
Change 1994/5-00/01	13,164	2,057	15,221	53,124	4,302	57,426

Sources: UCAS, Annual returns, HESA Annual returns; DfES private communication

Much of the variation in the full-time and other undergraduate provision shown in the HESA data is because of the way that Open University students have been categorised (all undergraduates were classified as other undergraduate to 1997/8, since when they have been split between first degree and other undergraduate). Figure 9 shows this year, and should be referred to in conjunction with Figures 8 and 10, which represent years that are possibly less erratic. The discrepancy between HND numbers (UCAS) and Other Undergraduate level numbers (which here include HNDs) (HESA) is explained by the various other forms of courses offered at undergraduate level, which will be explored below. Some of the difference between HESA and UCAS data on full-time students will also be due to some full-time undergraduates applying directly to institutions rather than through UCAS.

Table 11 gives the HESA data for admission of UK home, English domicile students, to undergraduate level courses. These suggest that the principal area of expansion among part-time students has been ‘Other Undergraduate level’ courses, which have just over doubled in intake over six years, rising from 18.1% of total first-year enrolments in 1994 to 31.5% of enrolments in 2000. This increase is shown graphically in Figure 14.

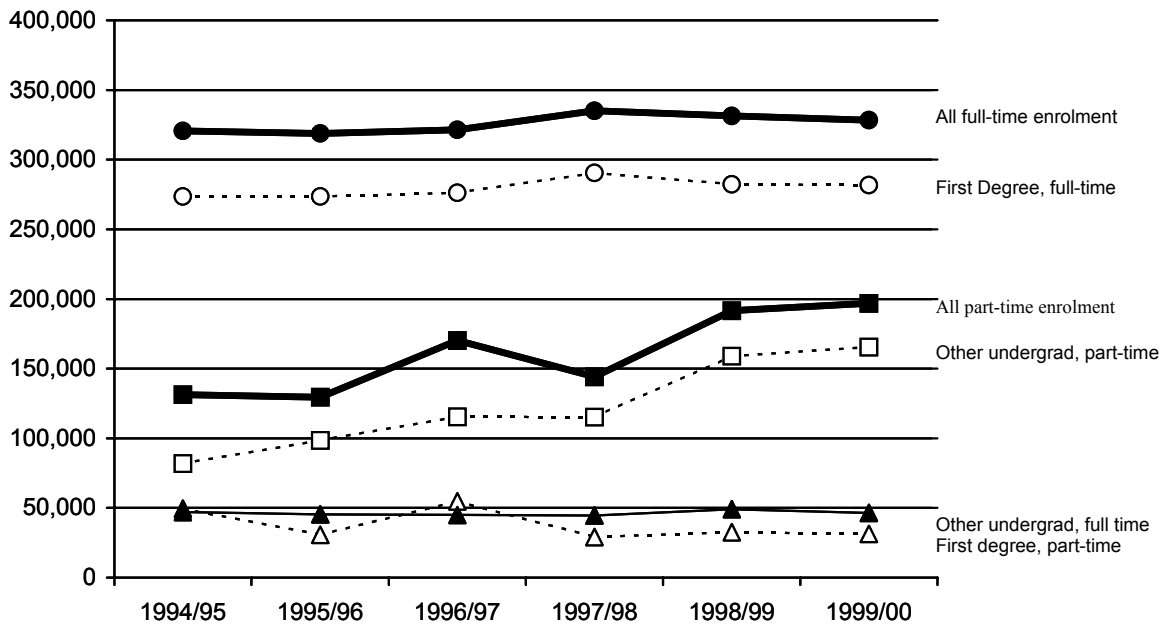
What is most significant is the relatively much larger proportion of part-time than full-time students who are following undergraduate level courses that are not first degree courses

**Table 11: Enrolment by mode and level, all students, 1994 – 2000**

	HESA					
	First degree		Other UG		All	
	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time
1994/95	49,425	273,585	81,850	46,979	131,275	320,564
1995/96	30,771	273,494	98,622	45,312	129,393	318,806
1996/97	54,805	276,293	115,433	45,053	170,238	321,346
1997/98	29,074	290,449	115,126	44,680	144,200	335,129
1998/99	32,630	282,302	158,886	43,374	191,516	326,676
1999/00	31,410	281,966	165,480	40,583	196,890	322,549
Change 1994/5-99/00	18,015	-8,381	-83,630	6,396	-65,615	-1,985

Source: *Students in Higher Education Institutions 1999/2000*, HESA, 2001

**Figure 14: Enrolment by mode and level, all students, 1994 - 2000**

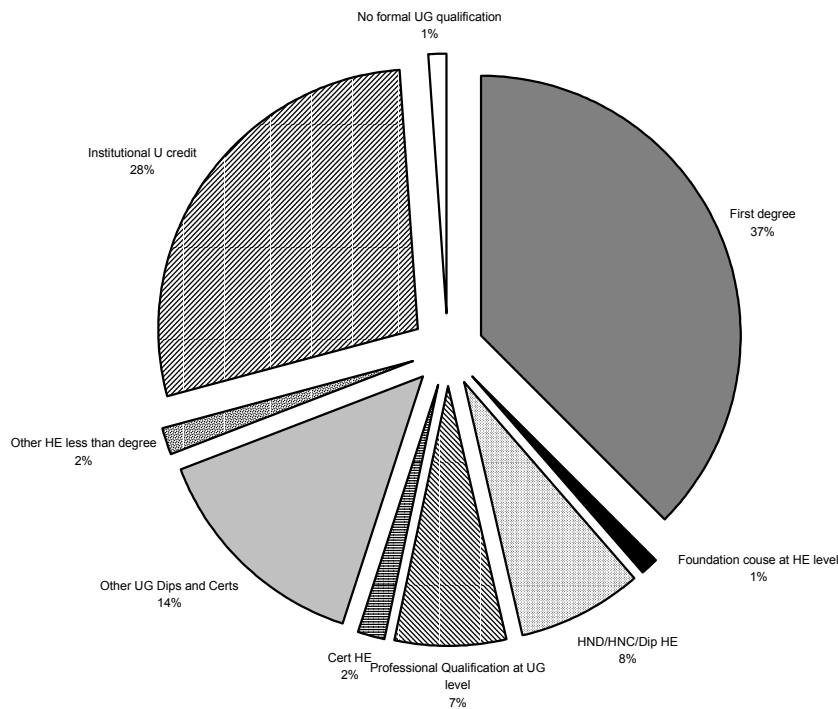


Source: *Students in Higher Education Institutions 1999/2000*, HESA, 2001

The qualifications aimed at by mature students in the 2000 intake are shown in Figure 15. This suggests that 63% of mature students (aged 21-30) are concentrated on non-degree courses. A very significant proportion of these mature students appear to be aiming at acquiring undergraduate level credits from their Higher Education institutions (28%), or undergraduate level certificates and diplomas, HND and HNCs (24%). 7% are aiming at professional qualifications that are at undergraduate level.

Figure 16 shows the same group of mature students with their highest qualifications on entry. At least 13.1% have clear graduate qualifications on entry, and a further 20.5% have HE credits, other HE qualifications or professional qualifications. This suggests that at least a third of the current mature student enrolment cannot be considered as contributing to the increase in access to HE, but are 'returners' at undergraduate level.

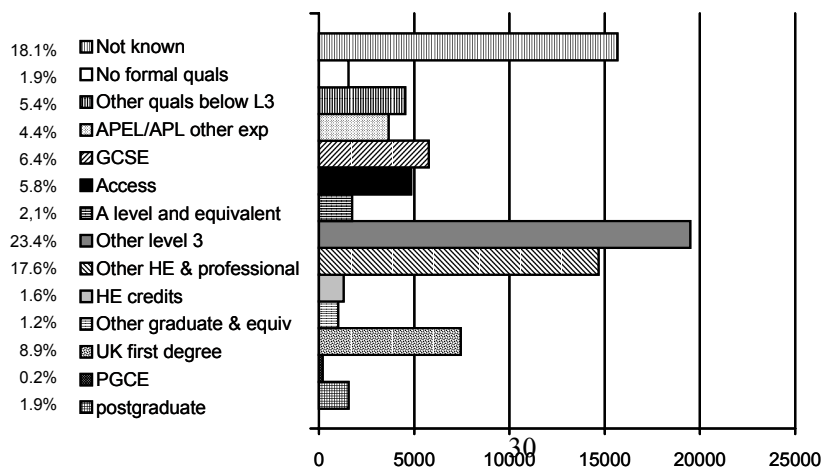
**Figure 15: Qualification aim of English domiciled home students aged 21 - 30 admitted to HE institutions, autumn 2000**



Source: HESA. Note that all HESA data from this point on includes all students at HE Institutions, and all students following HE courses at FE Colleges who make a return to HESA

**Figure 16: Highest qualification on entry, English domiciled home students aged 21 - 30 admitted to HE institutions, autumn 2000**

Source: HESA



We now turn to consider the social class backgrounds of mature students. This has been noted above (table 3, 4 and 5) with reference to full-time students. The only data on social class backgrounds of students is from UCAS. As noted before, UCAS data only covers full-time undergraduates that enter through UCAS and so will not be representative of mature students many of whom study part-time and/or apply directly to institutions. UCAS data suggests that full-time mature students are largely in the intermediate class (II). Although the absolute numbers for social classes IIIIn, IIIIm, IV and V are smaller, the mature student route is more significant for these classes than for those from higher social class backgrounds (from Table 4: 4.6% of class I who enrol in HE do so as mature (21 - 30 year olds), 10.4% of class II, 23.7% of class IIIIn, 13.1% of class IIIIm, 23.5% of class IV and 17.0% of class V). The proportion of full-time mature students from each particular social class is shown in the following table, which shows that proportionately more of the post 21 entry is from social classes IIIInm and IV, though not for IIIIm or V.

**Table 12: HE full-time entry by social class and age, 2000**

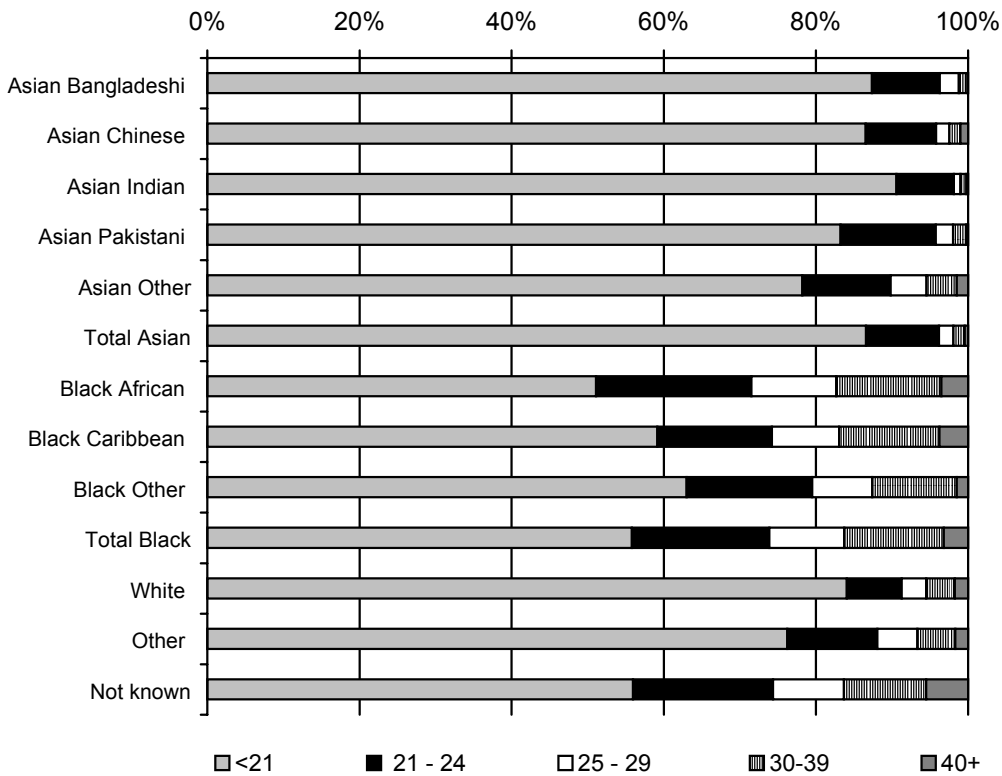
age	Social class					
	I Professional	II Intermediate	IIIIn Skilled non-Manual	IIIIm Skilled Manual	IV Partly Skilled	V Unskilled
under 21	15.3	44.5	12.4	17.4	8.2	2.1
21-29	5.6	33.8	25.7	15.8	16.3	2.7
30 - 39	4.1	39.7	22.1	16.1	15.9	2.0

Source: UCAS 2000. Excludes those where social class is not known

There have been some changes in starting dates by different social classes in recent years. In particular, the skilled manual group students (IIIIm) appear to be entering HE at younger ages than was the case previously, and earlier than skilled non-manual students (IIIInm). This may be due to changes in when members of these social classes achieve entry qualifications. Finally, the ethnic characteristics of mature students are different from those of 'traditional' students. Over 80% of full-time undergraduates who enter via UCAS from all Asian ethnic groups (except 'Asians Other') and whites enter as non-mature students. Black groups (and those whose ethnic origin is not known) all tend to have around 40% of their numbers as mature students. There are some interesting gender variations within these broad figures: while in the Black Caribbean group, males start younger than females, in all other Black groups females are significantly younger starters than males. In the Asian groups, the differences are less, but Indian and Bangladeshi origin females tend to start earlier than the males and the reverse is true of Pakistani and Chinese origin students.



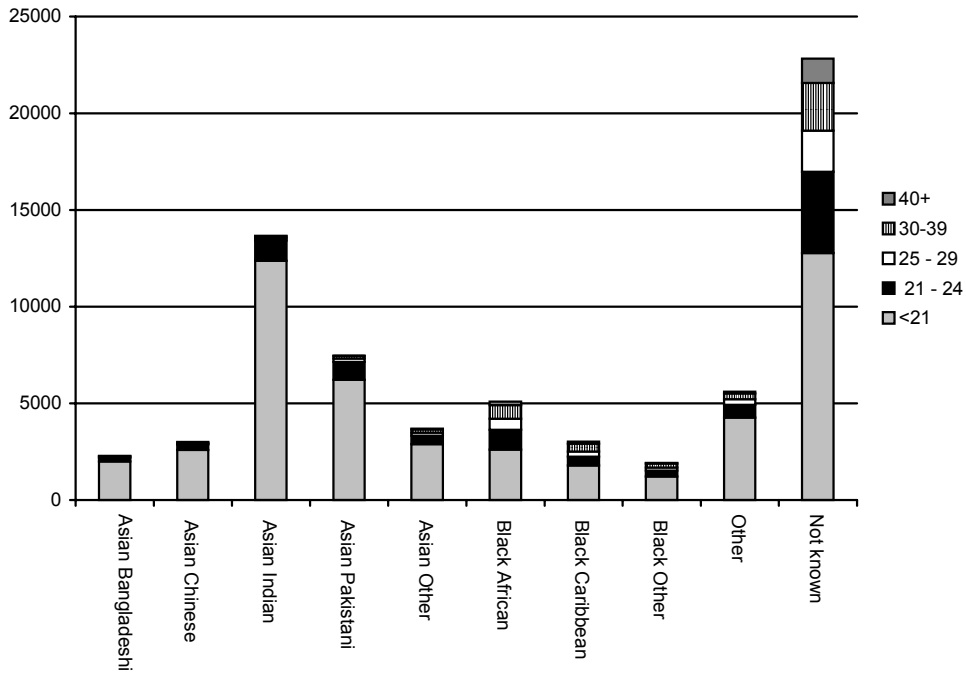
**Figure 17: Ethnicity and Age - 2000 full-time entrants, HND and Degree (UCAS)**



Source: UCAS

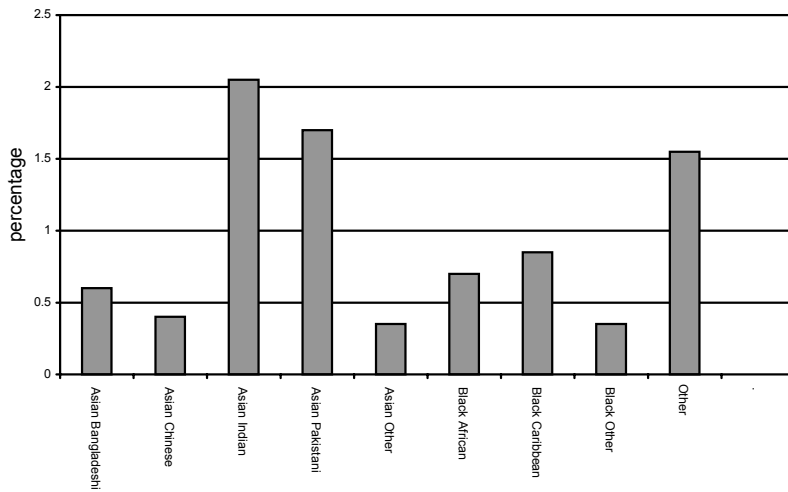
Figure 17 is only for full-timers applying through UCAS and given the nature of some ethnic groups' participation in HE this may well not be representative. However, the distribution of the ethnic minorities in Higher Education does not reflect their distribution in the population as a whole in the younger age groups. Figure 18 shows that a particularly high number of young Asian Indian origin students enter HE, and that smaller numbers of Asian Bangladeshi and Black Caribbean students do so. Figure 19 shows that Asian Indian young people form a smaller proportion of the population (using data for the 15 – 24 age range, which is all that is available from the Office of National Census).

Figure 18: Numbers of Ethnic Minority students, 2000 full and part-time entry, with age on entry



Source: HESA 2000

Figure 19: Distribution of ethnic minority groups in the 15–24 population, Great Britain

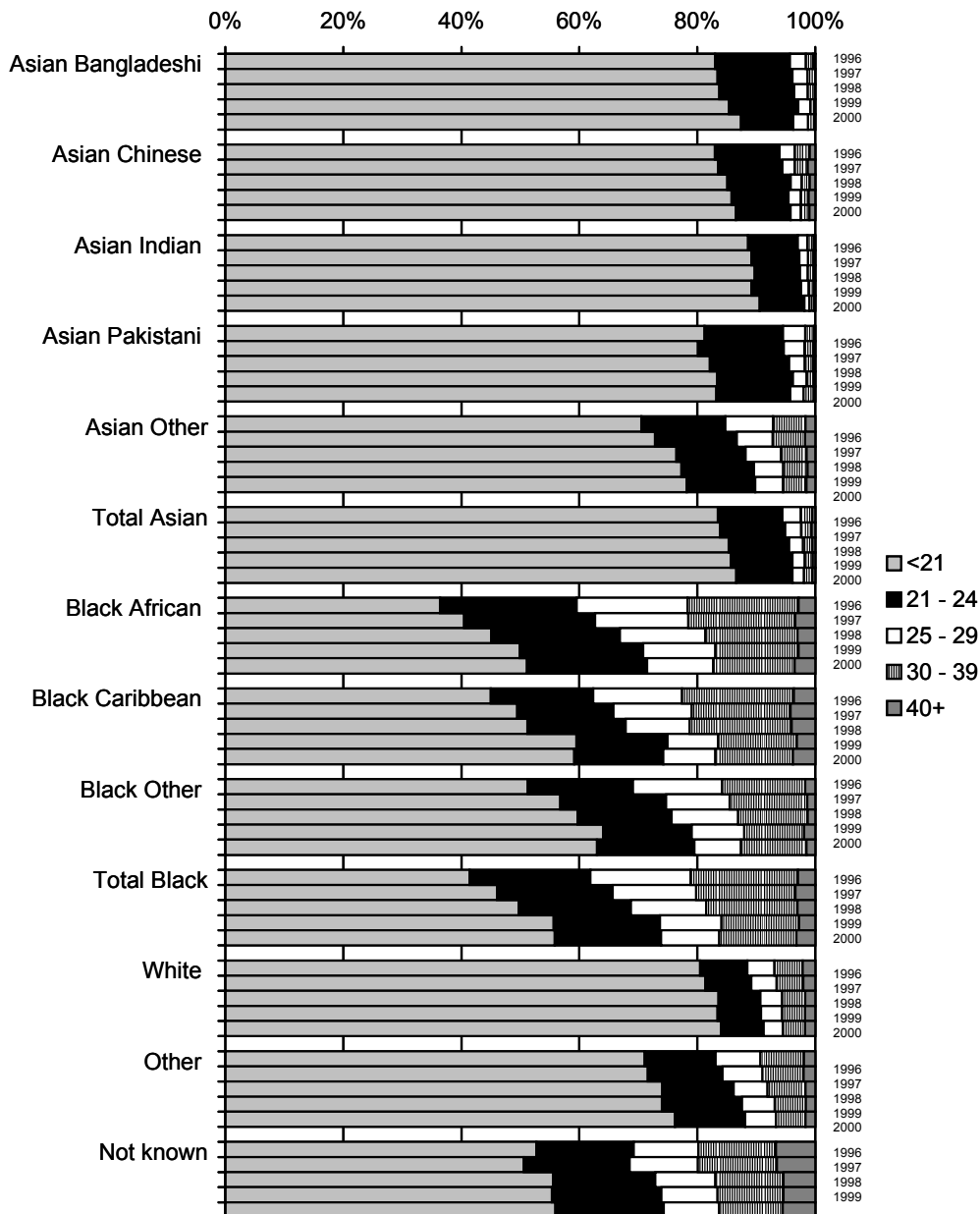


Source: *Population Trends 96*, The Ethnic Minority populations of Great Britain: latest estimates. Table 4, p 40. 1999. ONS

Figure 20 shows the changes over the past five years for each ethnic group, in terms of the age at which they commence full-time Higher Education. Of note in all cases is the

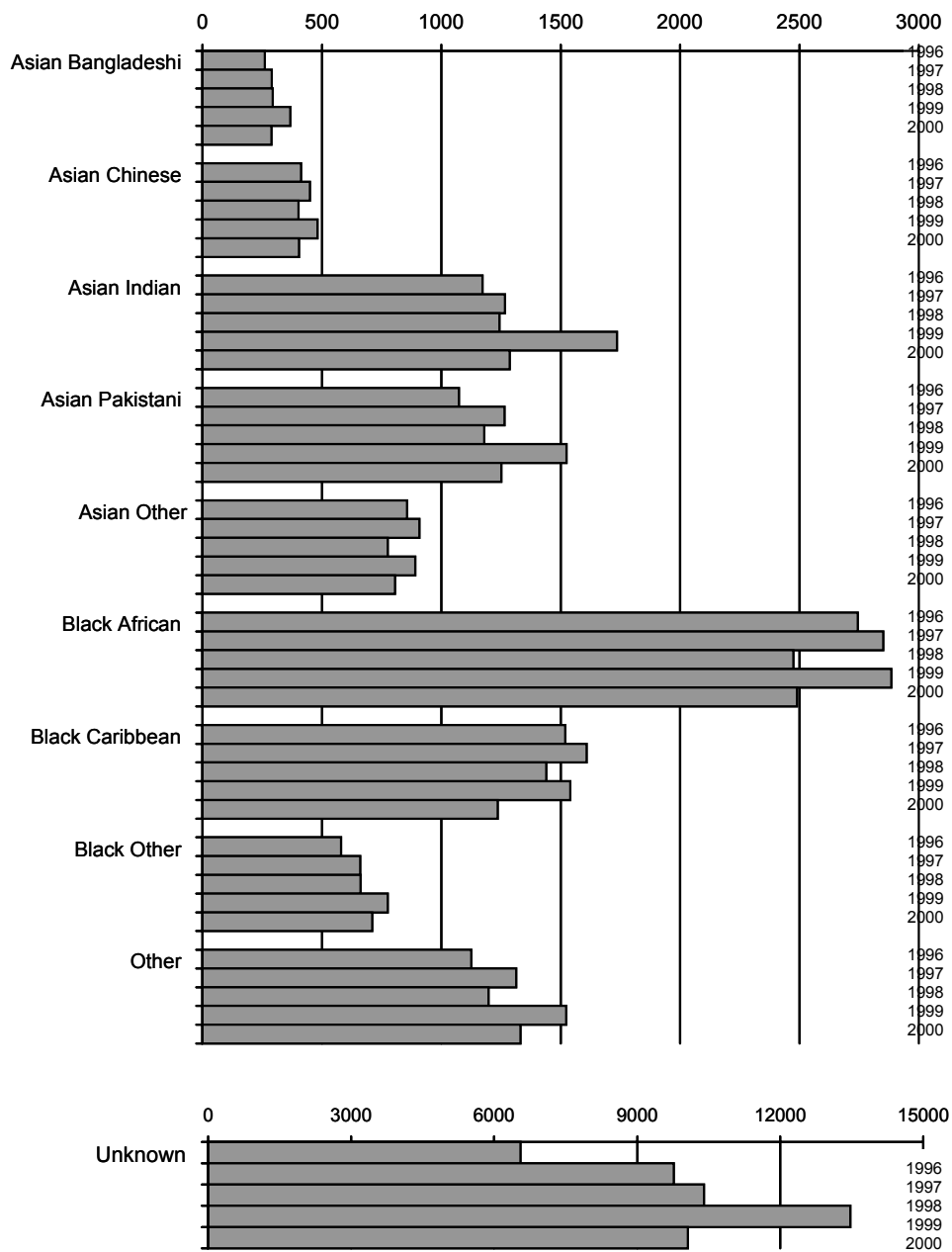
increasing proportion of those starting HE before 21, but of particular note is the situation in the various Black groups, where there has been a very great shift from mature entry to younger entry.

**Figure 20: Changes in ages enrolling full-time in Higher Education, 1996 – 2000: different ethnic groups**



| Source: UCAS, 1996 - 2000

Figure 21: Numbers of full-time mature students from ethnic minorities starting HE courses each year 1996 - 2000 (age over 21)



Source: UCAS

Finally, Figure 21 is a reminder of the very small number of mature students from the ethnic minorities who are recruited as full-time students. Although the Black population in this age group is only about 40% of the size of the Asian population, Black mature students are highly

represented in the mature entry figures, and particularly the Black African group. Over the period, about 55% of all full-time ethnic minority mature students have been from a Black group.

Table 13 shows the proportion of each ethnic group in the 20 – 29 population, and the proportion of each ethnic group in the population enrolling as full-time students between 21 and 30 in the following year.

**Table 13: Proportions of ethnic groups in the age group 20/21 – 29: total population and population enrolling as full-time students**

	Population aged 20-29 (thousands)	Full-time students, 21-29	% of total 20-29 population	% total full-time students enrolling, aged 21-29
Asian Bangladeshi	197	261	0.47	0.68
Asian Chinese	137	330	0.41	0.85
Asian Indian	895	1,150	1.79	2.98
Asian Pakistani	573	1,105	1.36	2.86
Asian Other	174	604	0.37	1.56
Black African	319	1,608	0.88	4.17
Black Caribbean	502	723	0.94	1.87
Black Other	161	469	0.28	1.22
White	52,921	25,062	92.60	64.93
Other	453	957	0.91	2.48
Not known	14	6,330	0.00	16.40
Total	56,346	38,599	100.00	100.00

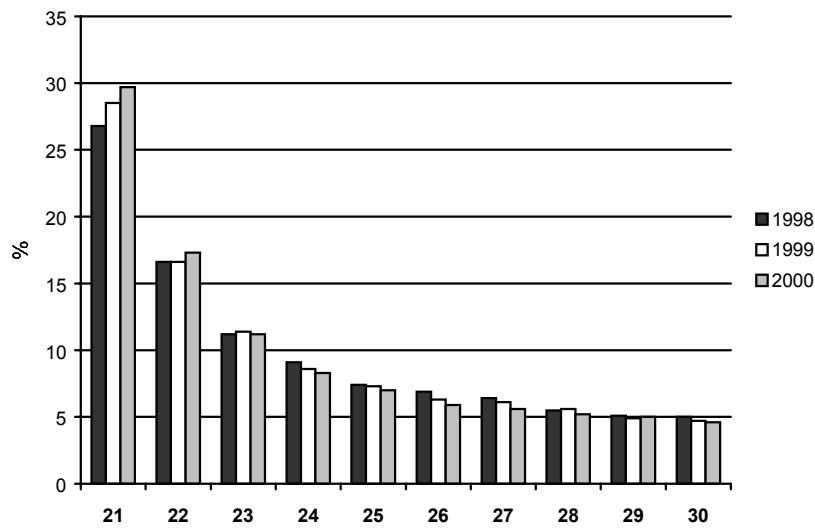
Sources: population: estimates of population by age and ethnic group, GB, calculated from Table 4, in Schuman, J. “The ethnic minority populations of Great Britain – latest estimates”, in *Population Trends* 96 (Summer 1999); student numbers, UCAS returns, 2000. Note that the two populations are not exactly the same: the population statistics are for GB (England approximately 90% of this), and the two sets of data are not precisely the same age range, even allowing that the 1999 population will have aged by one year when compared to the 2000 student enrolment figures.

This shows that all ethnic minority groups are more likely to enrol in full-time higher education courses as mature students (21-30) than their white counterparts. Indeed, while some 92.6% of the age range are white, only 65% of those enrolling as mature students are white.

It is also interesting to examine the nature of mature students’ participation in terms of their mode and subject of study. Mature students who undertake full-time courses seem more likely to start these when they are younger. The numbers starting such courses fall away sharply after the age of 24. Part-time courses, on the other hand, become more popular than full-time courses after this age.

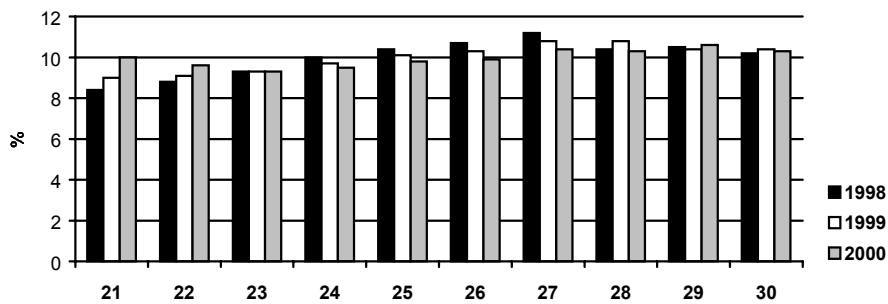
Figures 22 and 23 show the distribution of ages of enrolment of 21 - 30 year old students on full-time and part-time courses respectively. In the full-time group, 54.6% in 1998 (rising to 58.2% in 2000) of those who would eventually enrol had enrolled by the age of 23. In the part-time group, only 26.5% of those who would enrol had enrolled by age 23 in 1998 (rising to 28.9% in 2000).

**Figure 22: Mature full-time students by age of enrolment (% of all full-time students enrolling between 21 and 30 year olds)**



Source: HESA, Autumn enrolments 1998 - 2000

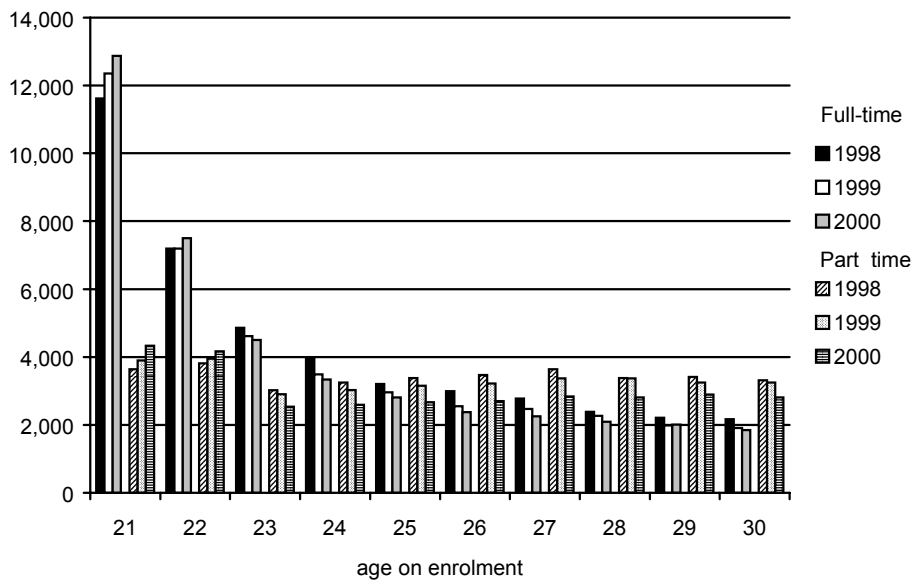
**Figure 23: Mature part-time students by age of enrolment (% of all part-time students enrolling between 21 and 30)**



Source: HESA, Autumn enrolments, 1998 – 2000

However, in terms of trends in numbers recruited, it is noticeable that both full and part-time courses show the same characteristics: in recent years, while recruitment of the younger mature students has increased in both modes, it has also declined for students in their mid to late 20s in both modes.

Figure 24: Numbers of mature students recruited by mode of study, 1998 - 2000, by age on entry



Source: HESA

The first triad of each set of vertical bars (black, white and grey) shows full-time mode entrant numbers, and the second triad in each set (patterned bars) shows the part-time entrant numbers.

Past the age of 22, the numbers entering are lower. 21 and 22 year olds are much more likely to enrol on full-time courses. Once past 25, more mature students enrol on part-time than full-time courses.

‘Other’ modes (e.g. sandwich, etc.) constitute only about 5% of the total for the age range, and have therefore been omitted from this analysis.

Finally, the pattern of subject courses for mature students differs from that of those under the age of 21. The pattern is complex, and Table 14 and Figure 25 are attempts to establish the significant trends.

**Table 14: Most popular subjects of choice for non-mature and mature student study, 1996 and 2000: % of full-time students studying selected subjects, by age on enrolment**

*Each column shows the ten most popular subjects chosen by students in the age range in each year, and lists them in rank order (most popular first), with the percentage choosing that subject*

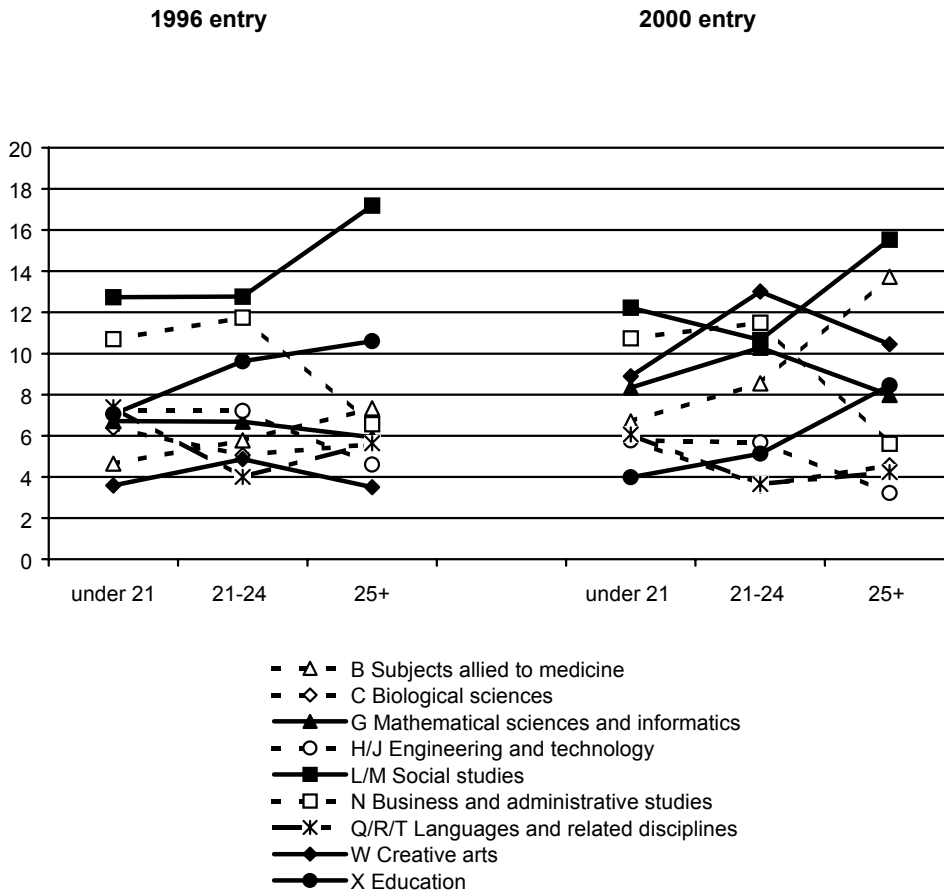
1996			2000		
Under 21	21-24	25 – 30	under 21	21-24	25 – 30
Social studies 12.7	Social studies 12.8	Social studies 17.2	Social studies 12.2	Creative arts 13.0	Social studies 15.5
Business and administrative studies 10.7	Business and administrative studies 11.7	Education 10.6	Business and administrative studies 10.7	Business and administrative studies 11.5	Subjects allied to medicine 13.7
Languages and related disciplines 7.4	Education 9.6	Subjects allied to medicine 7.3	Creative arts 8.9	Social studies 10.7	Creative arts 10.4
Engineering and technology 7.2	Engineering and technology 7.2	Other general and combined studies 6.7	Mathematical sciences and informatics 8.3	Mathematical sciences and informatics 10.3	Education 8.5
Education 7.1	G Mathematical sciences and informatics 6.7	Business and administrative studies 6.6	Subjects allied to medicine 6.7	Subjects allied to medicine 8.5	Mathematical sciences and informatics 8.0
Mathematical sciences and informatics 6.7	Other general and combined studies 6.1	Mathematical sciences and informatics 5.9	Languages and related disciplines 6.1	Engineering and technology 5.7	Business and administrative studies 5.6
Biological sciences 6.4	Subjects allied to medicine 5.8	Languages and related disciplines 5.6	Biological sciences 5.8	Education 5.1	Biological sciences 4.6
Physical sciences 6.3	Biological sciences 5.1	Biological sciences 5.6	Engineering and technology 5.8	Science combined with social studies or arts 4.6	Languages and related disciplines 4.2
Subjects allied to medicine 4.6	Creative arts 4.9	Humanities 5.5	Physical sciences 4.8	Languages and related disciplines 3.6	Humanities 4.0
Humanities 4.2	Languages and related disciplines 4.0	Engineering and technology 4.6	Science combined with social studies or arts 4.2	Biological sciences 3.6	Science combined with social studies or arts 3.8

Source: UCAS, 1996, 2000

The subject choices of mature students are concentrated in a narrower band of subjects than are the choices of younger students. There are differences in emphasis between 1996 and 2000. The social subjects remain the most popular choice of mature (and non-mature students), but are slightly less popular than in 1996. Subjects allied to medicine and Creative Arts are increasing in popularity, as is, to a lesser extent Mathematical sciences and informatics.



Figure 25: Percentages of students in different age bands selecting subjects: 1996 and 2000 full-time enrolments

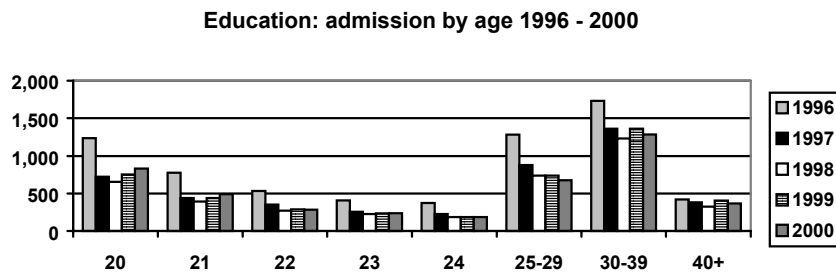


Sources: UCAS 1996, 2000 (as Table 13)

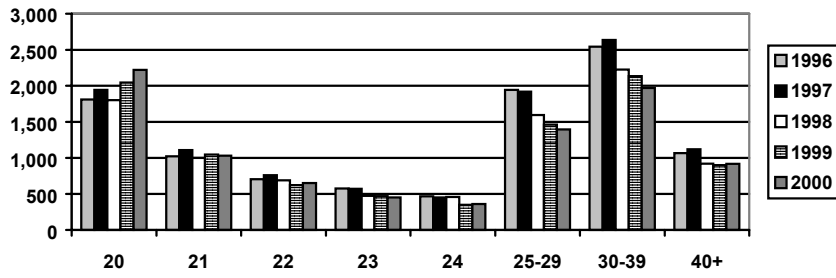
(Note: this figure is shown as continuous data for the ease of the reader: the data is, of course, of separate observations)

The following set of figures illustrate changes in enrolment in the six most popular subjects for mature students over the past five years, showing changes in admission age each year.

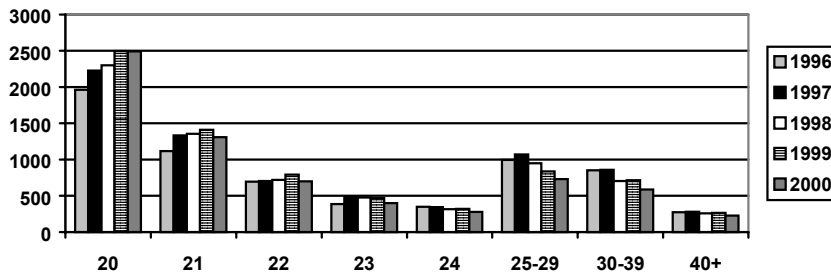
Figure 26: Mature students' admission to selected subjects, by age on enrolment, 1996 - 2000



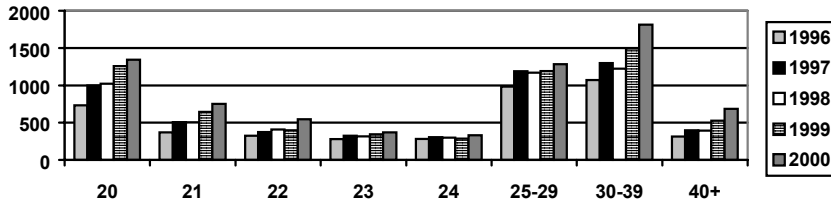
**Social Studies: admission by age 1996 - 2000**



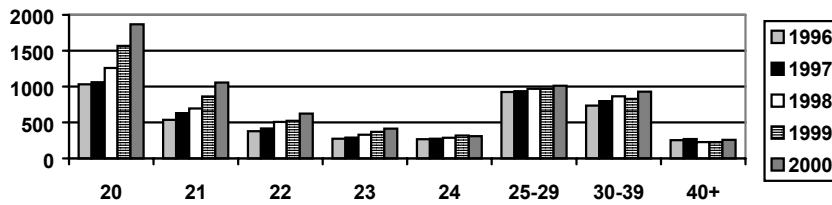
**Business and administrative studies: admission by age 1996 - 2000**



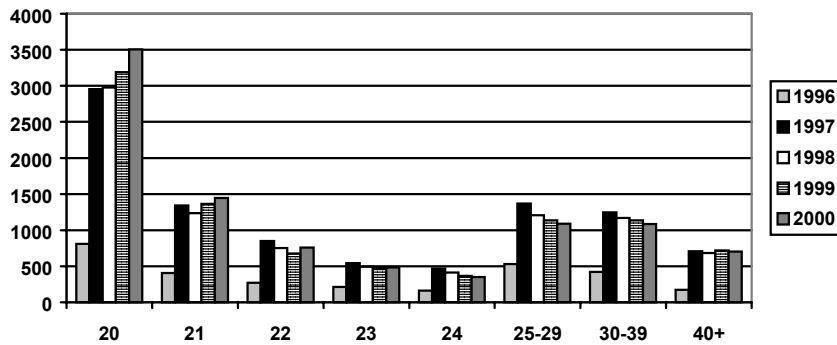
**subjects allied to Medicine: admission by age 1996 - 2000**



**Mathematical sciences and informatics: admission by age 1996 - 2000**



**Creative arts: admission by age 1996 - 2000**



Source: UCAS 1996 - 2000

Social studies, subjects allied to medicine, business and administration and creative arts have a very dominant position in the 21-30 year group of mature students. Subjects allied to medicine are also very important in the 31 – 39 age ranges. The prominence of these subjects may be in part a response to their perceived utility by some students, but there are other factors involved, such as the availability of NHS resources for training particular groups of workers. The analysis of the most popular six full-time subjects by age on admission and years (Table 13) shows that the situation is by no means static: social studies courses are declining in popularity among mature students, while business and administration is in a slower decline. It is also noticeable that some of these subjects have a distinctly different age profile – ‘older’ mature students focussing on subjects allied to medicine, social studies and education, ‘younger’ matures in business and administrative studies.

## SECTION B: MATURE NON-PARTICIPANTS

### 21-30 Year Old England-Resident UK Nationals (1993-2001)

The series of charts in Appendix 1 observe highest qualifications held by 21-30 year old British nationals from 1994 to 2001. The relationships between age, gender, class, ethnicity and region are also included here. This data is derived from the quarterly labour force surveys, all conducted in the period December- February (winter). Our analysis is restricted to British nationals aged 21-30 resident in England.

Since spring 1997 the Department for Education and Skills has allocated all the various qualifications recorded by the LFS's questions on highest qualifications held to different National Vocational Qualification Levels in the way shown in table 15.

**Table 15: Relationship between highest qualification in QLF Surveys and NVQ levels**

Highest qualification	Degree and above	Level 4 below degree	Level 3	Level 2	Level 1
Higher degree	Yes				
NVQ level 5	Yes				
First degree	Yes				
Other degree	Yes				
NVQ level 4	Yes				
Teaching, further education	Yes				
Teaching, secondary education	Yes				
Teaching, primary education	Yes				
Teaching, level not stated	Yes				
Nursing, etc	Yes				
Diploma in higher education		Yes			
Other HE below degree		Yes			
HNC, HND, BTEC etc higher		Yes			
RSA higher diploma		Yes			
A-level or equivalent			If 2+	If 1	
Scottish CSYS			67%	33%	
SCE higher or equivalent			If 3+	If 1 or 2	
A, S level or equivalent			If 4+	If 2 or 3	If 1
RSA advanced diploma			Yes		
OND, ONC, BTEC etc national			Yes		
City & Guilds advanced craft			Yes		
Trade apprenticeship			50%	50%	
NVQ level 3			Yes		
GNVQ advanced			Yes		
O level, GCSE grade A-C or equiv				If 5+	If <5
NVQ level 2				Yes	
GNVQ intermediate				Yes	
RSA diploma				Yes	
City and Guilds craft				Yes	
BTEC, SCOTVEC first or gen dip				Yes	
CSE below grade 1, GCSE below C					Yes
NVQ level 1					Yes
GNVQ, GSVQ foundation level					Yes
BTEC, SCOTVEC first or gen cert					Yes
SCOTVEC modules					Yes
RSA other					Yes
YT, YTP certificate					Yes
Other qualifications			Other 10%	Other 35%	Other 55%
Don't know/NA	Pro rata		Pro rata	Pro rata	Pro rata

We have only been partly able to use this with the QLFS data, because before spring 1997 the information recorded in the survey is insufficiently detailed about current study (it does not, for example, record the number of A-levels being studied for). We have, however, adopted it for analyses of highest qualification held. It should be noted that the highest qualification held field in the QLFS, which itself is a variable derived from responses to a number of questions, changed in 1997. Appendix A, particularly A1, shows what appears to be an anomalous leap in the proportion of 21 to 30 year olds at NVQ level 1. This, we believe, is due to this new highest qualification variable, with proportionately more individuals assigned to the “O Level below grade C or equivalent” category than in previous or subsequent years. The approach used is detailed in following sections.

The proportion of the 21-30 year old population with a level 4 or higher qualification rose from 23% in 1994 to 29% in 2001 (A1). In addition, the proportion of this age group holding a level 3 qualification has risen from 15% to 21% whilst the proportions without qualifications has been declining (A1). However, it should be noted that changes were made to the way in which qualifications were coded in the LFS in 1997. Nonetheless, it would appear that more females are gaining level 3 and level 4 qualifications (A3). In 1994, 36% of females held at least a level 3 qualification. This rose to 48% in 2001. These figures are derived from A3 by summing the proportion of females with a level 4 qualification and the proportion with a level 3 qualification. The gender balance amongst 21-30 year olds holding a level 4 qualification or higher has been fairly even since 1994, although the LFS data shows that 52% of this population was female in 2001 (A21). This may be a result of sampling. The UCAS data shown in Figure 14 show that, among the 21 – 30 population, more males than females enter full-time higher education. The HEFCE Performance Indicator reports however, show that females are less likely to withdraw than males.

Analyses by class (A4 to A13) indicate that proportionately more and more professional, intermediate and skilled non-manual individuals hold level 4 qualifications, with participation amongst the professional classes approaching saturation (A4). This is something of a tautology. Holding a degree is a key to a higher social class based on employment status. What we do not hold data on is social class at age 18 or some other variable defining social class prior to entry into higher education.

However, the LFS data do show large proportions amongst the skilled non-manual (A6) and manual classes (A7) with at least level 3 qualifications, around 34% with respect to the former and 49% to the latter. Skilled non-manuals increasingly hold level 4 qualifications, from 17% in 1994 to 24% in 2001 (A6). There are differences between men and women. The proportion of males with level 4 qualifications increased from 23% in 1994 to 31% in 2001 (A10), whereas the proportion of females with similar qualifications rose from 14% to 21% over the same period (A11). Amongst the skilled manuals, females are almost twice as likely to hold a level 4 qualification (13% females and 7% males in 2001, A12 and A13).

21-30 year olds living in London are the most likely to hold HE qualifications (A19c). This does not mean that the market for entering HE has been met in London, but that of those now living in London, a high proportion have HE qualifications - many of these will have migrated to London as a location with many openings for graduate employment.

### **Demographics and Characteristics of Non-Participants in HE by Social Class**

In this section estimates are made of recent trends in mature student participation. Participation is defined here as holding a qualification at level 4 or higher although it should be noted that many individuals without a Level 4 qualification have entered higher education without obtaining a qualification.

Quarterly labour force surveys relating to the autumn quarters of 1996, 1998 and 2000 were aggregated. Two year intervals were selected as respondents are replaced over a period of five quarters; hence 20% of respondents surveyed in autumn 1996 were surveyed in autumn 1997. Aggregating QLFS in this way does present some difficulties. In particular, over the four years one would expect the qualifications held by the population to change.

**Table 16: 21-30 year old British Nationals by highest qualification (NVQ equivalents) 1996-2000**

YEAR	Highest qualification				
	<i>L4 or higher</i>	<i>L3</i>	<i>L2</i>	<i>Below L2</i>	<i>None</i>
1996	23.6%	17.8%	21.5%	27.0%	10.1%
1998	27.2	20.4	21.5	22.6	8.3
2000	29.4	22.4	21.3	18.9	10.1
Average	26.6%	17.8%	21.6	23.0%	8.9%

Source: QLFS`

We consider the characteristics of those whose highest qualification is at Level 3 below, following Table 19.

Table 16 shows highest qualifications held by England-resident British nationals aged 21-30 according to the QLFS data files, and the methodology employed by the Department for Education and Skills of allocating highest qualifications to “levels”, with higher education represented by Level 4 or higher. We are unable to use this methodology for the number of qualifications currently being studied for as the QLFS is insufficiently detailed for this purpose for reasons outlined above.

The proportion of 21-30 year olds with a Level 4 qualification or higher is estimated to have increased from 23% in 1996 to 29% in 2000. Alongside this, the proportion of 21-30 year olds with qualifications suitable for university entrance, level 3, has also been increasing, from 17% in 1996 to almost 23% in 2000. The previous section demonstrated that the proportion of 21-30 year olds holding an A-level standard qualification as their highest qualification remaining fairly constant at around 25- 27% over the period 1994-2001. The fact that the proportion at Level 3 increased over this period suggests that proportionately more 21-30 year olds gained 2 A-levels or their equivalent, the “rule of thumb” definition of Level 3.

With the proportion of 21-30 year olds holding level 2 qualifications (equivalent to 5 GCSEs at grade C or higher) remaining fairly constant, the inference is that 21-30 year olds are becoming more highly qualified.

The largest numbers of 21-30 year olds without level 4 are amongst the skilled non-manual classes. 25.4% of non-participating 21-23 year olds, according to aggregated 1996, 1998 and 2000 QLFS data (because we are using data from alternate years, there is no double counting) are female skilled non-manuals, with male equivalents accounting for 11.7% of non-participating 21-23 year olds. However amongst older groups, proportionately more non-participants are of the professional and intermediate classes. Around 60% of 21-23 year old non-participants are employed, compared with 75% in older age groups. Whilst the gender balance of non-participants amongst the professional and intermediate classes tends to be fairly even, skilled non-manual non-participants tend to be predominantly female, and skilled manual non-participants tend to be predominantly male.

Table 17 shows the gender/ class composition of England-resident UK nationals with at least a Level 2 qualification but without a HE qualification within three age groups. The data uses aggregated QLFS data from the autumn of 1996, 1998 and 2000. The reasons for this selection were

- ◆ The data for 1994 appears erratic
- ◆ Using one quarter for each year minimises the repetition of data (each quarterly cohort contains 80% of the previous cohort's interviewees)

It would also have been possible to use average data for each year, which may have produced data that recognised changes over the four-year period, but this would then be based on a marginally smaller sample of cases. Aggregating the data over such a time period means that the qualification levels of the population are likely to be underestimated since the qualification levels of the population have risen over time.

**Table 17: 21-30 year old British nationals with at least a Level 2 qualification but without a Level 4 qualification: gender, class and age characteristics: Percentage by gender and class within age group**

Age group		Social Class			
		Professional & Intermediate	Skilled non-manual	Skilled manual	Partly/ unskilled
21-23	Male	8.6	11.7	21.4	10.4
	Female	8.8	25.4	6.0	7.8
24-26	Male	11.6	10.4	21.3	9.2
	Female	11.2	23.4	5.6	7.3
27-30	Male	14.7	8.4	23.2	7.5
	Female	13.0	22.7	4.5	6.1

Source: QLFS, Autumn Quarter data: removing from the data all cases not resident in England, not British nationals, and aged under 21 or over 30.

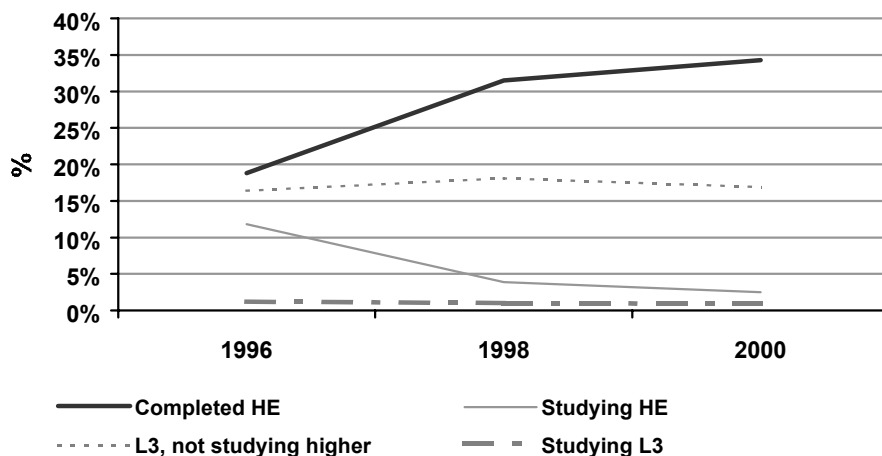
### Cohort Progression Data

This section again uses the 1996-2000 QLFS data (merged, not aggregated, datasets) to observe how pseudo-cohorts become increasingly qualified over time. This section moves beyond highest qualifications held, and incorporates current level of study. However, the QLFS datasets do not contain sufficient detail to map qualifications being studied for to NVQ level equivalents. For instance, studying for 2 or more A-levels converts to Level 3, whilst studying for 1 converts to Level 2, but the QLFS data does not indicate the number of A-levels being studied. It is assumed here that those studying for A/ AS levels are all studying towards Level 3. It is not unreasonable to assume that those studying for A/AS levels are all studying towards Level 3: there are probably few people studying for a single A level as their highest qualification. It should be noted that the data is gathered from different samples in successive years, and that this analysis is therefore of pseudo-cohorts, not true cohorts.

Individuals within the LFS sample have been banded into age groups covering intervals of two years. It can be seen how a cohort gains qualifications as its members get older. Note that LFS respondents are surveyed over five quarters and then replaced. We observe cohorts at two-yearly intervals, hence at each observation, the cohort is composed of entirely different individuals.

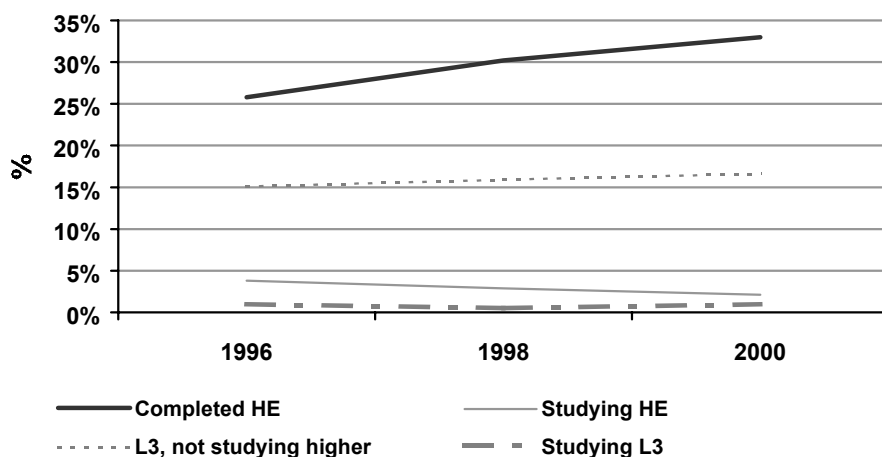
Cohort 1 (Figure 27) were aged 21-22 in 1996. By 1998, the proportion with a HE qualification amongst the cohort had risen to 31.5% from 19% two years earlier. This is unsurprising, as this cohort would have included some 1996 undergraduates, who had entered HE aged 18/19 years, including those who had taken a gap year or who were following a four year degree programme. The proportion with at most a Level 3 qualification hovers between 16% and 18% between 1996 and 2000. The proportion with at least a Level 3 qualification rose from 47% in 1996 to 54% in 2000. This suggests that the population with at most a Level 3 qualification is being replenished as the population at Level 4 or higher increases in number.

Figure 27: Cohort 1- those aged 21-22 in 1996



Cohort 2 (Figure 28) were aged 23-24 in 1996. 26% held a HE qualification in 1996, and this rose to 33% by 2000. In addition, the proportion with at least a Level 3 qualification rose from 45% to 52% over the same period. Again, this would suggest that the population at “Level 3 only” is being replenished as the population at Level 4 or higher increases in number.

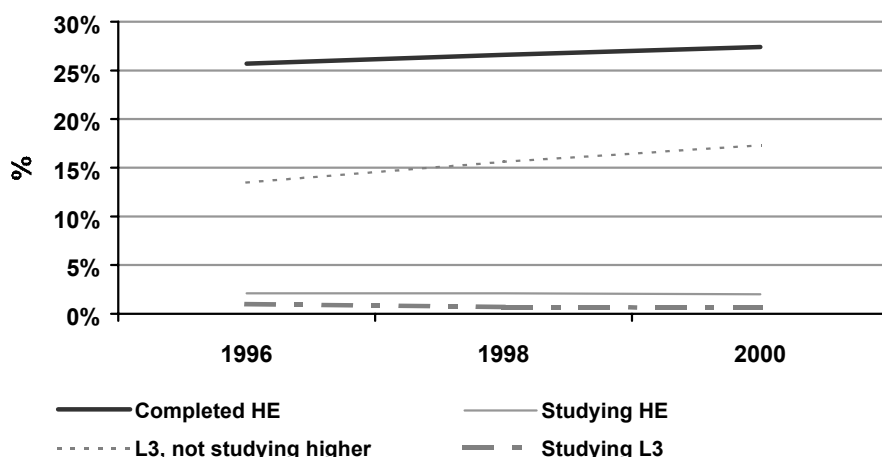
Figure 28: Cohort 2- those aged 23-24 in 1996



Cohort 3 (Figure 29) tells a different story. These individuals were aged 25-26 in 1996. Over the period 1996-2000, the proportion with a HE qualification rose marginally, by two percentage points to 27.4%. As we are dealing with independent samples, we cannot assume this to be significant.



**Figure 29: Cohort 3- those aged 25-26 in 1996**



To assess significance, independent sample t-tests were conducted on the 2000 LFS data. Individuals are banded into age groups with 2-year intervals, and the proportions with a HE qualification, or studying for HE, are calculated. The proportions with a Level 3 qualification or higher (which includes HE entrants) are also calculated.

Returning to two years earlier, the corresponding proportions for the same cohorts have been calculated, and t-tests run to establish whether there is sufficient evidence from the sample to suggest that the proportions are genuinely increasing.

Unsurprisingly, the proportion of 23-24 year olds in 2000 with a HE qualification was significantly higher than the proportion of 21-22 year olds in 1998. Also, the proportion of 25-26 year olds in 2000 at Level 3 or higher was significantly higher than the proportion of 23-24 year olds in 1998.

No other tests were significant, so it could be suggested that proportions gaining a HE qualification show little increase beyond the age of 23, and that the majority of those who will gain Level 3 qualifications will have done so by the age of 26 years. In other words, 23-26 is the time to build on qualifications gained at school. Below (Table 18) we report of the total size of the population with Level 3 qualifications who are not in higher education, and examine some of their characteristics.

### **Modelling the Size of the Non-participating Population**

Elsewhere within this report (Tables 1-7, 9, Figures 17 - 21), the individual (bivariate) relationships of each of age, gender, class and ethnicity on highest qualification obtained have been noted. These associations underpin this attempt to model the size of the 21-30 year old population in England with Level 3 qualifications, but without a higher education qualification, or who are not presently studying in higher education.

The DfES method of converting qualifications to NVQ levels (Table 15) has not been used in this section for two reasons. Firstly QLFS data do not include sufficient detail on qualifications currently being studied for. Secondly, the methodology involves weighting certain types of qualifications to levels. For instance, individuals categorised as having “other” qualifications as highest obtained count 10% to the Level 3 group, 35% to the Level 2 group

and 55% to the Level 1 group. The modelling procedure used requires individuals to be coded fully within a single highest qualification variable.

To circumvent these problems, use has been made of a derived variable within the QLFS datasets which has already converted highest qualifications to the equivalences listed above, and mapped current students to those categories.

Although the groupings used in this analysis are similar to NVQ level equivalents, there are some differences. We can compare total numbers of 21-30 year olds in the groups used in table 18 with total numbers within the NVQ equivalent groups used in table 16, to observe the differences in number between the two approaches. The “A-level” group is smaller than the DFES Level 3 group, and, by contrast, this “GCSE” group is larger than the DFES Level 2 group. We estimate that around 13.5% of our “GCSE” group are at, or studying for, Level 3 and 4% of the “Other” group are at, or studying for, Level 2. [Note- for reasons previously explained, we did not use the DFES methodology here, and so these figures represent an attempt to reconcile the two approaches]. Conversely, less than 1% of those within the “A Level group” are estimated to be at Level 3, whilst 2% of the “GCSE” group are estimated to be below Level 2.

In simple terms, the model produced calculates the probability of being in a particular “highest qualification group” based on age, gender, social class and ethnicity. These probabilities are then applied to population estimates to estimate the size of the non-participating population. Four groups have been identified

- Those with a higher education qualification
- Those with an A Level or equivalent qualification but without a higher education qualification
- Those with GCSE grade A\*-C or equivalent qualifications
- Those without qualifications or with qualifications below A\*-C or equivalent

This method is based on neither causation nor correlation. These groups also include individuals presently studying for such qualifications. However, groups without higher education qualifications will contain individuals who entered, but did not complete, higher education. Prior participation does not of course prevent returning to the higher education sector.

To estimate the probabilities of group membership, data from autumn quarterly labour force surveys 1998 and 2000 were aggregated to generate sufficient data to model. Data on highest qualifications and current study are collected twice yearly, rather than quarterly and the sample only changes by 20% between each quarter. Data on some 33000 21-30 year old England-resident British nationals were used in the procedure. There are too few cases to compare those who have completed qualifications at HE Level with those who are currently enrolled in Higher Education.

A saturated model has been produced by assigning these individuals to highest qualifications group and then simply cross-tabulating by age, gender, social class and ethnicity to generate, for each combination of the four independent variables, the percentage within each of the highest qualification groups. However, as sample data is being used, randomness will not be removed.

To attempt to remove some of this randomness, a backwards-elimination hierarchical loglinear model was produced, with the fitted values representing the probability of an individual being within each high of the highest qualification groups based on age, gender, social class and ethnicity. To ensure sufficient cases per cell within the model, age, class and ethnicity variables were aggregated. This method was judged the most appropriate to allocate

the data to groups based on the survey counts, given both that this model is not intended to be predictive in nature, and that no causal relationship was being assumed between the independent variables of class and age with the highest qualification obtained (in which case a logit model might be more appropriate).

Differences in higher education participation had earlier been noted within this report between 21-23 year olds, 24-26 year olds and 27-30 year olds. Therefore, these bands were retained to create an age group variable with three levels. Similarly, participation amongst professional and intermediate classes, given small numbers of professionals, led to both classes being aggregated. Skilled non-manual and skilled manual classes were retained, and unskilled and partly skilled classes aggregated due to sharing similar tendencies towards higher education participation. This produced a class variable with four levels (Table 18). Note that the variables are specified in the table, and that a hierarchical backwards elimination model has been employed.

**Table 18: Either Highest Qualification held, or Highest Qualification being studied for, by age, gender, ethnicity and social class, England resident British nationals 1998-2000: Percentage within gender/ age/ ethnic/ class group**

			<i>Highest qualification</i>				
<i>Age</i>	<i>Ethnicity</i>	<i>Class</i>	<i>HE</i>	<i>A Level</i>	<i>GCSE</i>	<i>Other</i>	
			<i>A*-C</i>				
<i>Male</i>	21-23	White	Prof & int	53.2	21.4	14.4	11.0
			skilled non-m	38.8	24.6	22.2	14.4
			skilled manual	11.5	26.0	35.4	27.1
			Partly/ unskilled	17.7	12.4	23.0	46.8
			<b>All Classes</b>	<b>27.8</b>	<b>21.2</b>	<b>24.9</b>	<b>26.0</b>
	Other	Prof & int	63.5	17.3	7.7	11.5	
		skilled non-m	50.0	20.3	12.5	17.2	
		skilled manual	15.8	23.7	23.7	36.8	
		Partly/ unskilled	22.8	10.5	12.3	54.4	
		<b>All Classes</b>	<b>39.8</b>	<b>17.5</b>	<b>13.3</b>	<b>29.4</b>	
	24-26	White	Prof & int	64.5	12.9	12.4	10.1
			skilled non-m	35.1	20.2	24.2	20.6
			skilled manual	10.1	21.4	35.1	33.4
			Partly/ unskilled	10.1	10.5	26.7	52.7
			<b>All Classes</b>	<b>33.5</b>	<b>16.2</b>	<b>23.7</b>	<b>26.6</b>
	Other	Prof & int	73.7	10.1	6.1	10.1	
		skilled non-m	45.6	17.6	13.2	23.5	
		skilled manual	13.6	20.3	22.0	44.1	
Partly/ unskilled		13.7	9.6	15.1	61.6		
<b>All Classes</b>		<b>40.8</b>	<b>13.7</b>	<b>13.0</b>	<b>32.4</b>		
27-30	White	Prof & int	59.7	13.0	14.0	13.3	
		skilled non-m	25.7	20.6	27.3	26.4	
		skilled manual	7.3	19.3	34.6	38.9	
		Partly/ unskilled	6.5	8.1	23.9	61.6	
		<b>All Classes</b>	<b>30.0</b>	<b>15.1</b>	<b>23.8</b>	<b>31.1</b>	
Other	Prof & int	68.6	9.9	7.3	14.1		
	skilled non-m	34.2	18.4	15.8	31.6		
	skilled manual	10.3	18.4	21.8	49.4		
	Partly/ unskilled	8.3	6.9	13.9	70.8		
	<b>All Classes</b>	<b>40.4</b>	<b>12.7</b>	<b>12.9</b>	<b>34.0</b>		
<i>Female</i>	21-23	White	Prof & int	59.2	19.0	14.0	7.8
			skilled non-m	29.7	22.9	28.4	19.0
			skilled manual	20.5	22.8	34.7	22.0
			Partly/ unskilled	25.1	14.8	21.7	38.4
			<b>All Classes</b>	<b>35.4</b>	<b>20.3</b>	<b>24.1</b>	<b>20.3</b>
	Other	Prof & int	72.5	15.0	7.5	5.0	
		skilled non-m	45.1	22.5	16.7	15.7	
		skilled manual	30.8	23.1	23.1	23.1	
		Partly/ unskilled	40.0	15.0	12.5	32.5	
		<b>All Classes</b>	<b>48.7</b>	<b>19.5</b>	<b>14.4</b>	<b>17.4</b>	
	24-26	White	Prof & int	67.3	11.7	12.4	8.7
			skilled non-m	23.2	17.5	29.2	30.1
			skilled manual	16.3	18.4	33.7	31.6
			Partly/ unskilled	12.9	12.2	24.6	50.3
			<b>All Classes</b>	<b>37.1</b>	<b>14.6</b>	<b>22.7</b>	<b>25.5</b>
	Other	Prof & int	80.0	9.1	5.5	5.5	
		skilled non-m	36.8	18.4	18.4	26.3	
		skilled manual	28.6	19.0	23.8	28.6	
Partly/ unskilled		22.7	13.6	18.2	45.5		
<b>All Classes</b>		<b>52.8</b>	<b>14.2</b>	<b>13.5</b>	<b>19.5</b>		
27-30	White	Prof & int	61.5	11.2	14.8	12.5	
		skilled non-m	15.2	15.3	31.4	38.1	
		skilled manual	11.3	15.3	34.2	39.2	
		Partly/ unskilled	7.8	8.5	22.2	61.6	
		<b>All Classes</b>	<b>32.0</b>	<b>12.6</b>	<b>23.6</b>	<b>31.8</b>	
Other	Prof & int	75.5	9.1	7.0	8.4		
	skilled non-m	26.1	17.2	21.0	35.7		
	skilled manual	18.8	18.8	25.0	37.5		
	Partly/ unskilled	13.6	9.1	15.9	61.4		
	<b>All Classes</b>	<b>43.9</b>	<b>13.1</b>	<b>15.0</b>	<b>28.1</b>		

Due to small numbers, the ethnic group variable had just two levels, white and other. Gender, of course, has just two levels. This produced a multi-way table with  $4*3*4*2*2 = 192$  cells.

A hierarchical loglinear analysis was run which produced a model with a number of 3-way interactions, but no higher order effects. The three interactions all include highest qualification group, which can be considered to be a dependent variable in this operation.

HIGHEST QUALIFICATION GROUP\*AGE GROUP\*GENDER  
HIGHEST QUALIFICATION GROUP\*AGE GROUP\*CLASS  
HIGHEST QUALIFICATION GROUP\*ETHNICITY\*GENDER  
HIGHEST QUALIFICATION GROUP\*GENDER\*CLASS

Table 19 shows the percentage within each grouping of gender, age, ethnicity and class attached to each of the highest qualification groups. For example amongst males aged 21-23 who are white professionals or intermediates, 53.2% have a higher education qualification, and 21.4% have at least an A-level standard qualification which is below HE standard.

To estimate the size of the non-participating population, 1999 mid-year estimates of the 21-30 year old population resident in England (ONS, 1999) were used as the basis for deriving the number of individuals in each of the dimensions of the table above, e.g. the number of professional and intermediate white males aged 21-30. Ages were rolled forward a year to make these data as temporally consistent with the labour force data as possible. The total size of this population is 6.5 million. As before, it is assumed that the social class composition of the whole population is the same as for the employed population. The problems with this assumption have already been discussed.

The mid-year estimates simply provided numbers by single year of age and gender. To estimate the numbers by age group, gender, class and ethnicity, the proportion of each combination of class and ethnic group within each combination of age group and gender was estimated from labour force data. For example, the mid-year estimates provided the number of 21-23 year old males. We then needed to break this down further by ethnicity and social class. At this stage, the England resident data includes non-British nationals, but we make the necessary judgement later.

Once this task was completed, the probabilities computed above can be applied to estimated numbers.

In Table 19 the columns show the number of UK residents within each of the four 'highest qualification' groups by gender, age, ethnicity and social class. However, because we are using sample data we have grouped ages into bands (e.g. 21-23) to attempt to model actual numbers. The final column (number/ yr. A-level) divides the number of UK residents with an A-level standard qualification below HE by the number of years in the age group (i.e. 3 for 21-23 but 4 for 27-30) to allow for better comparability between age bands. Groups with the largest numbers of individuals with A level or equivalent qualifications as their highest qualification are shaded in grey.

**Table 19: Estimated numbers of England residents 2000 by Highest Qualification held or being studied for by age, gender, ethnicity and social class**

Age	Ethnicity	Class	Total	Highest qualification				Number/ yr. A Level
				HE	A Level	GCSE A*-C	Other	
Male	White	Prof & int	173170	92088	37060	24931	19091	12353
		skilled non-m	185074	71786	45540	41053	26696	15180
		skilled manual	259868	29847	67548	92008	70465	22516
		Partly/ unskilled	215396	38183	26728	49638	100848	8909
	Other	Prof & int	11679	7412	2021	898	1348	674
		skilled non-m	14375	7187	2920	1797	2471	973
		skilled manual	8535	1348	2021	2021	3144	674
		Partly/ unskilled	12802	2920	1348	1572	6963	449
	White	Prof & int	312288	201519	40418	38702	31648	13473
		skilled non-m	151187	53001	30504	36605	31076	10168
		skilled manual	257380	25948	55139	90245	86048	18380
		Partly/ unskilled	166439	16777	17540	44422	87700	5847
	Other	Prof & int	18875	13918	1907	1144	1907	636
		skilled non-m	12964	5910	2288	1716	3050	763
		skilled manual	11248	1525	2288	2478	4957	763
		Partly/ unskilled	13918	1907	1335	2097	8579	445
	White	Prof & int	563187	335979	73443	78835	74930	18361
		skilled non-m	179424	46063	36962	49035	47364	9241
		skilled manual	452000	32910	87202	156183	175705	21800
		Partly/ unskilled	241153	15606	19508	57594	148445	4877
	Other	Prof & int	35327	24230	3514	2589	4994	879
		skilled non-m	14131	4834	2603	2231	4462	651
		skilled manual	16176	1673	2975	3533	7995	744
		Partly/ unskilled	13201	1100	917	1833	9351	229
Female	White	Prof & int	200303	118574	37962	28136	15631	12654
		skilled non-m	356838	106069	81729	101380	67661	27243
		skilled manual	77040	15809	17590	26719	16922	5863
		Partly/ unskilled	157429	39525	23224	34165	60515	7741
	Other	Prof & int	8932	6476	1340	670	447	447
		skilled non-m	23000	10373	5186	3833	3608	1729
		skilled manual	2903	893	670	670	670	223
		Partly/ unskilled	9155	3662	1373	1144	2976	458
	White	Prof & int	311144	209329	36281	38561	26973	12094
		skilled non-m	337548	78407	59042	98531	101568	19681
		skilled manual	72182	11777	13297	24314	22794	4432
		Partly/ unskilled	132398	17071	16123	32625	66578	5374
	Other	Prof & int	20895	16716	1900	1140	1140	633
		skilled non-m	21655	7978	3989	3989	5699	1330
		skilled manual	3799	1085	724	905	1085	241
		Partly/ unskilled	4179	950	570	760	1900	190
	White	Prof & int	535368	329486	59993	79039	66850	14998
		skilled non-m	510037	77296	78248	159922	194572	19562
		skilled manual	98084	11046	15046	33520	38472	3761
		Partly/ unskilled	216166	16775	18300	48037	133055	4575
	Other	Prof & int	27235	20569	2476	1905	2285	619
		skilled non-m	29901	7809	5142	6285	10665	1286
		skilled manual	3238	607	607	809	1214	152
		Partly/ unskilled	8570	1169	779	1363	5259	195
England residents		<b>TOTALS</b>	<b>6507796</b>	<b>2143122</b>	<b>1045320</b>	<b>1511582</b>	<b>1807776</b>	
British nationals only		<b>ADJUSTED</b>	<b>6345105</b>	<b>2089544</b>	<b>1019184</b>	<b>1473795</b>	<b>1762582</b>	

This analysis includes those who are studying towards Level 3 and 2 qualifications, as well as those who already hold such qualifications, because mature students at this level are potential recruits to higher education, who are demonstrating their interest in study, and are likely to be studying at further education institutions, and thus more accessible to targeting to be recruited into higher education.

Thus, we estimate that there were around 1 million 21-30 year olds in England in 2000 with, or studying for, A-Level or equivalent qualifications but who were not currently participating in higher education. In addition, there were around 1.5 million 21-30 year old British nationals resident in England with, or studying for, a GCSE grade A\*-C or equivalent qualification as their highest qualification and who were not currently studying at a higher level. Of this 1.5 million, given the reasons highlighted on page 49, we estimate that 13.5% of this group are at NVQ Level 3. This means that we would estimate that in 2000, there were 1.25 million 21-30 year olds resident in England who were studying for a Level 3 qualification or who already held a Level 3 qualification but who were not studying in higher education. The proportion of this group currently studying for level 3 is relatively small, at around 7%.

The QLFS can be used to provide further information on 21-30 year olds with level 3 qualifications who are not studying at a higher level. Again, we use merged data from the autumn quarters of 1996, 1998 and 2000. The QLFS does not report whether such individuals entered higher education but did not subsequently complete their course.

Of the 21-30 year olds identified as having a level 3 highest qualification but who were not studying higher, a small percentage (1.6%) reported being engaged in full-time study below higher education. However, this proportion is even smaller (less than 1 percent) when respondents are asked to report their primary economic activity. The vast majority are in employment.

**Table 20: Economic activity, 21-30 year olds with level 3 highest qualification not studying in higher education**

Economic activity	percentage
Employee- Full time Permanent	67.5
Employee- Full time Temporary	3.8
Employee- part time	8.9
Self-employed	7.2
Government emp & training programmes	0.3
Unpaid family worker	0.1
ILO unemployed	4.4
Inactive- student	1.0
Inactive- looking after family	4.5
Inactive- sick/ disabled	1.3
Inactive- other	1.0

Source: QLFS, 1996, 1998, 2000, autumn quarters

Of the 12.2% not in employment, 40% had left their previous job within the previous 12 months. However, almost one-in-three had left their previous job 4 or more years previously or had never been in paid employment.

**Table 21: Time elapsed since leaving last job, 21-30 year olds with level 3 highest qualification not studying in higher education and not in employment**

	Percent	Cumulative Percent
Less than 3 months	12.8	12.8
3 months but less than 6 months	11.6	24.4
6 months but less than 12 months	14.5	39.0
1 year but less than 2 years	13.5	52.5
2 years but less than 3 years	9.4	61.9
3 years but less than 4 years	5.8	67.7
4 years but less than 5 years	5.1	72.8
5 years or more	12.6	85.5
Never had paid job	14.5	100.0

Source: QLFS, 1996, 1998, 2000, autumn quarters

A small proportion of this group (under 12%) is engaged in study below the level of higher education.

**Table 22: Study Level of those with a level 3 highest qualification, but not studying at higher than Level 3. 21-30 year old British nationals**

Study level	%
Level 3	2.8
Level 2	1.4
Level 1	1.0
Other	6.3
None	88.4

Source: QLFS, 1996, 1998, 2000, autumn quarters

In terms of major occupation groups, 21-30 year olds with level 3 highest qualifications tend mainly to be found in administrative roles (managerial and clerical/ secretarial) and in craft and related occupations.

**Table 23: Major occupation group, 21-30 year old British nationals in employment (excluding full-time students) by highest qualification (percentages)**

	Level 4	Level 3	Other
1 Managers and administrators	17.2	16.5	10.3
2 Professional occupations	27.5	3.5	1.3
3 Associate prof & tech occupations	24.5	10.6	4.5
4 Clerical,secretarial occupations	13.3	22.7	21.0
5 Craft and related occupations	3.5	18.0	15.4
6 Personal,protective occupations	5.8	11.8	13.5
7 Sales occupations	5.6	8.7	10.5
8 Plant and machine operatives	1.4	5.1	14.0
9 Other occupations	1.2	3.0	9.5
	104	102.9	100

Source: QLFS, 1996, 1998, 2000, autumn quarters

Occupations held by those with level 3 highest qualifications also tend to vary by age and gender. Perhaps unexpectedly, there are proportionately more managers and administrators amongst the 27-30 year olds, and proportionately more males than females are engaged in craft and related occupations.



**Table 24: Major occupation groups, 21-30 year old British nationals with a level 3 highest qualification not studying higher education and in employment (excluding full-time students) by age and gender**

Age group		Male	Female	all
21-23	1 Managers and administrators	11.0	11.2	11.1
	2 Professional occupations	2.8	2.0	2.4
	3 Associate prof & tech occupations	10.6	7.5	9.1
	4 Clerical, secretarial occupations	17.3	36.4	26.4
	5 Craft and related occupations	27.7	1.4	15.2
	6 Personal, protective occupations	7.6	21.9	14.4
	7 Sales occupations	9.9	15.7	12.7
	8 Plant and machine operatives	7.4	1.6	4.6
	9 Other occupations	5.6	2.3	4.1
24-26	1 Managers and administrators	13.5	19.4	16.2
	2 Professional occupations	3.9	2.3	3.2
	3 Associate prof & tech occupations	9.7	9.2	9.5
	4 Clerical, secretarial occupations	15.2	36.9	25.0
	5 Craft and related occupations	33.6	1.0	18.8
	6 Personal, protective occupations	6.3	18.4	11.8
	7 Sales occupations	7.1	8.7	7.8
	8 Plant and machine operatives	7.4	2.0	4.9
	9 Other occupations	3.3	2.0	2.7
27-30	1 Managers and administrators	16.7	22.5	19.1
	2 Professional occupations	5.2	3.0	4.3
	3 Associate prof & tech occupations	13.5	10.5	12.2
	4 Clerical, secretarial occupations	8.3	36.0	19.9
	5 Craft and related occupations	31.6	1.4	19.0
	6 Personal, protective occupations	7.8	13.9	10.4
	7 Sales occupations	4.9	10.5	7.3
	8 Plant and machine operatives	8.3	0.8	5.1
	9 Other occupations	3.8	1.4	2.8

Source: QLFS, 1996, 1998, 2000, autumn quarters

**Table 25: Main occupation by industry sector, 21-30 year old British nationals with a level 3 highest qualification not studying higher education in employment (excluding full-time students) by gender**

	Male	Female	all
A-B: Agriculture & fishing	1.7	0.5	1.1
C,E: Energy & water	1.3	1.0	1.1
D: Manufacturing	22.8	10.4	17.4
F: Construction	14.7	1.5	8.9
G-H: Distribution, hotels & restaurants	20.1	22.6	21.2
I: Transport & communication	7.6	6.5	7.1
J-K: Banking, finance & insurance etc	17.1	24.1	20.2
L-N: Public admin, education & health	10.2	25.1	16.8
O-Q: Other services	4.4	8.3	6.1

Source: QLFS, 1996, 1998, 2000, autumn quarters

Almost half of the males work in the manufacturing or construction industry or are engaged in craft or related occupations in other industries. By contrast, females are more likely to be employed in financial and public service sectors.

From the labour force survey, we estimate that 2.5% of the 21-30 year old population resident in England are not British nationals. There are insufficient cases to estimate the proportion of non-British nationals falling into each of the highest qualification bands; hence we assume this is consistent across them to adjust the totals to include only British nationals. We estimate that in mid-year 2000, there were 4.25 million (67%) 21-30 year olds without, or not currently studying for, a higher education qualification.

The largest numbers of non-participants appear to be amongst skilled manual males and skilled non-manual females right across the 21-30 age range. As higher education qualifications generally confer social status, and given that more and more under 21s are entering higher education, the size of this group is likely to diminish in future

## MODELLING POTENTIAL MATURE PARTICIPATION

This section examines the characteristics of participants and non-participants in Higher Education, with a particular emphasis on those in the 21 to 30 age range. It seeks to model the factors that effect the propensity for entering HE amongst this age group.

### The UNL Mori Data: Factors Affecting Participation

Using the UNL MORI data<sup>3</sup>, we modelled the non-participant over 21 year olds, to discover the factors affecting their propensity to enter HE. A multinomial logit model was used (Aitkin, et al, 1989<sup>4</sup>), with plans to enter HE taken as a 3 level response (namely, 'definitely plan to go', 'may go', 'do not plan to go').

Plans to enter HE are, perhaps unsurprisingly, dependent upon qualifications. Once allowance has been made for differences in qualifications, the propensity to enter HE is not affected by social class (note we here are only dealing with C1, C2, D and E).

This leads to our consideration of the factors which might affect younger people's decisions to enter HE. In Collier, Gilchrist and Phillips (2002), it is reported that the plans of 16-18 year olds in this study (with parents from social classes C1, C2, D and E) were affected by a different group of factors that are shown in figure 30. The plans to enter HE of 16-18 year olds were (naturally) affected by qualifications and belief in ability. There was a very marked difference between those who would rather earn money and those who would not. The other attitudinal factors (enjoy study, responsibilities, betterment) were not significant for the 16-18 year olds; however, mothers' and friends' encouragement and access to information on HE were significant. Unlike the over 21s, there was a social class effect for the 16-18 year olds, with the children of C1 parents being more likely to plan to enter HE than the rest.

Similarly, having allowed for the different qualification levels, the propensity to enter HE is not different for men and women, nor is it different for the ethnic groupings here considered (White, Black, Asian).

An important aspect of our findings is that it appears that, given qualifications, there is no effect of the socio-demographic factors. Thus one does not gain any information from these socio-demographic factors, given knowledge of the qualifications of the working class mature person. See previous point.

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<sup>3</sup> A survey on 'Attitudes Towards Higher Education' was commissioned from MORI for the Social Class and Widening Participation in HE Project. For this, a nationally representative quota sample of 1,278 'lower middle' and 'working class' adults in England and Wales were interviewed during June 1999, over three consecutive weekly waves of MORI's Omnibus survey. Respondents aged between 16-30 years, from social classes C1, C2, D, and E were asked about their plans and intentions, and their attitudes towards Higher Education. Information was also gathered on their educational qualifications, sources of encouragement (or discouragement) for continuing with education after the age of 16, as well as standard demographics. Respondents were interviewed across 198 constituency-based sampling points. Interviews were carried out using CAPI (Computer Assisted personal Interviewing) face-to-face in respondents' homes on the following dates: 10-15 June 1999, 18-21 June 1999, 24-29 June 1999.

This survey utilised the social class definitions used by the Institute of Practitioners in Advertising, namely the social grade classifications to denote 'lower middle class' (C1) and 'working class' (C2, D, E) backgrounds, and which are standard categories on all surveys carried out by Market and Opinion Research International Limited (MORI).

<sup>4</sup> Aitkin, M.A. , Anderson, D. A, Francis, B.J. and Hinde, J.P. (1989). Statistical modelling in GLIM. Oxford: Oxford University Press

Our data shows that there are attitudinal factors which have an additional affect upon the propensity of the 21-30 year old working class to enter HE. Thus, belief in one's ability and having no preference for earning money are significant positive indicators of an interest in HE entry, as are a belief in betterment and perceived lack of inhibiting responsibilities. These factors act 'orthogonally' to the qualification effect. Hence, whatever the level of qualification, these attitudinal effects appear to be the same.

We therefore have determined that the propensity of the mature working class to enter HE depends upon qualifications, *but is independent of their particular working class classification, their gender and their ethnicity*. There are also *attitudinal factors* which affect the propensity to enter HE and these have the *same effect whatever the level of qualifications*.

The strength and direction of the relationships between the various factors and plans are quantified by their odds-ratios. The accompanying Table 26 gives the odds-ratios for planning to go as opposed to not going (the extremes of the plans response variable), comparing the extremes of each factor (e.g. the ratio of planning to go/not planning to go for those in social class C1 compared to the same for those in social class E). The absence of an odds ratio indicates no significant effect (equivalent to an odds ratio of 1.0).

**Table 26: Odds Ratios**

21-30 year olds		
Factor	Levels compared	Odds-Ratio
Belief in Ability	Yes/No	9.1
Rather Earn Money	Disagree/Agree	5.1
Qualifications	≥2 A-levels/No Formal	4.4
Enjoy Study	Yes/No	11.8
Betterment	Yes/No	8.8
Parental Encouragement	Strong/None	
Friends' Encouragement	Strong/None	
Teachers' Encouragement	Strong/none	
Responsibilities	No/Yes	2.7
Social Class	C1/E	
Age	16 ,17,18 19-20,21-2,...,29-30.	
Gender	Female/Male	

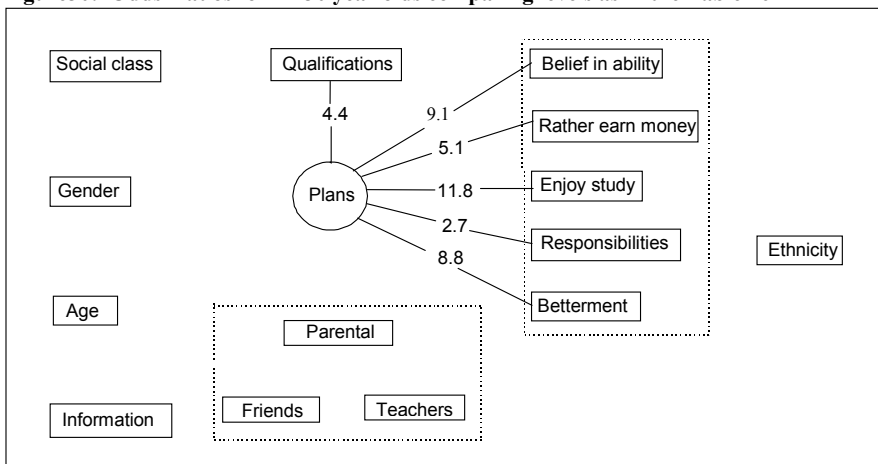
It may be noted that the odds ratios in Table 26 are chosen as the most extreme for display purposes. Odds ratios for less extreme comparisons are (equally) significant whenever the extreme comparison is significant (i.e. wherever a value is shown in Table 26). Thus, for example, the odds ratios for comparing the 'definites' and 'maybes' (or, indeed equivalently, for the 'maybes' and definitely not's) are given by the square root of the values in Table 26, for the same (extreme) levels of the explanatory factors shown. For example, the definite/maybe odds ratio for belief in ability/no belief in ability is the square root of 9.1, namely 3.0.

Odds ratios for less extreme values of the explanatory factors can be calculated similarly. Thus, for definite/maybe, for belief in ability/unsure re ability, the odds ratio is the square root of 3.0, namely 1.7.

According to this model, belief in ability to pass a degree and enjoyment of study have large associations with the plans of working class 21-30 year olds to enter HE. For example, the odds-ratio suggests that, with all other factors being the same, those who believe that they are capable of passing a degree are nine times more likely to plan to enter HE as opposed to not enter HE than those who do not believe in their ability.

The table includes possible encouragement factors. None of these (parental, friends', teachers' encouragement) are clearly significant. There is some weak evidence of a mothers' encouragement effect (which interestingly *does* appear significant for the under 21s, who are not considered in this report). It may be conjectured that, for the 21-30 year olds, a possible mother's encouragement effect is being subsumed to some extent in the qualification effect, as it becomes significant (with odds ratio of 3.4) when the qualification effect is removed from the model. In considering the effect of encouragement, for all age groups, the fathers' encouragement effect is highly correlated with the mother's encouragement effect but is not quite as strong. (Fathers' encouragement does not appear significant for the 21-30 year olds). It may also be noted that there are no joint (interaction) effects of any of the factors on plans. In particular, there is no age effect (interaction) for plans and any of the other factors. The model can be conveniently shown in figure 30, as below.

**Figure30: Odds-Ratios for 21-30 year olds comparing levels as in the Table 26**



In summary: Our analysis of the UNL MORI data indicates that, in addition to having appropriate educational qualifications for university entry, the profile of a 'typical' potential working class participant would be a person who believes they have the ability to pass a degree and is prepared to postpone earning money to go to university. They state that they enjoy studying, believe they would be better off through having a degree and are less likely to feel that they have responsibilities, which would make degree study difficult.

## LITERATURE ON MATURE STUDENTS AND FACTORS AFFECTING PARTICIPATION

Most research on mature students has been either large scale, statistical analysis of data sets or small-scale, qualitative analysis of specific sub-groups of mature students (e.g. women/ part-timers/those studying in particular institutions). Both of these approaches entail potential limitations and benefit to an analysis of (potential) mature student participation. Broad brush, quantitative analyses of HE datasets can provide valuable overviews but, as Davies (1997) comprehensively discusses, the inconsistencies over time in the collection of HE data, and the differences between separate sources, means that such analyses are often very problematic. This has also been highlighted in earlier sections of the report where data limitations have led to different data sources being combined despite the difficulties and limitations involved. Small-scale qualitative studies, on the other hand, may provide valid, highly contextualised analyses of multiple factors effecting mature student participation. However, the highly specific context of these studies means that findings are often not easily generalisable. In addition, many of the studies reviewed in this and other sections involve only very small sample sizes, which means that there are issues about how far they might be generalisable even within a particular context. This report provides a summary of trends and findings within a range of literature sources. However, we only report findings from studies that we deem to be of 'sound' quality (i.e. no obvious methodological flaws that would cast doubt on the validity of findings).

The first part of Section A suggested that overall the number of full-time mature entrants has fallen slightly and is now levelling off (although this figure contains an increase in 'younger' matures and a decrease in 'older' matures) (see Figure 13). This broadly reflects the literature, which suggests that there has been a significant fall in applications from full-time mature entrants following post-Dearing funding changes (Adnett & Coates, 2000)<sup>5</sup>. HEFCE 2001 also states that the population from which mature first-time entrants to HE are drawn is reducing, which partly explains the recent decline in full-time mature student numbers. Taken together with demographic trends, it also means that it will be very difficult to achieve any increase in mature first-time entrants in the foreseeable future. However, in July 2001, UCAS reported a 6.2% rise in the number of (full-time) mature applicants (UCAS press release, 20.07.01), and in October 2001, they reported that the number of mature full-time students had increased by 8.7% from 2000 figures (UCAS press release 12.10.01).

Throughout this review one should bear in mind that some of the research cited is highly contextualised and not easily generalisable. In light of this summaries of coverage and sample sizes are included for many of the studies cited. The plethora of research available reiterates the finding from Section A that there is no singular 'mature student', although mature students do exhibit certain trends in their modes of participation. Literature sources point to sub-sections of the mature student population having diverse needs, abilities and aspirations e.g. Wilson (1997), Williams, (1997), James (1995) and Ecclestone (2000). Most mature students are concentrated in 'new' universities (Wisker, 1996), attend particular modes of study, types of course<sup>6</sup> (James, 1995) and receive proportionally fewer resources than younger students (Yarnit, 1989). The majority of part-time students are mature aged over 25 years<sup>7</sup> (Broomfield, 1993) and female. Most mature students are women and mature women account for 25% of students (Maynard & Pearsall, 1994)<sup>8</sup>. There are differences between

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<sup>5</sup> This study examined the labour market earnings gap for mature female entrants through an economic assessment and meta-analysis of existing empirical studies.

<sup>6</sup> Although our analyses of current HESA data suggest that patterns of study and course choices are quite complex, as indicated in Section A

<sup>7</sup> See also our analyses in Section A of current HESA data which indicated that mature students aged under 24 are more likely to study full-time, whereas those aged over 24 are more likely to study part-time

<sup>8</sup> The research investigates the extent to which domestic commitments may or may not constrain men from entering higher education and the difficulties that these may present for them once on their studies. Maynard and Pearsall explored the way in which the process of personal transformation on entry to higher education is experienced by male students and the impact of this on personal relationships, not only with partners, but also on others close to them. They also looked at the 'single' mature student. They conducted a detailed study of a

which mature women participate in terms of class, sexuality, disability, area and ethnicity (Coates, 1989).

Similarly, as our analyses pointed to age differences within the 21-29 age range, other studies have also noted important differences between the characteristics of 'older' and 'younger' mature students (Baxter & Hatt, 1999<sup>9</sup>; Hoskins et al., 1997<sup>10</sup>). In particular, some evidence suggests that older mature students gain better degrees on average than younger students, and mature students with non-traditional qualifications obtain the best degrees of all (Hoskins et al, 1997). But there is divided evidence in the research literature as to whether mature students are more likely to withdraw from their courses. Work by HEFCE suggests that retention is lower amongst matures.

On the question of 'why do mature students return to study?' the following motivations have been identified:

- There are no single reasons or motivations, but 'clusters' of reasons (Neville, 1994)<sup>11</sup> and often reasons can only be revealed in retrospect (Blaxter & Tight, 1993).
- Davies et al (2002) found that the five most important motivating factors for new entrants were: to enhance career prospects, interest in subject, desire to improve qualifications, to change direction of life and to improve long-term financial situation. The survey, focus groups and interviews with potential entrants showed that their motivations were similar to new entrants.
- Motivations to study do seem to vary however with age and gender (Blaxter & Tight, 1993). Women may have been delayed from continued study due to marriage at a young age and the birth of children, and particular personal life events/problems (e.g. marriage breakdown, illness, children leaving home) may prompt them to return to study (Cochrane, 1991)<sup>12</sup>. Women may also cite 'personal betterment' reasons (Archer & Hutchings, 2000; Leathwood et al., 2001).
- Different 'types' of mature student have been identified by Wakeford (1994) and Green & Webb (1997). For example, in their interviews with 92 students, Green & Webb identified three main motivations among mature respondents for returning to study: these all related to prior experiences of schooling when they had experienced their potential as 'untapped' or 'wasted' or when further study had been 'denied' (as 'not for the likes of us').
- Men students are more likely to frame their motivations to return to study in terms of escaping unsatisfactory work situations (Maynard & Pearsall, 1994; Archer, Pratt & Phillips, 2001, Neville, 1994), but some also mention the personal satisfaction they get from studying (Blaxter & Tight, 1993).
- Although single employed men received family scepticism about returning to study, male breadwinners who had returned to study received greater encouragement from their families than female students, 'despite the fact that this often meant that the family would have to live in relatively straightened circumstances' (Maynard & Pearsall, 1994; p.231).

The benefits of higher education study to mature students are at present rather inconclusive. Small-scale reports from actual students have identified women as reporting gaining confidence and assertiveness, whereas men report becoming more considerate, tolerant, happier in relationships and

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small number of full-time undergraduates at a college of higher education comprising about 2500 students. Thirty students were interviewed, 10 were female and 20 were male.

<sup>9</sup> The focus of this article was on a group of mature students on a social science programme. Empirical work deals with their progression from 1<sup>st</sup> to 2<sup>nd</sup> year of study. The study reports data from 87 mature students (aged 21+) from a larger cohort of 487.

<sup>10</sup> The computerised records of a large university were analysed in an attempt to determine which variables served as predictors of degree performance. 6,866 student entries were analysed in the database from a single institution (Plymouth, 1991-95, some entries excluded by the authors).

<sup>11</sup> This study explored what motivates adults to join an Access course, questioning whether there are any major differences between males and females in this respect. Neville conducted a survey of Access students in 12 F&HE institutions, West Yorkshire, 1992.

359 (41%) of students completed questionnaire, 124 male (35%), 235 female (65%).

<sup>12</sup> In this study of mature female students, six mature women students were interviewed.

gaining in confidence, knowledge and skills (Maynard & Pearsall, 1994). In terms of broader economic returns from participation, the returns for mature students are thought to be lower than for younger students (Field, 2000) but it is recognised that relatively little is known about the rates of return for mature students from HE, particularly mature women (Coffield & Vignoles, 1997). Blundell et al. (1996) calculated a return to a degree of 12-14% for all males, and just 5-7% for those starting over the age of 21. The private economic returns associated with lifelong learning have been researched, and found to be negligible in terms of earnings, although there does appear to be some improvement in the likelihood of being employed and a reduction in the likelihood of being unemployed (Jenkins *et al* (2002) CEE DP 19, Conlon (2001) CEE DP 13 ). Mature females however, earned the same return to their degree as young women. These results suggest that older students may earn a lower return to their degree. However, the definition of mature may matter. Egerton and Parry (2001) suggest that, in comparison with the 2+ A-level group, mature graduates, who acquired their degree after the age of 25, earn a private rate of return of 1.5% for males and 5.6% for females (which is very low compared to the figures for all graduates). Even more recent work by Jenkins et al (2001) found no return to a degree for mature students who took a degree between the age of 33 and 42. This seems to indicate that the return to a degree may decline quite sharply with age of commencing study.<sup>13</sup>

### Reasons for Non-Participation

Very little research has been conducted to examine the views of non-participants. The following evidence comes from the UNL Social Class & Widening Participation in HE Project<sup>14</sup> (e.g. Archer et al., forthcoming; Archer, 2001; Archer & Hutchings 2000; Hutchings & Archer, 2001; Archer, Pratt

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<sup>13</sup> Much of the material cited here on the returns to mature students is extracted from work done for the DFES by Anna Vignoles (LSE, CEP).

<sup>14</sup> The research project was conducted in three main phases and utilised a mixture of methods. Focus groups were conducted with inner city, ethnically diverse working class respondents, including both 'non-participants' (people who were not in higher education and who were unlikely to apply) and 'participants' (current HE students from working class backgrounds). The 'generalisability' of focus group findings was explored through a national survey. *Phase One: Focus groups with 'non-participants'*

Sixteen focus group discussions were carried out with a total of 118 working class<sup>14</sup> people aged 16-30 living in north and east London. Approximately one third of the sample identified themselves as 'black' (Black African, Black Caribbean, Black-Mixed race), one third 'Asian' (Pakistani, Bangladeshi and Asian-Mixed) and one third 'white' (white-British, white-Italian and white-Turkish)<sup>14</sup>. Ten groups took place in further education (FE) colleges, where respondents were attending courses from which they were considered to be unlikely to progress to HE (e.g. NVQ Level 1). Six further groups were recruited from the general public according to gender and ethnicity (African Caribbean, Bengali, white). These 'single sex/separate ethnicity' groups mostly included people who were not participating in any form of education, (many of whom had left school at 16 and were now working or unemployed) although some respondents were studying part-time in FE. Of the non-participant sample, 16 said that they definitely hoped to go to university (though only 9 of these were currently taking level 3 courses). About the same number explicitly rejected the idea. Many of the remainder expressed some interest, but said they were unlikely to enter HE. *Phase Two: A National Survey: Focus group findings informed the design of a national survey questionnaire.* Questions were administered through the MORI Omnibus survey to adults from social classes C1, C2, D and E, aged 16-30 years living in England or Wales. Questions were asked over three survey sweeps and a total of 1,278 respondents were successfully targeted. Of these respondents, 56% were female and 44% male. 91% of respondents were white and 9% from ethnic minorities. Overall, 17% of the sample had been/were at university, 17% expressed possible plans to apply and 59% did not plan to go to university at all. Among respondents, 13% held a degree, 9% had HND/C or equivalent, 24% had 2 or more A Levels and 40% had 5 or more GCSEs, 22% had less than 5 GCSEs, Level1/2 NVQ. 7% did not hold any formal educational qualifications. *Phase Three: Focus groups with 'participants.'* Seventeen focus group discussions and interviews were conducted with a total of 85 new first year undergraduates at an inner-city, post-1992 University. Respondents were recruited from a range of courses from across the faculties. Of these respondents, 51 were women and 34 were men. Approximately 30% of respondents could be identified as 'white British', 20% as Asian, 20% as black and 27% were from other (mainly white European) backgrounds.



& Phillips, 2001; Archer, Leathwood & Hutchings, 2001 amongst numerous other papers) and from Davies et al (2002).<sup>15</sup> Our research identified a complex range of factors impacting upon non-participation, but the 'strongest' factors that acted as barriers to access are detailed below. This section also looks at participants and the factors which inhibited or discouraged their participation in HE.

- *'Knowing someone'*

For many focus group respondents, the possibility of going to university was a 'non-choice'; it had never entered into their choice/decision-making horizon. The UNL MORI survey revealed that 59% of the sample did not plan to ever go to university, and almost half of all respondents (49%) had never thought about doing a degree (this figure rose to 60% among social class E interviewees)<sup>16</sup>. Qualitative analysis revealed that few working class respondents were able to draw on a family history of HE participation to support and guide them through the process of application and entry. As a result, most respondents knew relatively little about how to apply to university, what it might be like there or what studying in higher education might cost and entail (See Hutchings & Archer, 2001). It could be argued that working class families are highly disadvantaged within the HE process as compared to middle class applicants, who are able to draw upon greater cultural capital and resources (e.g. Reay, 1998). Indeed, the working class student interviewees said that knowing someone who had been to university was a very important factor in their decision to apply. This personal contact not only introduced university into respondents' horizons of choice but provided a trusted/valued information source (see below), support and advice on how to apply and represented the 'achievability' of university participation for 'people like us'. 'Knowing someone' who had been also helped work against the sometimes strong 'cultural' resistance to participation that respondents recounted from friends, peers and families. Women in particular identified family and social/community opposition to the idea of their going to university because it would entail getting 'above your station' (Hutchings, Archer & Leathwood, 2000) and/or because for those with children it was considered 'irresponsible'. Interestingly, 'knowing someone' did not come out as clearly in research by Davies et al (2002) although it was highlighted as a reason for not thinking about HE at the time that respondents were leaving school. The fragmented nature of the information available was important, as was the timing of information although these issues were raised more in relation to the choice of HEI and course rather in relation to the decision about whether or not to participate.

- *Risk*

Across all phases of the study, working class respondents recognised that participation will entail considerable social and economic risks, costs, financial hardship and insecurity, and all with no guarantees of success. Respondents could recognise benefits but were in 'impossible' positions and constrained by material situations and needs as well as identity/attitudes. This combination of risk, cost and uncertainty permeated through the HE process, from application, to participation and graduate employment prospects. It is widely agreed that debt is riskier for working class groups and respondents highlighted the diverse, but very real, possibilities of failure (drawing upon their own experiences of educational failure) and the diverse social and economic consequences of failure for themselves and their families. In the face of these risks, many respondents' reasons for not wanting to participate could be identified as using pragmatic rational strategies of risk management, 'sticking to

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<sup>15</sup> This study focused on nine case study institutions (7 in England, 1 in Wales and 1 in Scotland) where there were both a large number of mature students and where there had been a significant decline in recent years. Through these HEIs, new mature entrants in 1999 in specific subject areas were identified and contacted using a questionnaire (866 responses). Through their guidance and recruitment activities, their own feeder provision and their local FE colleges, potential entrants (in 2000 or later) were identified and contacted by questionnaire (79 valid responses), focus groups (21 groups with a total of 220 participants) and interviews (187). Interviews were also conducted with key personnel in each HEI. The range of methods and tools were used to elicit rich qualitative data rather than quantitatively representative data.

<sup>16</sup> Prior educational qualifications were related to plans to go to university: Among those with 2 or more A Levels, one in three planned to go to university. However, among those with no formal qualifications, nine out of ten said they had no plans to participate.

what you know’.

The risks associated with mature participation in HE were also clear in Davies et al (2002). The risk comes about because of the range of different motivations and barriers, which interact and weigh against one another. Risks were large, interrelated and related to the costs of participating in a broad sense – “the cost in terms of time, money and pressure against the uncertainty of outcomes.”

- *Finance*

The impact of financial barriers for working class participation were emphasised consistently and uniformly across the research. Even the most academically qualified respondents, and those already at university, felt hindered by poverty and actual, or potential, debt. Both HE participants and non-participants appeared confused about grants/loans and fees, and even current applicants reported that they did not know about recent changes in the funding system. There was also confusion among students with regard to the necessity for LEA assessment to set the levels of fees paid. Student loans were widely assumed to be same as bank loans and were associated with a fear of debt. They were thought to be ‘unfair’ by some students and part of a governmental ‘money-making scheme’, a form of ‘double tax’ for graduates who would later contribute through higher earnings tax. The process of applying for financial support was found to be highly complex and repetitive; different authorities (LEA, Student Loans Company, the University) all requiring the same information.

Within the UNL MORI survey, men appeared to hold slightly more negative views of university participation than women: For example, slightly fewer reported enjoying studying and higher percentages of men said they would ‘rather earn money’ and thought university and the student image was ‘not for them’. In comparison, women appeared to be slightly more constrained by situational barriers; higher percentages of women said they would only study locally and part-time, and would do a degree ‘if it did not cost so much’. Throughout the research study, respondents identified the current shift to mass higher education as a barrier to participation. These disadvantages were framed in terms of the resultant ‘over-crowded’ graduate job market in which working class graduates (having attended ‘second rate’ universities and having achieved lower qualifications as a result of juggling work, financial and social pressures) would be the first to be ‘squeezed out’. Issues around retention crosscut with many other themes, such as finance, ‘risk’ and access routes. Many students identified that they were at risk of ‘dropping out’ due to financial difficulties. Single mothers and those students previously on benefits were particularly at risk. The necessity for working class students to continue in paid employment throughout their period of study was widely identified as a disadvantaging factor.

Davies et al (2002) found that finance is both a key motivator and an important barrier to participation. Enhanced employment outcomes were most commonly given as the most important reasons for participating in HE. However, the costs of study were the principal barrier to participation. Particularly important was the lack of knowledge of financial regulations and support for mature students.

- *Information*

Respondents largely lacked (and distrusted) information and encouragement from schools or colleges. Within the MORI survey, 44% reported receiving no information from their schools or colleges regarding higher education. Again, this may reflect the nature of the sample. 29% of respondents did not have level 2 qualifications and so, at the time that they were at school, would not have been in the group who were equipped to progress to level 3 and higher education at that time. Ball & Vincent (1998)<sup>17</sup> found a wide mistrust of particular ‘official’ sources of information among working class families and a heavy reliance upon ‘hot’ or ‘grapevine’ knowledge. Similarly in this research, qualitative analysis revealed that official sources were regarded as biased in that they represented institutional or governmental interests. These sources of information were contrasted with ‘informal’, local sources, which were regarded as more useful and reliable. Working class HE

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<sup>17</sup> This article draws on interviews with 172 parents (138 actual interviews) about the processes involved in choosing secondary schools for their children.

students narrated the importance of having had trusted friends or family members who encouraged them through entry routes and provided an important motivation to apply for university.

The majority of non-participants were unclear about what entry qualifications are required for university, but it was widely assumed that whatever these were, they would be higher than the ones they personally held. The MORI survey revealed that only 32% of respondents thought that they had the grades or qualifications which would allow them to go to university, and this figure fell to 17% among social class E. Among mature respondents, prior educational qualifications also had a strong influence on their potential plans. Appropriately qualified respondents were five times more likely to consider applying than those with no formal qualifications. However, there was also an influencing factor of belief in one's ability to pass a degree, which was not highly correlated with level of qualification (i.e. Levels of self-belief were also present among those respondents who actually lacked the required HE entrance qualifications).

Where focus group respondents had knowledge of alternative entry routes, the legitimacy of these was often questioned. Both HE participants and non-participants thought that the qualifications they held (such as GNVQ, BTEC, Access courses) were regarded less highly than A Levels. It was also argued that within universities, working class students with 'non-traditional' qualifications are 'labeled' and/or unprepared. The non-participant respondents were largely employed in occupations from which it is difficult to accumulate the forms of accreditation that are currently recognized as routes for entry to HE. Mechanisms that do recognize more diverse forms of potential and life experiences, such as APEL, remain marginalised within the HE system and thus offer limited potential for widening participation. Many respondents appeared to be skeptical of the educational system as a whole. For example, they regarded routes designed to widen access as 'money-making' schemes. Davies et al (2002) also highlighted the importance of information. In particular, mature applicants or potential applicants found it difficult to get full information, particularly in relation to financial support and institutional timetables, at the appropriate time.

- *HE Cultures*

Higher Education was talked about as a middle class system in which working class students were disadvantaged and 'different'. 45% of the MORI sample agreed that 'the student image is not for me'. Some focus group respondents anticipated, or recounted, being intimidated by middle class students. Mature students were particularly likely to voice fears of being 'out of place'. Some mature female students also felt they did not understand the culture and language of the middle class staff. A number of non-participant women talked about universities as 'big and scary' and 'snobby'. Independent of whether respondents personally expressed a wish to go to university or not, 'students' were widely represented as middle class (and white) and therefore 'different' to oneself. Images of (middle class) students were largely negative, with students positioned as 'lacking common sense', 'immature' and as socially inadequate. This latter view was particularly prevalent amongst white respondents. Many respondents shared a view of university student life as characterized by 'drinking and partying', but this stereotype was generally regarded as negative for a number of reasons. For example, participants and non-participants emphasized the risks of alcoholism and debt associated with a culture of 'cheap drink'. Mature and Muslim students felt that the 'partying' image promoted by university student unions marginalised and did not represent their own experiences and values.

Classed, gendered and racialised identities also provided an important, and highly resilient, source of resistance to participation. Black and white male non-participants in particular had a sense of masculinity and male authority that were closely identified with paid work, and were experienced as antithetical to 'feminised' study (see also Bernard, 1981; Brannen & Moss, 1987; Henwood et al., 1987). In our research, working class men felt that had 'more to lose' (in masculinity terms) by giving up their 'local power' and entering the middle class male world of HE (Archer, Pratt & Phillips, 2001).

Davies et al (2002) did not find that institutional factors were common or high up on the list of general motivations and barriers. However, many factors were important in the choice of HEI

including advice, attitudes and admissions procedures. As with other research reviewed this study did get a strong sense that mature respondents had a particular institution or type of institution that they regarded as appropriate to them. This was reflected in one of the case study HEIs where more than 75% of students were mature, a very high percentage were from ethnic minority groups and most lived locally.

- *Time and Other Responsibilities*

Respondents in our research also talked about not having the 'time' to enable them to participate in higher education. Non-participant men were more likely to frame these concerns in terms of their responsibilities to undertaking paid employment and, among the younger men, to maintaining the symbols of 'successful masculinity' (e.g. a car, designer clothes, desirable lifestyle- see Archer, Pratt & Phillips, 2001). Women, however, were more likely to suggest that their family (and domestic financial) responsibilities would prohibit them from participating in higher education (e.g. see Archer and Hutchings, 2000).

Davies, et al (2002) also found that time and responsibilities were cited as key barriers to mature student participation; 'Barriers to entry were linked to the realities of mature student lives: a multiplicity of roles, costs of study, the need for a reliable source of income to meet existing commitments, the importance and value of caring responsibilities, and time problems'.

## LITERATURE ON RETENTION

There appears to be limited quantitative evidence in the literature on retention of mature students. However, Smith and Naylor, 2001<sup>18</sup> (who analysed a 'true' cohort from 1989 through to completion) have modelled the dropout rate of the 1989 cohort in pre 1992 universities. They show an increased chance of drop out with increasing age (except for over 34-year-old females). Poor social background is related to withdrawal (although Smith and Naylor only found a significant effect associated with social class 1). It is higher for those with lower qualifications (e.g. Smith and Naylor estimate that each A-level point for males contributes 1.4 percentage points better retention; for females, although statistically significant, the effect is less pronounced).

HEFCE (1997) state that mature students have a higher dropout rate. It appears that retention is better for women than men and that there is a difference in retention for different subjects. HEFCE (2000) calculates that non-continuation rates for mature entrants to full-time first degrees are higher than for young students. Much of this difference is associated with differences in entry qualifications between young and mature entrants.

Qualitative and questionnaire research around retention is notoriously difficult to conduct. However, excellent studies by Benn (1995)<sup>19</sup>, Ozga & Sukhnandan (1997)<sup>20</sup>, Yorke *et al.*, (1997)<sup>21</sup>, and Davies & Elias (forthcoming)<sup>22</sup> do provide very useful indications of the factors affecting 'drop-out'. In addition, the Sixth Report of the Education and Employment Select Committee (2001) cites evidence, which suggests that a fairly robust conclusion can be drawn that students from economically and educationally disadvantaged backgrounds are vulnerable to non-completion although also highlighted that the exact nature of this relationship is not straightforward. Moreover, much of the variation in non-completion by social class is likely to be explained by their lower entry qualifications and choice of subject.

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<sup>18</sup> This study used a data set based on anonymized individual universities student records for the full populations of undergraduate students leaving the traditional 'pre 1992' universities in one of the years 1990-1993. Data contained information on about 400 000 students, about 100,000 per cohort.

<sup>19</sup> The article examines the factors affecting student withdrawal from higher education. Benn measured attrition rates in 1986 for 7 countries (Belgium, Denmark, Germany, Italy, Netherlands, Spain and UK) using source data from Educational statistics for the UK.

<sup>20</sup> This study presents an explanatory model of undergraduate non-completion, based, primarily, on the findings of a qualitative case study. The project was conducted in 2 parts: 1<sup>st</sup> part examined and analysed a sample of non-completers from 3 'types' of HEI and compared trends with national data. For this paper, the 2<sup>nd</sup> part of the study consisted of a case study of non-completion at a single university. Based on a matched sample: 169 students who had withdrawn, matched as closely as possible with a completer. The study also utilised a random sample of academic staff drawn from approximately half the departments. Postal questionnaires were sent to non-completers and matched completers (N= 41, 28%). Follow-up interviews were conducted with willing non-completers (N=20). Follow up, face-to-face interviews were run with completers who had considered withdrawal (N=8); and Face to face interviews with members of staff (N=14).

<sup>21</sup> A questionnaire survey was undertaken with the students who had left the 6 project institutions during, or at the end of, 1994-95 without completing their programmes of study. 1083 responses from a mailing of 5512 (response rate ~20%). They also undertook a telephone survey of non-respondents to amplify the number of respondents, this resulted in a further 533 responses (overall response rate of >30% for FT and sandwich students).

<sup>22</sup> This study obtained a sample of persons regarded as 'withdrawers' from a database of student records maintained by the Higher Education Funding Council for England (HEFCE). Potential withdrawers were identified for the years 1996/7 and 1998/9 for 30 selected institutions of higher education. Approximately 16,400 'withdrawers' were identified. Questionnaires were mailed to approximately 15,200 of these people, of whom 10 per cent replied. A follow up telephone survey was conducted for 100 respondents to the postal questionnaire. Response bias means that the findings are from the better-qualified segment of those who discontinue their studies.

The UK has relatively low rates of attrition compared to other European countries (Benn, 1995), but withdrawal is still problematic because it is thought to disproportionately affect particular social groups (mature students, some minority ethnic groups, working class) and because it costs 'student time, money and self-esteem' (Benn, 1995).

In relation to the issue of whether mature students have higher rates of attrition, the literature suggests the following:

- There is a need to be wary with statistics. Non-completion rates are difficult to ascertain/ assess due to differing ways of defining and calculating non-completion (Ozga & Sukhnandan, 1997); crudeness of the data smoothes over distinctions between differences in the HE sector and differences in calculations/definitions (Benn, 1995) and between part-time/full-time drop out and mature/non-mature attrition.
- Research into factors associated with non-completion offers a very partial picture. This is partly because it relies on post-hoc rationalisations of the reasons for leaving, and partly because response rates among students who have withdrawn tend to be very low (Benn, 1995). Davies & Elias (forthcoming) report an overall response rate of 8.6%. However, within this they found interesting variations by gender, pre-entry qualification level and age. Women, younger students and those with higher pre-entry qualifications were more likely to respond. This means that response rates for mature students are lower than 8.6%.
- The important differences between 'old' and 'new' sectors has been confused within some research. There is particularly little work on factors affecting withdrawal of non-traditional students in 'old' HEIs (CVCP, 1993). In the 'old' sector, mature students seem more likely to withdraw (Lucas & Ward, 1985; the Exeter study cited in Benn 1995 showed 16% mature withdrawal and only 8% of younger students). However, it is important to remember that mature students achieve equally well.
- As a result of these factors, there is contradictory evidence. Some claim that mature students are more likely to fail than younger students (e.g. Woodley et al., 1987). Others claim that (older) mature students are more likely to complete than younger students (Walker, 1975; Nisbet & Welsh, 1972; Lucas & Ward, 1985; Richardson, 1994b, Richardson 1995). There is also evidence that younger mature female students have the worst rates of progression (Baxter & Hatt, 1999).

Some mature students may have a greater propensity to withdraw than others; studies have identified the following groups as particularly vulnerable:

- men (Benn, 1995), particularly poorer men who have been unemployed (Smith & Naylor, 2001)
- those living far away from the course (Benn, 1995)
- students who are unmarried or have no partner (Benn, 1995, Lund, 1989).

However, it is generally agreed across the literature that there is no single reason or cause for student withdrawal (e.g. Benn, 1995) and that decisions result from the interaction of different factors. Thus non-completion needs to be understood as 'part of a complex social process of student-institution negotiation' (Ozga & Sukhnandan, 1997).

#### *Factors cited by students as reasons for withdrawal*

Various studies have identified broadly similar lists of factors cited by students for withdrawing from HE courses. Yorke *et al.* (1997), investigating withdrawal in all age groups, identified incompatibility between course and student as the main reason for withdrawal, followed by lack of preparation for entry to HE (both in terms of self-management skills and study skills), then lack of commitment, financial hardship and poor academic progress. A more recent study by Davies & Elias (forthcoming) has similar findings: mistaken choice of course was overall the most frequently cited factor, followed by financial problems, personal problems and academic difficulties.

However, the reasons for withdrawal among mature (over 21) students are rather different from those found among the younger students. Davies & Elias found that 56% of the mature students withdrawing cited financial problems as a contributory factor, and for 23% this was the main factor

involved in their decision. Personal problems were identified by 46% as a contributory factor (and as a main factor by 17%), and academic problems by 32%. In this age group mistaken choice of course was much less important than for the younger students (only 28% cited it, in comparison with 55% of those under 21).

Evidence from the DfES MORI survey (2001) produces a similar range of factors, but indicates different relative importance. However, the numbers involved are small. Overall there were 400 respondents aged 21-30 who had level 2 or 3 qualifications. Of these, 59 (15%) had started a Higher Education course but not completed it. Of these 59, 22% claimed they did not like the course or it was not what they expected, with 36% stating that they left for 'personal reasons'. 24% said that they left because they could not afford it, 7% to take up employment, and 5% claimed that they left because the course was too difficult.

In the section that follows each of the factors implicated in withdrawal is considered in more detail.

### *Institutional Factors*

Mature students generally see themselves as having a much more limited choice of institution than younger students because they are less mobile (Davies, et al, 2002). As a result, 'mistaken choice of institution' was a much less important factor in withdrawal among the over 21s (15%) than among the younger students (30%) (Davies & Elias, forthcoming).

Davies et al 2002 reports that some HEIs were moving away from recruiting mature students.<sup>23</sup> Those at the top end of the hierarchy of universities tended to prioritise A-level entry: thus mature students may be labelled, particularly by elite institutions, as high risk, different (Bamber & Tett, 2001)<sup>24</sup>. A factor in withdrawal is the existence of institutional cultures which are hostile/indifferent to non-traditional students, particularly those from Access routes (Armstrong, 1996<sup>25</sup>, Waters & Gibson, 2001<sup>26</sup>) and lesbian/gay students (Jordan, 2001).

Institutional policies can impact on retention of mature students:

- It is important that the institution provides clear, concise and up-to-date information to students. 'Good quality contact with, and attention from, staff' can help lower attrition (Hayes, 1996)<sup>27</sup>. Attrition is also linked with institutional cultures in that withdrawal can be reduced by providing clear pre-entry/induction advice and guidance and by changing institutional cultures (Armstrong, 1996). Provision of information also to part-time students has been identified as important (Bourner et al, 1991, Benn, 1995).
- The institutional image is important, and in particular, how it presents itself and deals with queries. Archer *et al* (forthcoming) report that mature students were easily deterred by responses that were seen as unwelcoming or patronising. There is a need for the provision of services for mature students to be evaluated by HEIs, whilst recognising the local context practicalities in order to provide better environments for adult learners (McGivney, 1991).

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<sup>23</sup> As mentioned, it is important to note that this study selected a small not necessarily representative sample of HEIs to focus on the decline in mature full-time enrolments in HE during the mid to late 1990s. Consequently, the results are not generalisable to all HEIs.

<sup>24</sup> This article aimed to illuminate the dilemmas involved in widening participation at an elite university; with a focus on issues of progression, retention and the quality of student experience. 18 participants (6 male) were interviewed individually, and in small groups, at the start of the course and after 3 months. Individual interviews held with 10 of the students during their 3<sup>rd</sup> year.

<sup>25</sup> This article did not give details about number of participants citing only that it was 'a representative cross-section of students on the Access programme'.

<sup>26</sup> This study examined psycho-social causes of withdrawal from Access courses. 45 students (33 female) responded to an invitation to participate in a semi-structured interview.

Only 4 of the 79 who withdrew (from an original 260) were interviewed, so responses are largely based on those who remained on the course. All students came from the same institution.

<sup>27</sup> Hayes' article summarises findings from a NIACE seminar on Student Retention and completion, but source studies, data/samples etc are not reported in this report.

- Need to increase Access students' confidence once at university through increased staff contact (Waters & Gibson, 2001)
- Among post-1992 part-time students, the main factor affecting completion was identified as evening only provision (Bourner et al., 1991)
- The role of personal tutors in directing students 'at risk' towards appropriate sources of help should be promoted (Davies & Elias forthcoming).

#### *Choice of course*

A 'mistaken choice of course' was identified as the most important factor in deciding to withdraw by 24%, and as a relevant factor by 55% of the 1,510 respondents in Davies & Elias' (forthcoming) survey for the DfES. However, among the over 21s only 28% cited it as a relevant factor, and it did not figure in the three main factors in decisions to withdraw by this age group.

#### *Domestic and Personal Factors*

'Personal problems' were cited as a factor in deciding to withdraw by 45% of the over 21s in Davies & Elias' (forthcoming). This was the second most cited factor among mature students, and was more important for this group than for younger students. The over 21s were also very much more likely to cite caring for dependants, illness and disability as factors in withdrawal. Previous studies have also found that mature students are more likely to withdraw due to external factors such as family commitments, time and money (e.g. Ozga & Sukhnandan, 1999; Bamber & Tett, 2001). Benn (1995) reports that 'stayers' were more likely not to have dependent children. Obviously financial and personal factors are closely linked, but here we have considered them separately.

Not being married/ partnered can increase the risk of dropping out among mature students (Bourner et al., 1991). Benn (1995) reports on the Exeter study in which 'stayers' were more likely to be older women with partners. Lund (USA) found that married mature women part-time students finished significantly more often than single mature women on part-time courses. Mature students may face a lack of support from families and friends (Bamber & Tett, 2001; Waters & Gibson, 2001) so on-course peer group dynamics/mentoring is important (Benn, 1995) as is social integration (Smith & Naylor, 2001).

#### *Financial Factors*

These are widely cited as severely impacting on mature student retention e.g. by Ozga & Sukhnandan, 1999; Bamber & Tett, 2001, Bourner et al., 1991, Marks, 1999; Jordan, 2001. Davies & Elias (forthcoming) found that 56% of mature respondents identified financial problems as having impacted upon their decision to withdraw from university; this was the most frequently cited factor for the mature group, and was very much more important for them than for younger students. 23% of mature students withdrawing from HE identified finance as the most important factor. They report that those for whom student loans were the main source of income were more likely to report that they had withdrawn for financial reasons than those whose main source of income was grants.

Davies et al (2002) report that potential entrants in focus groups felt that little recognition is given to the fact that most mature students have financial commitments in the form of dependants and mortgages, and their circumstances are very different from those of school leavers.

The NUS believes that the chief cause of students dropping out of their courses is hardship (NUS 1999). They found that over 50% of students had considered giving up their course, and that finance was a strong factor in this for around a third of all students.

It is unfortunate that the Student Income and Expenditure Survey (Callender and Kemp, 2000<sup>28</sup>) does not differentiate between students under 21 and aged 21 and over. Instead it uses 25 years as the

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<sup>28</sup> This report focussed on the Student Income and Expenditure Survey, conducted 1998-1999, which recruited a representative sample of 2,054 full-time and 747 part-time students from 87 HEIs. Students were interviewed and further details were collected through the completion of weekly expenditure diaries.



boundary between young and mature students. However, they report that lone parents (who generally are in the 21 and over age group) were the most likely to report financial problems, and that they had cut back on expenditure in almost every area. They reported that their children had to go without items such as toys, books and presents because they could not afford them. They had virtually no contingency funds to call on, and had the largest debts of any student group. This was, according to Callender and Kemp, because in this group there was a high take-up of student loans (94%) and a reliance on commercial sources of credit. Only a minority received financial support from their families, and they generally found that their employment opportunities were restricted by domestic responsibilities. Those lone parents who did work were the lowest paid group at £4.71 an hour (compared with an average of £5.31 an hour for those aged 25 and over), and Callender and Kemp suggest that this reflects the types of jobs available that were compatible with their domestic responsibilities. Some mature lone parents in the first week of their courses reported that they were uncertain whether they would be able to continue, and anticipated possibly dropping out (Archer *et al.*, forthcoming). The introduction of the child-care grant thus seems to be a particularly positive step that is likely to continue to produce increased applications from this group, providing that information about it is sufficiently well disseminated, and should also reduce the numbers dropping out for financial reasons.

The NUS (1999) report that 41% of full-time undergraduates had a job in term-time and that they were working on average 13 hours a week. A significant proportion felt that their employment was detrimental to their studies (54% of undergraduates). Barke *et al.* (2000)<sup>29</sup> found that students working in term-time on average had slightly lower marks in assessments. This may mean that they could be more likely to leave as a result of poor academic performance. Mature students have been found to be less likely than younger students to work in term-time (Barke *et al.*, 2000; Callender and Kemp, 2000) though it should be noted that these studies have defined mature students as 26 and over or 25 and over respectively. However, Barke *et al.* report that those mature students that do work are likely to be working above the median hours per week, and are more likely than younger students to indicate that they are working 'simply to remain at university'. From this the authors conclude that some mature students may be facing considerable financial hardship.

#### *Academic Factors*

Academic difficulties were the third most cited factor in withdrawal from courses among mature students, mentioned by 32% (compared with 30% of younger students) (Davies & Elias, forthcoming). However, they suggest that academic difficulties actually play a much more important role than this figure indicates, since many of the early leavers also indicated, in response to other survey questions that keeping up with the course was a problem. (However, academic difficulties may be attributed to mistaken choice of course or to personal and financial difficulties).

It has been suggested that length of time between gaining entry qualifications and HE entry may be linked to non-completion among mature entrants (CNAA, 1992). Both high and low levels of prior educational attainment can affect dropout (unable to keep up versus not taxing enough) (Bourner *et al.*, 1991, Benn, 1995). When 'aiming for accreditation / certification' is not the main aim of undertaking the course, this can increase attrition rates among mature students (Benn, 1995, Lund, 1989).

A number of writers have called for there to be a *re-definition* of non-completion: for example, suggesting that some adult non-completers could be re-classified as 'early completers' who have gained all the benefits they require from post-compulsory education, which may not necessarily entail gaining accreditation (Harvey 1995). From an international perspective, high rates of attrition are not always perceived as problematic or undesirable, such as in Italy (Benn, 1995). Jones & Thomas (2001) criticise current assumptions around student retention for being very narrow, addressing only standardised rates of completion. They propose an alternative approach, emphasising institutional

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<sup>29</sup> In this study, questionnaires were sent to students at the University of Northumbria, findings are based upon 879 responses.

flexibility, credit accumulation, transferability in tune with Lifelong Learning. This alternative approach stresses frequent periods of learning (with breaks) and moves away from traditional time/location constraints. 'It may also be instructive to look at different models of student participation and completion in an institutional context' (p.2). They criticise traditional HEI models for pathologising and blaming 'new' constituencies of learners, e.g. for being 'poorly prepared' for HE or lacking academic ability. 'This effectively attributes a relationship of cause and effect to the higher rates of participation by non-traditional entrants and the slight increase in instances of non-completion over the last decade' (ibid.). They question this assumption, and suggest causes could lie instead with personal, institutional and/or financial issues. They suggest these are crucial concerns because they can lead to 'questionable and perhaps damaging policies and practices'.

Davies & Elias (forthcoming) report that those students withdrawing from courses made relatively limited use of the support systems available to them. The personal tutor was the most frequently used source of advice (by 42% of over 21s and 48% of under 21s). However, a quarter of those who had consulted personal tutors reported that they were 'not useful at all', compared with only 13% who regarded them as 'very useful'. Over 21s were more likely than younger students to report making use of counselling services (23% of over 21s but only 13% of under 21s). The usefulness ratings were similar to those for personal tutors. Mature students were also more likely than younger students to seek advice about deferral (21% over 21, 9% under 21) - perhaps as a result of a stronger commitment to entering HE in the first place. They were also more likely than younger students to seek financial advice and to apply for Access or Hardship funds. Overall the mature group in Davies & Elias' study emphasised the importance of financial support in preventing withdrawal.

Jones and Thomas (2001) argue that HE cultures need to change to respond to the needs of mature students. They consider that currently institutional responses bolt on additional support services for helping students adapt to an alien environment, rather than change institutional culture. They therefore recommend new patterns of staff recruitment, progressive teaching/learning practices, curriculum breadth, alternative assessment practices and cultural shifts concerning what constitutes knowledge, 'all of which should be tailored to accommodate difference'.

#### *International Studies*

Work from other countries points to the importance upon retention rates of factors including academic integration, social integration, institutional commitment, grade point average, financial satisfaction and goal commitment (Sandler, no date). Inadequately trained mentors (Marinelli, 1991), the perceived utility of education for future employment, satisfaction with student role, opportunity to transfer and age (Metzner & Bean, 1987) may also impact upon non-completion rates among mature students.

An Australian study with 118 mature female students shows they perform academically well (above average) and have confidence in their abilities, and being a mother is not a barrier to achievement. But 42% of such students failed to complete due to a variety of reasons including family responsibilities, work responsibilities, practical difficulties, financial problems, lack of support from family members, dissatisfaction with course/lack of academic feedback and staff attitudes in particular subjects (law, economics, business) (Scott *et al.*, 1996). The importance of provision of information and guidance is also highlighted by Brindley (no date) in relation to improving retention in Canadian HE.

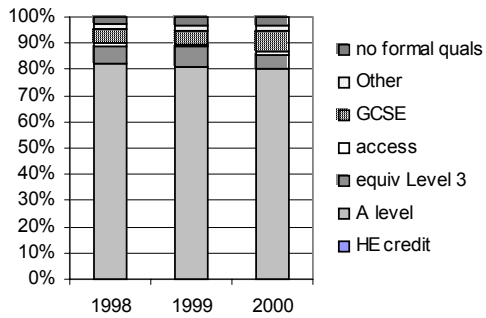
## SECTION C: ENTRY ROUTES

While students under 21 are very largely admitted by A-level routes, this is not the case with students post 21. A wide range of admission patterns is displayed. These vary by the type of course being undertaken – for example, undergraduate degree courses compared to HNDs – the mode of study, by age, by social class background, and by ethnicity. In any consideration of the potential for recruiting mature students, attention must be given to the diversity of potential qualifications used for admission. In the following analysis qualifications have been categorised using the standard HESA derivation (table 27)

**Table 27: HESA derivation of Highest Qualifications on entry to Higher Education**

<b>HESA categorisation</b>	<b>Description of qualification on entry</b>
Postgraduate	Higher degree of UK institution Postgraduate diploma or certificate, excluding PGCE Postgraduate equivalent qualification not elsewhere specified
PGCE	PGCE with QTS/GTC Registration PGCE without QTS/GTC Registration
UK First degree	Undergraduate qualifications with QTS First degree of UK institution
Other graduate & equivalent	Graduate of EU institution Graduate of other overseas institution NVQ/SVQ level 5 Graduate equivalent qualification not elsewhere specified
HE credits	O.U. credit(s) Other credits from UK HE institution
Other HE & Professional	Certificate or diploma of education (i.e. non-graduate) HNC or HND (including BTEC and SCOTVEC equivalents) Dip HE. NVQ/SVQ level 4 Professional qualifications. Foundation course at HE level Other HE qualification of less than degree standard
Level 3	Any combinations of GCE A/SCE Higher and GNVQ/GSVQ or NVQ/S ONC or OND (including BTEC and SCOTVEC equivalents)
A Level equivalents	A-level equivalent qualification not elsewhere specified
Access	ACCESS course
GCSE	GCSE/O level qualifications only; SCE O grades and Standard
Other	Foundation course at FE level Baccalaureate Other non-advanced qualification Other non-UK qualification, level not known
No formal qualifications	Accreditation of Prior (Experiential) Learning (APEL/APL) Mature student admitted on basis of previous experience Student has no formal qualification

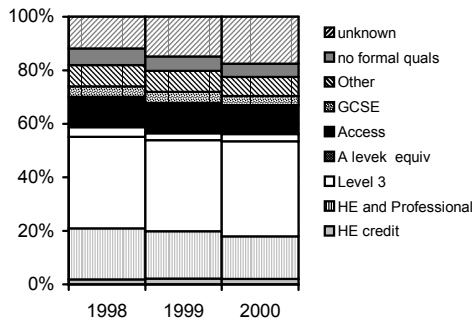
**Figure 31: Highest Qualification on entry: Full-time students starting undergraduate degree programmes under age 21**



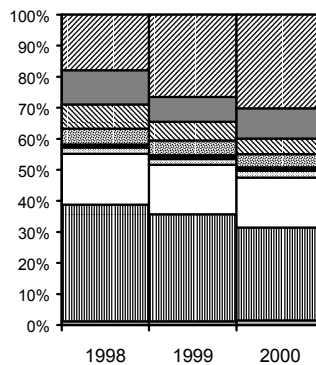
Source: UCAS

**Figure 32: Highest Qualification on entry: Full-time mature students (21 - 30): full-time and part-time modes of study**

percentage of full-time students 21-30 by entry qualifications



percentage of part-time students 21-30 by entry qualifications

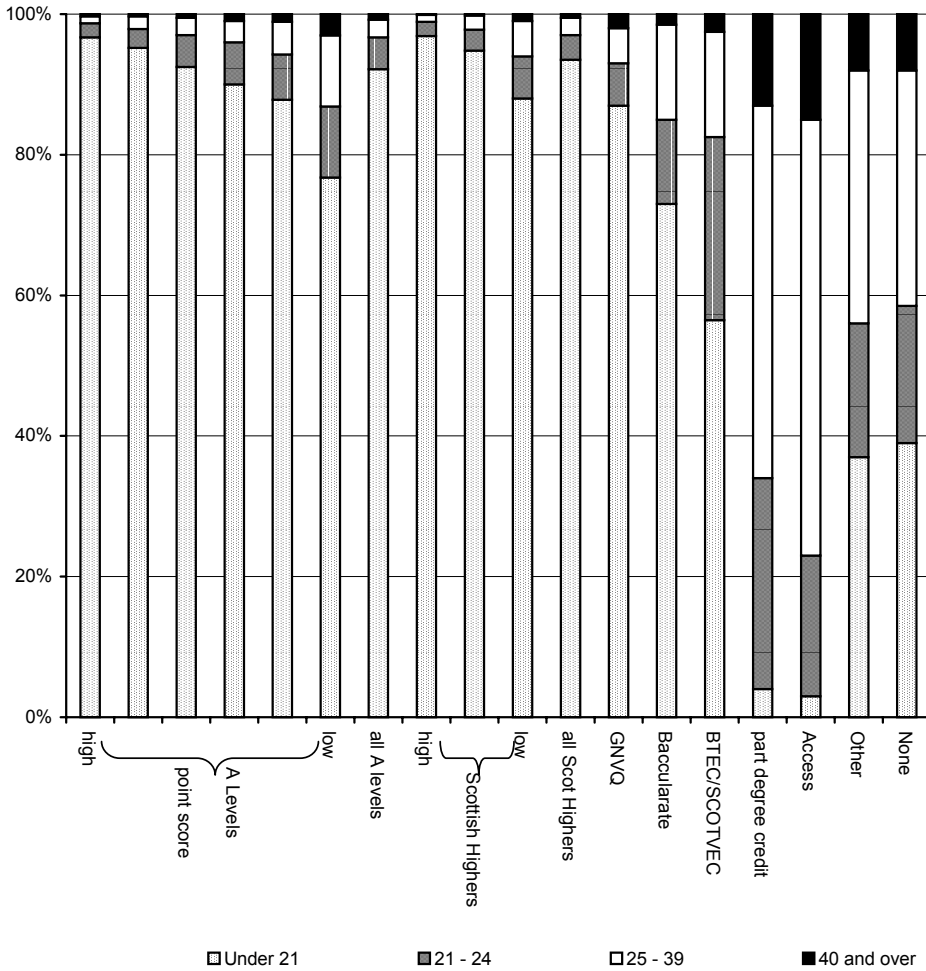


Source: HESA data (autumn entry)

Figures 31 and 32 show very dramatically that students under 21 rely on A Level or equivalent other Level 3 qualifications for entry, while mature students are far less dependent on this entry route. Part-time mature students in particular are least likely to enter with such qualifications. Previous HE credits and study form the most substantial route into part-time HE courses, which suggests again that many part-time mature students are returners to HE, rather than initial students, even though they are taking courses at undergraduate level. Access routes are more commonly used for full-time mature entry than for either young full-time entrants or for mature part-time entrants. A substantial number of mature students – and an apparently growing number – are entering with ‘unknown’ qualifications. There are significant proportions of mature students who are entering with no formal qualifications

(defined by HESA to include APEL/APL and previous experience: see the HESA derivations in Table 26 above). This variation by age can be shown in more detail in figures 33 and 34, for the 1994 and the 2000 entry (full-time students on degree and HND courses combined). The higher the A-level point score (or the equivalent Scottish Highers score), the younger the point of entry into Higher Education. (Data is used from UCAS because only this has the A-level point score).

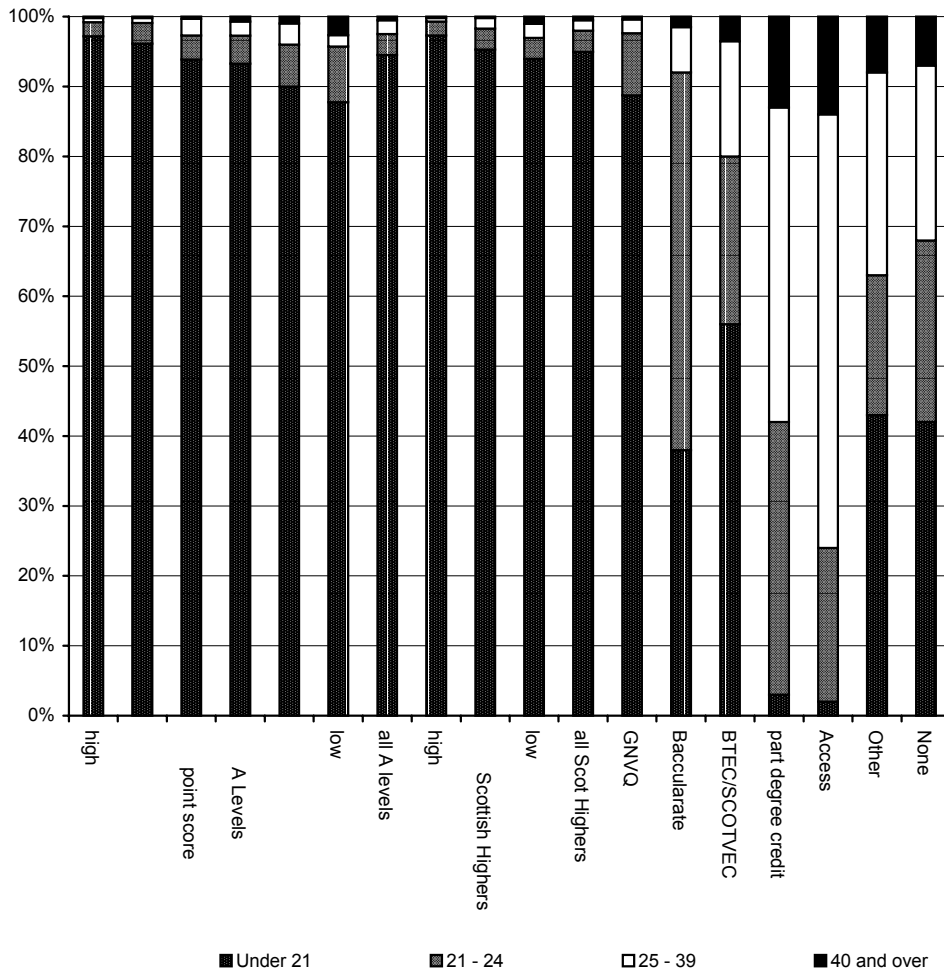
Figure 33: 1994 entry - qualifications for entry to full-time undergraduate courses via UCAS by age



Source UCAS

Access course entry, and entry with partial degree credits, are seen to be almost exclusively post 21 modes of entry (and indeed, largely post 25 entry). The distribution in 2000 (Figure 34) shows that the tendency had shifted towards younger entry, almost whatever the qualifications level, and there are also fewer students starting after 40.

Figure 34: 2000 entry - qualifications for entry by age

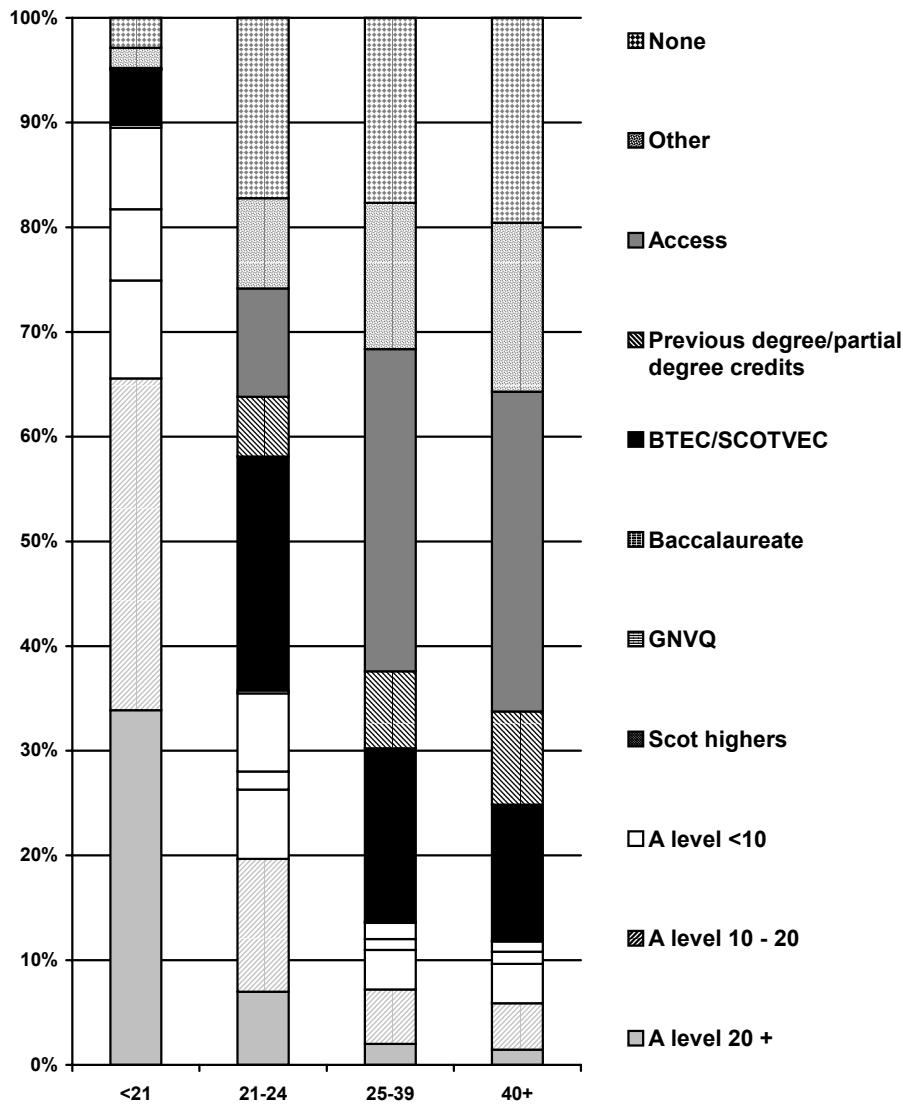


Source: UCAS

The type of course being studied is also significant. The highest qualifications on entry vary between HND courses and Degree courses, and within each of these also between mature and non-mature students. Figures 34 and 35 show the qualification levels of both kinds of full-time courses, showing four columns representing students under 21, the ‘young matures’ of 21 – 24, the older matures of 24 to 39, and the post 40 year old students (UCAS data with A Level point scores is only provided in these categories).

In terms of degree students, once past the age of 21 the entry characteristics are very different: around 17% of all mature students start with no qualifications recorded. ‘Other’ qualifications and Access course entry increase sharply after the age of 24. BTEC qualifications are particularly important for the 21 to 24 year old entrants, and GNVQ qualifications are significant for both the under 21 and the 21 – 24 groups (about 7% in each case), and much less significant for older mature students.

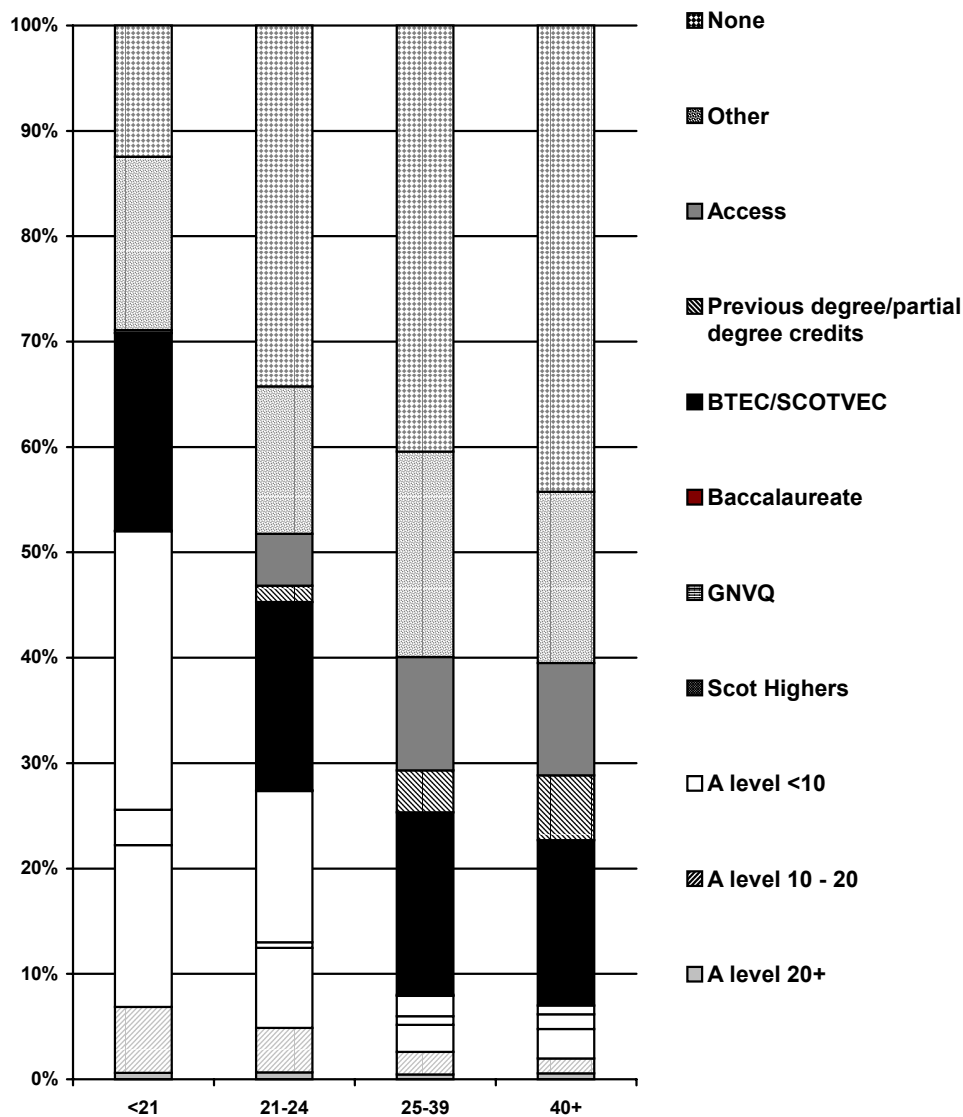
Figure 35: Degrees full-time 2000 entry: qualifications as % of age cohort



Source: UCAS

HND students (Figure 36) show an analogous pattern, but one in which there is already much greater diversification of entry qualifications among the under 21 students. Only around 25% of these young students enter with A-level qualifications or Scottish Highers. No formal qualifications are recorded for over a third of all post 21 students, and for over 40% of all students of 25 and older.

Figure 36: Full-time HNDs 2000 entry: qualifications as % of age cohort



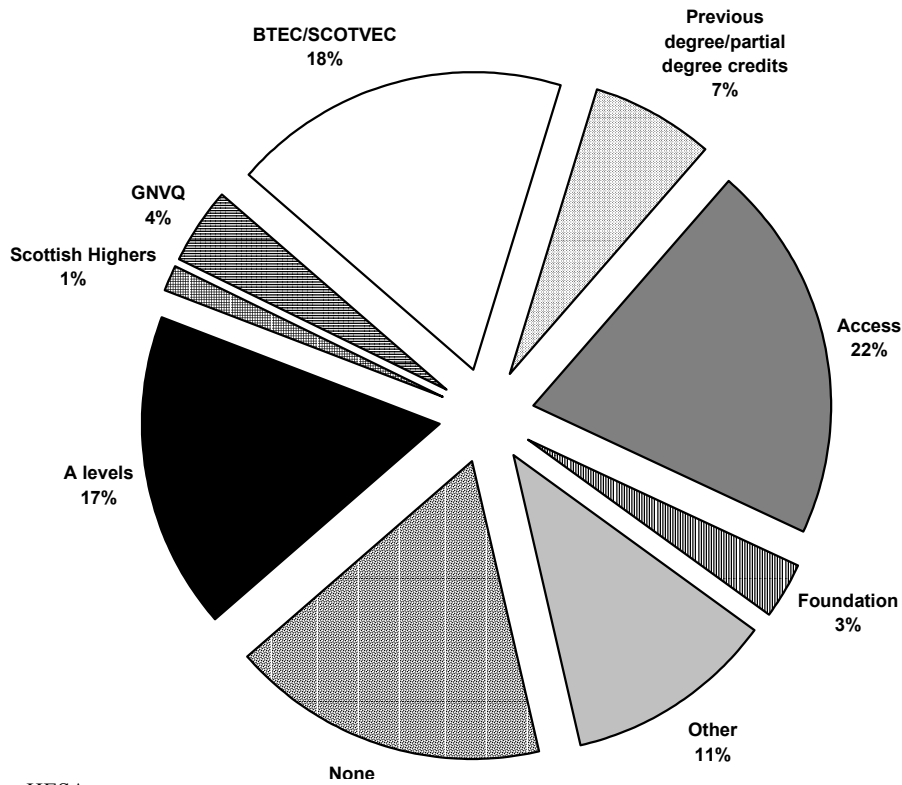
Source: as figure 35

The following pie charts (Figures 37 and 38) look at entry qualifications using HESA data. This is slightly less detailed than the data from UCAS (in particular it does not include A-level points). However, HESA data covers all mature students (not just those studying full-time who applied through UCAS). HESA data is examined to explore differences in entry qualifications of part-time versus full-time mature students in comparison with younger students.

For mature students entering degree courses, the four major qualifications for entry are Access routes, BTEC, A-levels and “no entry qualifications”. They are all of similar importance, and between them account for three-quarters of all students.



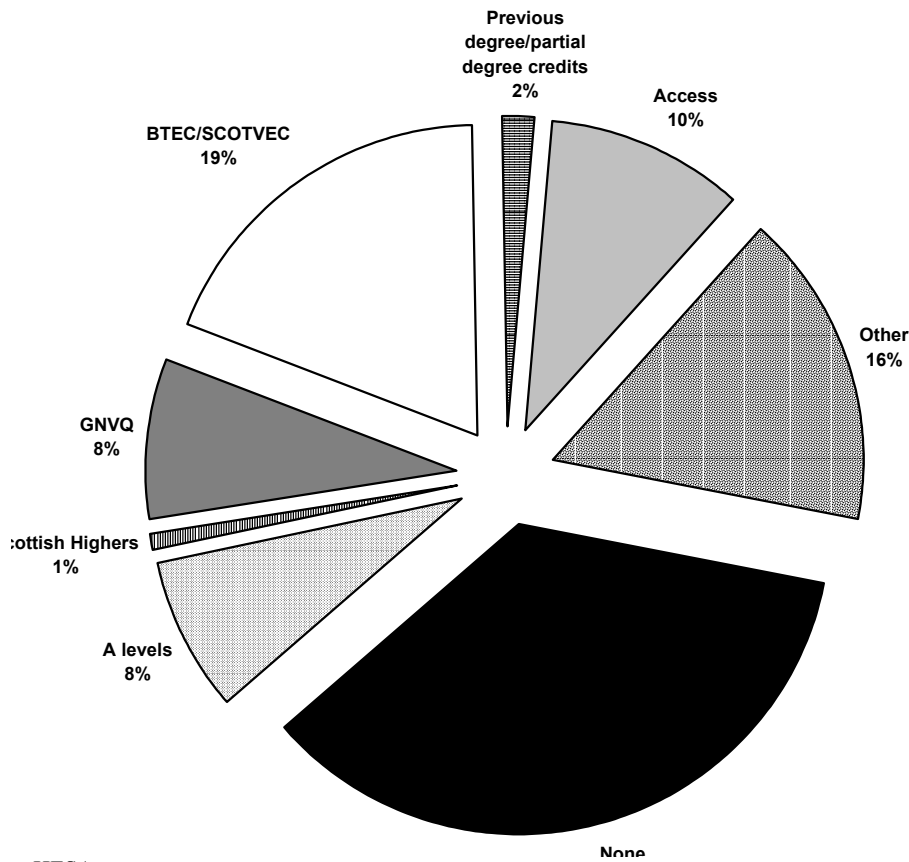
Figure 37: Entry qualifications to Degree courses, 2000, students over 21 only (full-time and part-time)



Source: HESA

For mature HND students (far fewer in number), over one third arrive with no formal qualifications, and 'other' qualifications and BTEC are the other two major types of qualification used for entry. These three account for over 70% of all mature HND students.

Figure 38: Entry qualifications to HND courses, 2000, students over 21 only



Source: HESA

This suggests that, in considering the potential pool of mature students, attention should not only be focussed on those non-participants in the 21 – 30 year old cohort who have Level 3 qualifications, or even those with Level 2 qualifications. These will constitute an important source of supply to the mature student market – but it is also important to attract some non-participants with no formal qualifications who demonstrate, e.g. through APEL or previous experience, that they have the potential and motivation to benefit from HE.

Table 28 shows the various highest qualification levels mature full-time students have on entering degree level courses for 1998 - 2000, using the autumn entry data. Unlike the material in Figure 34, this includes the 20% of students who have previous experience of HE (as reflected in having HE level qualifications or HE credits) and unknowns, and, as with figures 37 and 38 it is collected by HESA. For these students, Level 3 qualifications become increasingly less significant with age: almost half the 21 year olds enter on the basis of level 3 or equivalent qualifications, and less than a quarter of the 28 to 30 year olds.

**Table 28: Qualifications on entry into full-time degree level courses, by age on entry, 1998 – 2000 (autumn entry only)**

Age Group	1998		1999		2000	
	<i>n</i>	%	<i>N</i>	%	<i>n</i>	%
<b>21</b>						
HE credits	187	1.9	220	2.3	252	2.6
Other HE & Professional	2335	24.3	2021	21.1	1839	18.7
Level 3	4473	46.5	4316	45.1	4643	47.2
A Level equivalents	434	4.5	318	3.3	257	2.6
Access	357	3.7	409	4.3	382	3.9
GCSE	157	1.6	163	1.7	146	1.5
Other	564	5.9	590	6.2	598	6.1
No formal qualifications	255	2.7	281	2.9	259	2.6
Unknown	857	8.9	1242	13.0	1452	14.8
	9619	100.0	9560	100.0	9828	100.0
<b>22</b>						
HE credits	126	2.2	142	2.6	144	2.6
Other HE & Professional	1356	23.2	1147	21.0	988	17.8
Level 3	2304	39.4	2107	38.6	2246	40.5
A Level equivalents	225	3.9	174	3.2	149	2.7
Access	461	7.9	442	8.1	502	9.0
GCSE	113	1.9	119	2.2	77	1.4
Other	434	7.4	375	6.9	360	6.5
No formal qualifications	249	4.3	191	3.5	183	3.3
Unknown	576	9.9	762	14.0	898	16.2
	5844	100.0	5459	100.0	5547	100.0
<b>23-24</b>						
HE credits	145	2.1	156	2.5	143	2.3
Other HE & Professional	1336	19.4	1183	18.8	1057	17.3
Level 3	2368	34.4	2073	32.9	2121	34.8
A Level equivalents	231	3.4	178	2.8	186	3.0
Access	977	14.2	875	13.9	755	12.4
GCSE	184	2.7	156	2.5	100	1.6
Other	612	8.9	529	8.4	469	7.7
No formal qualifications	338	4.9	304	4.8	296	4.9
Unknown	696	10.1	851	13.5	972	15.9
	6887	100.0	6305	100.0	6099	100.0
<b>25-27</b>						
HE credits	149	2.2	150	2.5	105	1.9
Other HE & Professional	1303	19.1	1159	19.2	975	17.7
Level 3	1897	27.8	1550	25.6	1547	28.1
A Level equivalents	221	3.2	144	2.4	145	2.6
Access	1294	18.9	1168	19.3	977	17.7
GCSE	216	3.2	170	2.8	127	2.3
Other	595	8.7	458	7.6	405	7.4
No formal qualifications	483	7.1	394	6.5	363	6.6
Unknown	673	9.9	854	14.1	862	15.7
	6831	100.0	6047	100.0	5506	100.0

.... continued

Age Group	1998		1999		2000	
	<i>n</i>	%	<i>N</i>	%	<i>n</i>	%
<b>28-30</b>						
HE credits	108	2.1	117	2.5	106	2.4
Other HE & Professional	917	17.8	868	18.7	766	17.6
Level 3	1188	23.1	979	21.1	998	22.9
A Level equivalents	146	2.8	95	2.0	92	2.1
Access	1221	23.7	1071	23.1	986	22.6
GCSE	173	3.4	140	3.0	97	2.2
Other	444	8.6	387	8.3	303	7.0
No formal qualifications	431	8.4	336	7.2	313	7.2
Unknown	515	10.0	646	13.9	696	16.0
	5143	100.0	4639	100.0	4357	100.0

Source: HESA data. As with the earlier analyses of HESA data in this report, this includes all FE colleges conducting HE work who make returns to HESA.

Table 29 contrasts the highest qualification on entry by different modes of study, and includes all HE students (including full-time students on non-degree level courses, unlike Table 22). The significance here is the almost identical profile of the full-time with the "other" mode (principally sandwich mode, which is relatively very small), where Level 3 and equivalent courses are very important (about 38% of the total). Part-time students have very different entry routes, using other HE and professional qualifications - and many "unknown" routes.

**Table 29: Qualifications on entry for entrants aged 21 - 30, all higher education courses, by mode, 1998 – 2000 (autumn entrants only)**

<b>Mode: Full-time</b>	<b>Year</b>		
	<b>1998</b>	<b>1999</b>	<b>2000</b>
HE credits	795 <i>1.8</i>	866 <i>2.1</i>	811 <i>2.0</i>
Other HE & Professional	8271 <i>19.1</i>	7214 <i>17.8</i>	6415 <i>16.0</i>
Level 3	14849 <i>34.3</i>	13766 <i>34.0</i>	14297 <i>35.6</i>
A Level equivalents	1550 <i>3.6</i>	1057 <i>2.6</i>	1076 <i>2.7</i>
Access	4927 <i>11.4</i>	4582 <i>11.3</i>	4334 <i>10.8</i>
GCSE	1704 <i>3.9</i>	1668 <i>4.1</i>	1370 <i>3.4</i>
Other	3448 <i>8.0</i>	3155 <i>7.8</i>	2868 <i>7.1</i>
No formal qualifications	2649 <i>6.1</i>	2196 <i>5.4</i>	1961 <i>4.9</i>
Unknown	5151 <i>11.9</i>	6002 <i>14.8</i>	7063 <i>17.6</i>
<b>Total</b>	<b>43344</b> <b>100</b>	<b>40506</b> <b>100</b>	<b>40195</b> <b>100</b>

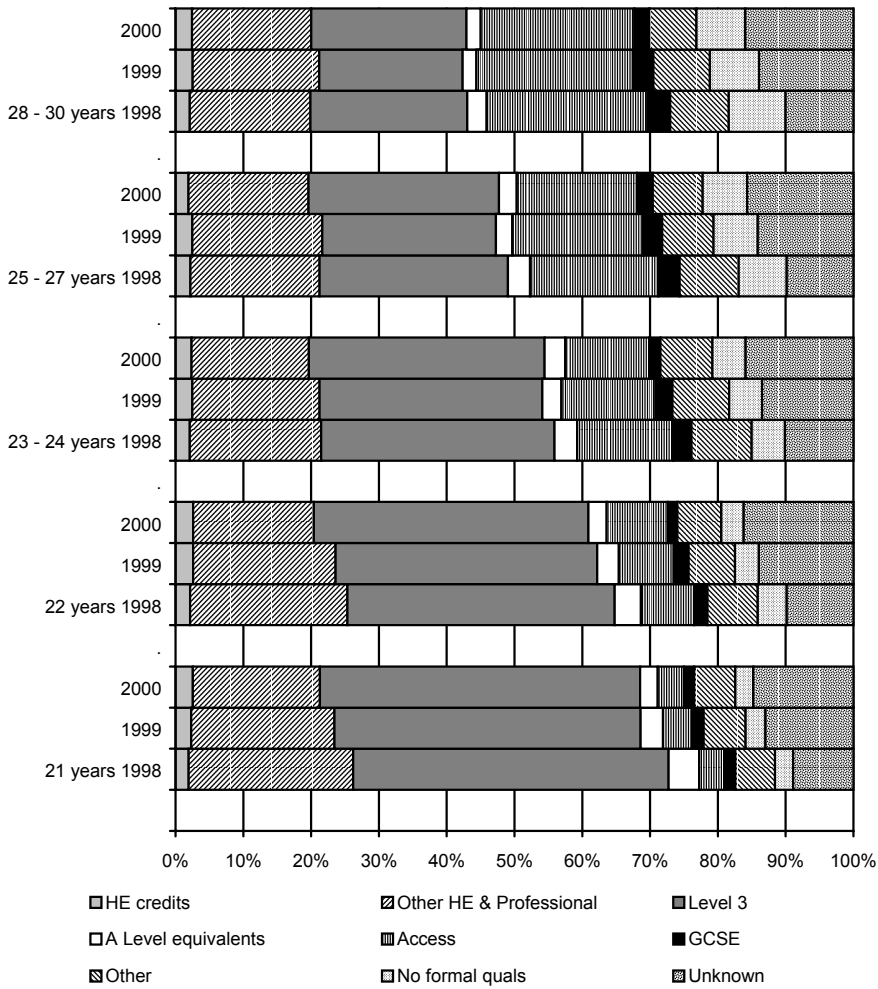
<b>Mode: Part-time</b>	<b>Year</b>		
	<b>1998</b>	<b>1999</b>	<b>2000</b>
HE credits	371 <i>1.1</i>	365 <i>1.2</i>	409 <i>1.5</i>
Other HE & Professional	12219 <i>37.6</i>	10788 <i>34.6</i>	8145 <i>29.9</i>
Level 3	5308 <i>16.4</i>	4959 <i>15.9</i>	4391 <i>16.1</i>
A Level equivalents	659 <i>2.0</i>	593 <i>1.9</i>	599 <i>2.2</i>
Access	346 <i>1.1</i>	386 <i>1.2</i>	314 <i>1.2</i>
GCSE	1638 <i>5.0</i>	1474 <i>4.7</i>	1153 <i>4.2</i>
Other	2525 <i>7.8</i>	1893 <i>6.1</i>	1374 <i>5.0</i>
No formal qualifications	3580 <i>11.0</i>	2496 <i>8.0</i>	2658 <i>9.7</i>
Unknown	5817 <i>17.9</i>	8269 <i>26.5</i>	8223 <i>30.2</i>
<b>Total</b>	<b>32463</b> <b>100</b>	<b>31223</b> <b>100</b>	<b>27266</b> <b>100</b>

.... continued

<b>Mode: Other</b>	<b>Year</b>		
	<b>1998</b>	<b>1999</b>	<b>2000</b>
HE credits	101 <i>2.0</i>	107 <i>2.4</i>	117 <i>2.9</i>
Other HE & Professional	1177 <i>22.8</i>	931 <i>20.6</i>	740 <i>18.5</i>
Level 3	1870 <i>36.2</i>	1558 <i>34.5</i>	1587 <i>39.7</i>
A Level equivalents	84 <i>1.6</i>	52 <i>1.2</i>	71 <i>1.8</i>
Access	488 <i>9.5</i>	480 <i>10.6</i>	444 <i>11.1</i>
GCSE	95 <i>1.8</i>	106 <i>2.4</i>	69 <i>1.7</i>
Other	439 <i>8.5</i>	360 <i>8.0</i>	239 <i>6.0</i>
No formal qualifications	298 <i>5.8</i>	280 <i>6.2</i>	256 <i>6.4</i>
Unknown	610 <i>11.8</i>	636 <i>14.1</i>	472 <i>11.8</i>
<b>Total</b>	<b>5162</b>	<b>4510</b>	<b>3995</b>

The following figure (Figure 39) shows changes in mature student entry qualifications over the past three years, by age. Each set of three rows represent three years for one age set. These figures are based on HESA data, and these include part-time students, and students who are re-entering Higher Education at undergraduate level: note the numbers (between 20 and 25%) entering with HE credits or HE and other professional qualifications. There is an increasing number of 'unknown' qualification levels year on year.

**Figure 39: Changes in highest level on entry to degree courses, full-time mode mature students, by age, 1998 – 2000 (autumn entry).**



Source: HESA

## LITERATURE ON ENTRY ROUTES

An important issue is **the degree to which HE staff welcome applications from mature students**. This relates both to age and to the entry routes that mature students use. These two aspects are not easily separable, as mature students tend to enter HE with qualifications other than A-levels.

Davies et al. (2002), interviewing staff in 9 HEIs with higher than average numbers of mature students, report a wide variation in enthusiasm about taking on mature students, both between institutions and between departments within institutions. Some departments reported that they had no particular focus on recruitment of mature students, or that they did not target them. Others argued that while application rates were healthy there was no need to target mature students, who were thus seen as an optional extra, available for filling places if needed. One tutor reported active discouragement of mature applicants and entrants because the environment of a campus university was difficult for them. Some prioritised the recruitment of younger non-traditional students - those from ethnic minority groups or those with disabilities.

More often it appeared that the lack of enthusiasm for recruiting mature students was connected to a concern for academic reputation. In one institution a senior manager argued that recruitment of mature students with alternative qualifications would damage the positioning of the institution in HE league tables. Some HEIs had used recruitment requirements to raise their academic standing, emphasising A-level point scores. That inevitably militated against mature applicants who, as we have shown, generally offer non-standard qualifications. In some cases particular departments, rather than whole institutions, had raised their A-level points requirements. Some respondents pointed out that mature students without A-levels had less chance of doing well on the course. There is a strong sense in many of the responses that mature students are more time-consuming (and therefore costly) and are less likely to do well, and so are not welcome.

Other institutions and departments, however, argued that the recruitment of mature students was embedded in the institutional policy agenda. Such institutions generally had well-developed AP(E)L arrangements leading to the award of credits and advanced standing. Case studies identify good practice in this area (e.g. Peters, Pokorny & Sheibani, 1999). Such arrangements are more likely to attract potential mature students.

These contrasting attitudes to recruitment of mature students can be seen in Hogarth *et al.*'s (1997)<sup>30</sup> case study of two universities. In interviews at a 'Civic' university academic staff in some disciplines had quite negative views of Access students, and commented that they tended to end up in the bottom of the cohort. Mature students and those with non-standard qualifications were estimated to cost more because they required more support. But in other disciplines staff had a far more positive attitude. At a 'Campus' university one department reserved a third of its places for mature students in the belief that they enliven sessions and make a positive contribution with their wider experience. This positive view of teaching mature students is common among staff that teach them on a regular basis; many prefer to teach such students (Davies et al., 2002). However, those universities that recruit a high proportion of mature students are found in the lower part of university league tables. Some staff suggested that the commitment of senior management to access is variable and changes with policy initiatives and funding arrangements.

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<sup>30</sup> The aims were addressed from an empirical point of view based on the following elements (1) an analysis of the educational and demographic characteristics of traditional and non-traditional students based on the Labour Force Survey. (2) A postal questionnaire survey of traditional and non-traditional students whose final year of study was in 1995/6 to address their perceptions about the returns to HE (3) A telephone survey of 500 non-traditional students – drawn from the postal survey- to capture a more in-depth set of views about their experiences of HE (4) 5 case studies of HE institutions to address the relative costs and benefits to the institution of providing HE to traditional and non-traditional students respectively.



The wide variety of vocational or access qualifications, or lack of qualifications, with which mature students enter HE can thus be seen as a way in which the hierarchy of universities is maintained. For many working class students, their local university is a post-1992 institution with a strong tradition of access but a low ranking in league tables. Reay (1999), interviewing Access students, found that some were unwilling to enter the universities that would be likely to offer them places. The hierarchy of HEIs is thus a deterrent to some potential mature students.

Although studies have been carried out on mature students in HE, little has been written on mature applicants who were unsuccessful. Murphy & Inglis (2000)<sup>31</sup> investigated the experiences of mature applicants who were unsuccessful in gaining entry to their chosen university, which did not encourage mature applicants and admitted low numbers. It did not operate any recognised access routes for mature applicants. Unsuccessful applicants were unhappy with the way they were rejected and concerned at the lack of information available on how to gain entry. The experience of being rejected resulted in feelings of inadequacy. However, around half persisted and eventually gained places elsewhere.

Hutchings & Archer (2001) found that there was considerable **confusion among working class non-participants about the qualifications required for entry to HE**. This was particularly strong among the mature non-participants. This partly results from the very wide range of named qualifications: A and AS levels, GCSE, GNVQ, BTEC, City and Guilds and so on. Some respondents in this research were aware that the various qualifications are differently valued by universities, and this led to concerns that universities would not welcome applicants with vocational qualifications, or that those entering with vocational qualifications would be labelled and would not be able to achieve the highest marks in HE. Access routes were also discussed with suspicion; respondents were concerned that universities were simply trying to make money by asking potential entrants to do a course before embarking on higher education. Similarly the notion that one might be able to enter HE without qualifications was greeted with concern, as this could lead to mixed ability groupings, and those with lesser ability might dominate class time and hold other students back.

Davies et al (2002) identify **considerable variation in the level of resources committed to recruitment, support and retention of mature students**. As mentioned previously, this report is based on research in a small number of HEIs that take large numbers of mature students. It is thus likely that a wider study, including HEIs that do not target mature students, would reveal wider variations. It can be argued that without the provision of a high level of support, there is little point in offering entry to students from non-traditional academic backgrounds. The data on withdrawal suggests that level of qualifications on entry is a significant factor in drop out. Those with vocational and Access qualifications are more likely to drop out than those with A-levels. Thus, if participation is to be widened by admitting students with qualifications other than A-levels, appropriate funding needs to follow to ensure that such students are successful. Bamber & Tett (1999) offer a case study of an HE course in which a high level of resources is devoted to the support of mature working class adults who have had negative experiences of school. A high level of tutorial and study skills support is provided to build on the strong personal aspirations that these students bring to the course. A high proportion of entrants complete the course, despite their low pre-entry qualifications. This case study illustrates the argument that widening participation must be concerned not only with entry, but also with successful completion (Woodrow, 1996).

There is a substantial literature about Access courses, designed to enable mature people without standard qualifications to gain entry to HE. Such courses often focus on particular disadvantaged groups, though it has been reported that some have been 'colonised' by the middle classes (Wakeford, 1993; Davies 1995). A major emphasis in all such studies is **the need to support students**, not only on the Access course but also when they enter HE. Neville (1994) aimed to find out what makes

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<sup>31</sup> This study examined unsuccessful mature applicants. They recruited a random sample of 200 names from a list of unsuccessful applicants in 1997 and sent out a postal questionnaire, of which 74 were returned (37% response rate). A sample of 10 applicants was chosen and 2 focus groups of 5 respondents were held.

adults join Access courses. The study reports that the access course was widely perceived as part of 'unfinished business' of on-going continuing education to 'compensate for interrupted or discontinued secondary school education'. The most frequently cited reason for returning to study was being in low-paid, low control employment; better job and career prospects were ranked as the main motivation by 44% of respondents<sup>32</sup>. Neville also reports that many students reported feeling isolated, and alienated from friends and families. Thus the Access course needs to provide such support to those returning to study.

Capizzi (1996) highlights the limited statistics available on completion rates for Access courses, and reports on the studies that do exist considering achievement rates on 'kitemarked' Access certificates and the percentage progressing to HE. She argues that Access programmes were conceived of as a risky enterprise, and one would not expect such high levels of completion as for more conventional entry routes to HE. However, the data examined suggests that in general Access courses may be delivering somewhat higher completion rates for mature students.

A further way of assessing Access courses is on the achievement of Access students once they enter HE. Waters and Gibson (2001), in a longitudinal research project with students on a university-based Access course, emphasise the importance of such courses in building up students' self-esteem. The Access course was important in helping them to believe in themselves and believe they can enter and succeed in university. However, such support needs to be continued in HE. Current models of student support are inadequate because students will not necessarily access them, precisely because they lack confidence. They recommend that tutors and support staff need more time in which to 'develop and sustain confidence in the mature adult's own self-integrity'.

Another study of progression to HE was carried out by Inman (1999), focusing on the progression of mature students from the Science Access Programme at University College Stockton (UCS). She found that 59% of those who embarked on the Access course with the aim of progressing to another course had achieved this. But students also cited many other gains: in particular the course had increased their self-confidence.

There are many other case studies of Access courses. Researchers have also evaluated other widening participation initiatives: for example, Walker (1999)<sup>33</sup> carried out a longitudinal study of drop-out and continuing students who attended a pre-University Summer School.

This study unequivocally states that the students' own motivation is the crucial factor affecting retention/attrition. It concludes that successful students could not have been predicted based on background information such as family tradition or previous qualification.

A clear conclusion from the literature surveyed is that successful teaching of mature students who enter HE through non-standard routes involves the provision of extra time and support. This was acknowledged both by HEIs that do take on such students in large numbers, and by those that do not, as well as by those involved in Access courses. Thus, if they are to be successful, HEIs admitting mature students with non-standard qualifications require extra funding. However, any funding should be conditional on universities and colleges demonstrating that their processes are effective in assessing the potential of applicants.

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<sup>32</sup> This study used a questionnaire survey of 124 male and 235 female Access students

<sup>33</sup> This article examined problems encountered by (and the similarities and differences between) students who drop-out and those who continue at University. 57 participants were interviewed, 18 dropped out over the period of time examined.

## SECTION D: POLICY CHANGES AND FUTURE TRENDS

### Student Finance

The evidence available suggests that in comparison with younger age groups, mature student participation is more sensitive to changes in student finance arrangements. This can be seen both from qualitative research examining the views of students, applicants and potential students, and more dramatically, from changes in mature student full-time applications since 1997. The excellent large-scale survey research conducted by Connor *et al.* (1999)<sup>34</sup>, Connor and Dewson (2001)<sup>35</sup>, Callender and Kempson (1996), and Callender and Kemp, 2000)<sup>36</sup> in this area also provides sound and valuable data in respect of the impact of financial changes upon participation.

Between 1997 and 1998 (when tuition fees were introduced) UCAS figures relating to full-time students show that the number of mature applicants accepted onto degree courses decreased by 11.41% (whereas under 21s increased by 1.17%) (UCAS, 1999). By 2000, the enrolment figures for mature full-time students were down by 26% since 1997 (*THES*, 20.7.01). However, in July 2001, UCAS reported a 6.2% rise in the number of mature applicants (UCAS press release, 20.07.01), and in October 2001, they reported that the number of mature full-time students had increased by 8.7% from 2000 figures (UCAS press release 12.10.01). This increase coincided with the introduction of a grant for mature students to cover 85% of the costs of childcare. It would seem, then, that policy changes in relation to student finance may have an immediate impact on participation. It should be noted, and it has been highlighted in the research reviewed in this report, that there are many interrelated factors that affect people's decision to participate in HE. As a result, it is extremely difficult to isolate the impact of any one factor, such as student finance, on the decision to participate or to explain changes in participation in terms of changes in just one factor.

There are other reasons for treating these figures with some caution. First it should be noted that while there was a decrease in mature student full-time recruitment in 1998, this followed an increase of 8.9% in 1997. Thus some students may have entered in 1997 rather than 1998 because of the changing financial arrangements, but it is not clear that large numbers decided not to enter at all. However, it does seem that finance is likely to have been one of the factors in the continuing decline in numbers from 1998 – and in the increased recruitment reported in 2001 by UCAS.

A second factor is the possibility that some students decided to study part-time rather than full-time as a result of the changes in financial support systems. However, Table 11 in this report shows that there was a considerable decrease in the number of part-time students studying for first degrees between 1996-7 and 1997-8, and only a very small increase in numbers in 1998-9. There is then no indication

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<sup>34</sup> The overall aim of the study was to explore factors that shape decisions to enter FT HE in the UK and students' choices of institutions. Its objectives focused on 3 key issues. (1) the importance of 'informed choice' (2) the need to widen participation and (3) the introduction of fees and increased costs to students of HE study. The Research comprised a number of modules: (1) National questionnaire survey of 36,245 applicants for entry into degrees and HNDs, which achieved a 61% response rate. Follow-up interviews were also conducted with 200 survey respondents. (2) National survey of 3,000 Year 11 school pupils and their Scottish equivalents covering 16 schools with a response rate of 65%, and six focus groups on their future plans and attitudes to HE.

<sup>35</sup> The research focused on 3 target groups of respondents: (1) Potential entrants from lower social class backgrounds, currently taking qualifications that would give them entry to an undergraduate course. A sample of 223 students at 20 colleges and schools took part in focus groups. (2) Current first-year HE students from both lower and higher social class backgrounds. A sample of 1,600 students at 14 institutions in England and Wales responded to a postal questionnaire survey (response rate 41%), a further 20 took part in follow-up interviews. (3) Non-HE entrants from lower social class groups, ages 20/21 years who were qualified to enter HE but decided not to: 112 in sample interviewed by telephone.

<sup>36</sup> Callender and Kempson (1996) and Callender and Kemp (2000) are the most recent of a series of Student Income and Expenditure Surveys. The most recent of these, conducted in 1998-9, involved face-to-face interviews with a representative sample of 2054 full-time and 747 part-time undergraduate and PGCE students attending 87 HE Institutions throughout the UK.

that substantial numbers decided on part-time rather than full-time study for their first degree. There was a larger increase in the number of part-timers studying for other undergraduate level courses including HE credits, but many of these students already had HE qualifications or credits and thus they were not all new entrants to HE.

A third factor here is the data used. We have already pointed out the difference in coverage between UCAS and HESA figures. But further confusion is introduced by different definitions of the populations to be studied (students studying for degrees, Dip HE, HND, undergraduate credits); by collection of data at different times of year and by different methods; and by the inclusion of different institutions (e.g. the 2001 UCAS data includes institutions that were not previously included – though these have been removed in the 8.9% year on year increase in mature student enrolment). One result of this is that using different data sets can arrive at very different patterns of mature student numbers. For example, HEFCE (2001) identify a pattern of steady year on year decline in full-time mature student numbers, whereas the UCAS figures for full-time students, as described above, showed an increase in 1997.

Further evidence of the sensitivity of mature students to financial issues comes from various surveys of mature student and potential mature student attitudes to participation and the factors that affect their decision-making. Obviously the most useful evidence comes from potential entrants, as those who are already students or are applicants have presumably decided that the benefits (financial and other) outweigh the disadvantages.

Connor and Dewson (2001) report that in comparison with younger people, mature potential entrants focused more on financial issues whether they planned to enter HE or not, and that they were more likely to see cost as a barrier. In particular, single parents worried about loss of benefits, and those that had worked were worried about the financial wrench of loss of salary. The DfES MORI survey (2001) found that 46% of mature potential applicants claimed that financial issues had influenced their decisions to a great extent and a further 15% to a fair extent – either stopping them from applying, delaying application or contributing to a decision to study part-time. Similarly Connor *et al.* (1999) reported that more mature applicants said that they had considered not doing the course at all on financial grounds (29% of 21-24 year olds and 39% of the 25 plus age group, compared with only 17% of those under 21 years). They conclude that for mature students the decision to apply for a university or college place is ‘fragile’ and susceptible to cost considerations. Similarly Davies *et al.* (2002) found that both new entrants and potential entrants identified finance as the most important disincentive to entry, mentioning fees, loans, costs and debts. Of new entrants, 20% ranked cost as the most important barrier, and 56% ranked it in the top five barriers. But among the potential entrants, cost was identified as the most important barrier by 45% of women and 30% of men. Fear of long-term debt was also widely mentioned. Respondents emphasised that most mature students have financial commitments such as mortgages and dependants, and that their circumstances are different from those of school-leavers. While some mature students acknowledge that the existence of loans has made it possible to study full-time the level of loan was not seen as large enough to cover outgoings. A similar pattern was also found by Hogarth *et al.* (1997) reporting on students who graduated in 1996; their survey of non-traditional students included those aged 25 and over. They found that among these students a greater proportion expressed doubts about entering HE relating to finance, childcare and domestic responsibilities. It may be reasonable to conclude, then, that financial issues will always be high on the agenda for mature students, and that in recent years these concerns have become more acute, e.g. following the replacement of the general maintenance grant with income contingent loans and the introduction of means-tested contributions to tuition fees.

Mature potential students generally rate the potential financial benefits of HE highly. Connor and Dewson (2001) found that potential entrants believed strongly that a higher education qualification would lead to a better job and better pay. Davies *et al.* (2002) showed that among new mature entrants labour market and employment related factors were the most important reasons for applying to enter HE. Overall they saw HE as preparing them for a new career rather than enhancing their prospects in their previous or current occupation. However, not surprisingly, while full-time students emphasised

preparation for a new career, part-time students tended to stress the enhancement of opportunities in their current work. New entrants had an optimistic view of the labour market and of their prospects. The role of labour market and employment factors in decision-making was similar for new entrants and potential entrants.

The DfES MORI survey shows that those who intended to enter HE and those who did not understood the financial benefits of achieving a degree. The benefit rated most highly was enhancement of career prospects /promotion/salary, indicated by 59% of those intending not to apply and 71% of those intending to. 14% of those not intending to apply and 11% of those intending to identified improvement in long-term financial position. In contrast other benefits of HE (e.g. self-esteem, interest in subject) were rated considerably higher by those who intended to apply.

This emphasis on financial benefits contrasts with the findings of Hogarth *et al.* (1997). They found that among those aged 25 and over going to University was seen as a means of self-development and raising self-esteem, and that in comparison with traditional students, the decision to enter HE was less geared to improving employment prospects and enhancing earnings. This may reflect rather different motivations among mature students at a time when HE was less costly.

Qualitative research suggests that there are differences in these perceptions of benefit between men and women, and across ethnic groups. In particular men rate the career and financial aspects more highly, while women take a broader view of 'bettering themselves' (Archer, Phillips and Pratt 2001, Archer, Hutchings and Leathwood 2001). This suggests that the 'rational' view of decision-making put forward in Dearing Report (NCIHE 1997), which argued that 'the economic benefits to individuals from participating in higher education ... are probably the most significant factor affecting demand' (paragraph 6.16) may not be appropriate to all potential entrants. These economic benefits were defined in terms of employment rates and pay levels, which can then be set against the costs incurred (including opportunity costs). The Report claimed that the private rates of return of gaining a degree would stimulate levels of demand for HE, if they were well known to students. Given the importance attached to labour market benefits from participation by the vast majority of students this is a reasonable generalisation. However, it is important to recognise that there are significant numbers of mature people whose main reasons for entering HE are to do with personal betterment, self-esteem and interest in learning or the subject rather than simply the expected financial rewards (although the latter will still in many such cases be important).

The Dearing Report assumed a decision-making process informed by adequate knowledge. While potential mature students do have some knowledge of the eventual economic benefits, researchers have generally found that there is considerable uncertainty among mature applicants and potential applicants about the financial costs involved in participation. They would like to have more precise guarantees of the nature of funding before deciding to enter HE (DfEE, 2000). Many of them say that they cannot tell whether they will be able to manage financially as students unless they know exactly what their income will be. At present there are too many imponderables which are accentuated by changes to student support arrangements over time.

There is evidence that mature students are more active in seeking out information about financial support than their younger counterparts; Connor and Dewson (2001) found that mature students are more likely to have made detailed financial plans for time in HE. Many had obviously sought out information about the level of fees, other funds available, and course specific bursaries and so on. In comparison to younger people they are more used to taking responsibility for their own finances.

However, it has also been found that many potential mature students often lack information about student support systems. This was particularly so among those not based in any educational institution. Those in schools seem to be most likely to have adequate information, and those in FE

colleges rather less (Roberts and Allen, 1997)<sup>37</sup>. Callender and Kemp (2000) found that students aged 25 or over were the least informed about the funding arrangements. Connor and Dewson (2001) found that most potential students were aware that student finance had changed, but were unclear about the specifics. Very few potential students knew about hardship and access funds. Davies et al 2002 also reports a high degree of uncertainty among applicants, even at a very late stage in the applications cycle. The DfES MORI survey supports the view that potential mature students generally feel that they know little or nothing about sources of funding available. 70% responded that they did not know how much the maximum student loan was.

A forthcoming report commissioned by HEFCE (*The Impact of Tuition Fees and Changes in HE Student Support on Student Demand*, by Nigel Brown), is cited in HEFCE (2001) as claiming that the level of understanding of the arrangements for financial support for students in HE remains poor, especially among lower socio-economic groups. There is ignorance about means-testing arrangements. The DfES MORI survey (2001) supports this claim: 72% of potential mature students indicated that those entering full-time HE courses have to pay all or part of their tuition fees; only 16% selected the option that 'it depends on their ability to pay'. Similarly Hutchings and Archer (2001) found that none of the non-participants they talked with mentioned means testing; they all believed that everyone has to pay fees.

The system for allocating student support is perceived by mature students as overly complex and therefore discouraging (Connor and Dewson, 2001). This is partly because of the time taken to assess loans and fees, which poses a particular problem for mature students who often apply late in the application cycle. At the beginning of the academic year, many mature students still had no idea what their income would be, or how they would make ends meet (Archer *et al.*, forthcoming).

A second factor in this complexity is the number of different agencies and forms involved: the LEA, the Student Loan Company and the HE Institution. Students are often asked for the same information several times over. Forms and information leaflets have been identified as complex and off-putting (one mature student described the DfEE leaflet as 'video manual language'). A further complication is the impact of student funding on benefits. The loss of benefits is perceived as unfair by mature entrants, and had not been anticipated (Archer *et al.*, forthcoming).

While the most recent policy changes (Access Bursaries and child-care grants) are clearly positive, it is difficult for potential applicants to keep themselves informed when support arrangements have changed each year since 1997. Inevitably many are making plans on the basis of out-dated and inaccurate information.

The financial issues facing part-time students were rather different. Davies *et al.* (2002) report that the majority of part-time students claimed that the need to pay fees had obliged them to study part-time or had delayed their entry. Potential entrants lack clear information about the financial arrangements for part-time students and the recent changes to these. However, Callender and Kemp (2000) report that while all students had limited awareness of sources of support such as bursaries, money from charitable foundations, career development loans, money from students' employers, tax relief, etc., those part-time students who were short of money were more likely to have explored such sources than were full-time students, and nearly a quarter of part-time students obtained some funding from such sources. The most important among these sources for part-time students were their employers. One in five obtained help towards their study costs. However, those most likely to be receiving such

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<sup>37</sup> This study explored perceptions of HE held by young people in June of Year 12 and again in March of year 13. In April 1995, 90 schools/colleges participated in the first part of the research. In March, 160 took part. In total the research is based on responses from 1, 479 17 and 18 year olds, 624 in year 12 and 855 in year 13. Questionnaires were completed in supervised classroom situations with no access to handbooks etc to look up the answers and to prevent conferring/copying. Pupils had to be <19 years, permanent UK residents studying for A/AS levels, BTEC National or GNVQ advanced and intending to apply for FT entry to HE, or had already applied.

help were those in better paid jobs. Callender and Kemp also report that three times as many part-time as full-time students experienced difficulties in paying their fees, and that the nature of financial problems experienced by part-timers was particularly severe.

#### **Other policies that might make HE more accessible to mature people**

One of the main strategies to make HE accessible and attractive to a wider range of the population is to introduce different types of courses. One such initiative that is proving attractive to mature applicants is the introduction of foundation degrees. These are designed to make Higher Education more affordable, accessible and appealing to a wider range of students, and a graduate with a foundation degree is expected to be immediately attractive to employers. The foundation degree Support team report that 90% of part-time foundation degree students are aged 25 and over. Many of those on foundation degrees enter via non-academic routes; as we have demonstrated earlier, only a minority of mature entrants to HE come with standard A-level qualifications. Retention during the first term on the degree has proved high (95%) suggesting that these degrees are meeting participants' needs and expectations.

#### **Policy/ Action Implications**

- There is a need to make information about student financial support systems more widely known among potential applicants, and particularly those who are not currently in education.
- This would be greatly helped by the introduction of a single system for allocating financial support, in which applicants would only need to provide the information about their financial situation once and would only need to deal with one body. An effective computerised system would allow the information to be shared between all the agencies that needed it.
- Such a programme could also be used to enable applicants and potential applicants to obtain earlier and more realistic estimates of their predicted income as students.

There are a number of encouraging indications that these issues are being addressed. A review of student support was announced in autumn 2001. This should help to address some of the issues highlighted above. It aims to simplify the system and ensure those in financial need receive the support that they require. At the time of writing the outcomes are not published. In addition a modernisation programme is in progress. Colleagues at the DfES inform us that this involves a single system which, when implemented, will allow those who are involved in administration of student support to have access to information held on individual students. This will reduce the need for students to provide information more than once and to several different bodies. The eventual aim is to join with other agencies to reduce further the amount of information students are required to provide. A rationalisation of application forms should further reduce the amount of data students must supply, as should the business process changes, which are being piloted this year. Students will be offered a choice of how to find out about and apply for support. This will include on-line application forms.

## Conclusions and Recommendations

Mature students will necessarily play an important part in the initiative to increase participation in Higher Education amongst 18-30 year olds towards 50%. While it is hoped that improved attainment and progression in secondary schools will achieve much of the increase in participation, mature participation is essential to complement this if the 50% target is to be achieved. The focus of this report is mature people with the potential to enter higher education for the first time (not mature students undertaking a second undergraduate level course). It is about these potential students, who would be enrolling to complete a first undergraduate level qualification, that the following conclusions and recommendations are concerned.

The problems with increasing the numbers of mature students without previous experience of higher education can be grouped into three broad areas:

- They are concentrated in a particular set of socio-economic groups, which have a tradition of not entering higher education. Many members of this group feel that their identity will be changed in some way if they follow a course of higher education, and many feel threatened by this. Very broadly speaking, those whom it is necessary to attract into HE are not inclined to consider what is on offer, or to want to accept the offer.
- They have already entered adulthood, and have often acquired a range of adult responsibilities and commitments that they feel that they cannot easily sustain if they become students. They perceive the financial support systems that do exist as being complex in organisation, and parsimonious in their benefits. Those whom it is necessary to attract into HE consider that they, and those for whom they feel responsible, will be unduly financially penalised if they enter higher education.
- Many of them have failed in their educational experiences in the past. Most do not have the 'conventional' A-level entry qualifications. They have experienced educational failure, and expect not to successfully complete educational courses. They assume that higher education study will be similar to their school experiences, in content, delivery and in their chances of success. Those whom it is necessary to attract into HE feel that they will not be able to successfully complete a higher education course.

In consequence, for many potential mature students higher education is seen as a high-risk activity. They will be starting something that they feel will change them in ways that they do not necessarily want to be changed, and they will be alienated from their roots; they will be unable to continue to support themselves and their dependants at the level they have become used to; and they feel that they will not be successful in educational studies.

This is not necessarily an unrealistic assessment on their part. Mature students are more likely not to complete, as are students without conventional A-level entry qualifications who principally enter after the age of 21.

These risks for the student must be balanced by some robust and authoritative assurances, backed by policy initiatives, that the risks will be minimised.

Complementary to this student perspective must be added the institutional risk for higher education institutions. Taking on mature students, possibly with less high entry qualifications, is potentially damaging for institutions. It is more likely that these students will not successfully complete their courses. Institutions are penalised, financially and in league tables, for such performance. Institutions are also judged by their ability to maintain high levels of entry qualifications. For a higher educational institution to take on more mature students is a high-risk strategy.



Any policy to increase mature student numbers must therefore be designed to demonstrably minimise these risks. Although these risks have been separated for the purposes of analysis, they appear to be seen by potential students as closely linked, and it is therefore important that all of the risks are addressed together in a coherent manner, and not tackled piecemeal.

Five key complementary policy areas are suggested.

### **1 Target specific groups of mature students**

We have identified where there are particularly large or significant groups of potential students, by age (23 – 26), socio-economic group, gender and ethnicity. Clearly, in addition to simply raising the numbers of younger people entering higher education, there will be a policy of social inclusion, where participation in higher education is seen as an aspiration and ambition open to all, and not simply as a matter of routine social behaviour by particular social categories. Nevertheless, within such a policy it is possible to identify groups more likely – at this stage - to be recruited than others.

### **2 Encourage HEIs to provide the courses sought by mature students: in subjects that are perceived to have relevance to their lives and careers, that are organised in ways that allow them to continue to support their families, that are not seen to threaten their identity**

The courses and qualifications that are offered for mature students need to carefully address these students' needs. Unlike the 18 year old student, for many of whom the decision to enter higher education is a taken-for-granted way of life, these students will be making careful decisions and assessing risks that are based on making a substantial change to their life course to date. Institutions will need to be mindful of this if they are to successfully attract such students. Courses will need to be in subjects and disciplines that students feel are related to their career and life ambitions, since these seem to be the motivators for mature enrolment. Awards will need to be at levels that seem useful to these students. Courses and attendance patterns will need to be organised in ways that accommodate mature people with family commitments: this may involve the provision of teaching and facilities over weekends, in the evenings, in conventional academic vacations, and the provision of adequate and inexpensive crèche facilities. It may involve the provision or loan of IT facilities where students cannot afford these. Institutions will need to develop processes that recognise the contingencies of family life, and be flexible in allowing mature students to attend to these without feeling threatened.

### **3. Encourage HEIs to broaden their entry requirements for mature people with the ability to benefit from higher education whilst minimising any additional period of study that might be required.**

Institutions need to develop methods of assessing the potential of people who have minimal or no conventional qualifications, as well as those who have achieved level 3 and 2 qualifications. For example, by paying attention to the skills people demonstrate in the workplace. Institutions will have to consider how and what kinds of support are appropriate to ensure that students admitted by different routes rapidly achieve the necessary study skills to succeed, preferably without increasing the total study period by a large amount of time (for example, through intensive summer schools). These potential students do not have periods of their lives to spare. Such induction needs as far as possible to be seamless with the substantive study, so that it is not perceived as yet another hurdle to be overcome. Many of these potential students have experiences of hitherto falling at all the educational hurdles they have encountered.

### **4. Act as far as possible to ensure success and minimise risk for mature non-standard entrants: Provide clear and simple financial support mechanisms for mature students seeking higher education qualifications**

One of the major reasons that mature students do not embark on higher education courses is because they feel that the financial cost of study is too great. They have far more complex financial lives than young students – and they are far more aware of the costs, risks and potential dis-benefits of forgoing current actual income for hypothetically increased earnings in the future. Current financial support systems are seen as overly complex, operating in an erratic manner, and not providing sufficient support, particularly for their dependants. Relieving mature students from their current high levels of financial stress would address the issue of students dropping out of courses for financial reasons, and encourage potential mature students currently not enrolling because of financial concerns. Much progress has already been made in recent years with increased support for mature students (childcare grant, travel books & equipment grant, etc). The DfES report that the recent increases in full-time participation by matures suggests that these targeted sources of help are already having an impact. Moreover, the review of student finance will again be looking at ways to ensure those who have the potential to benefit from HE are not prevented from participating because of financial constraints.

**5. Act as far as possible to ensure success and minimise risk for mature non-standard entrants: Provide coherent targeted academic support systems within HEIs to support mature students with non-standard entry qualifications**

Linked to all the forgoing is the necessity to ensure that potential mature students know that they will be fully supported to achieve academic success. If mature students, particularly those without the conventional academic entry qualifications, feel that starting a higher education course is a high-risk strategy, then they are unlikely to start. The evidence is that it *is* a high-risk strategy particularly for those with non-traditional entry qualifications. Institutions need therefore to be resourced with additional targeted funds to specifically address the learning and support needs for students whom they recruit with non-traditional qualifications. Institutions need to feel confident that the risk that they take in enrolling such students – who will make additional and substantial demands for academic support, and whose very presence will jeopardise the institution's standing in league tables – will be minimised by resources that will ensure that these students will successfully complete their courses. Institutions with high non-completion records are financially penalised: it currently makes little economic sense for them to recruit additional numbers of students who are likely to increase that penalty.

The widespread knowledge of successful completion of higher education courses is an essential prerequisite for increasing mature student numbers. It is crucial that potential mature students see that enrolling in higher education is not a high-risk strategy. It is also important that institutions see that they are not putting themselves at risk by recruiting such students.

## **Selected Publications from the UNL Social Class & Widening Participation in HE Project**

- Archer, L. (2001) Social Class and Access to Higher Education. Appendix 10, in Education and Employment Select Committee Sixth Report, *Higher Education: Student Retention* pp.191-197 (London, The Stationary Office)
- Archer, L. & Hutchings, M. (2000) 'Bettering Yourself'? Discourses of Risk, Cost and Benefit in Ethnically Diverse, Young Working Class Non-Participants' Constructions of HE. *British Journal of Sociology of Education*, 21(4) 555-574
- Archer, L., Leathwood, C. & Hutchings, M. (2001) Engaging with commonality and difference: Theoretical tensions in the analysis of working class women's educational discourses *International Studies in Sociology of Education*, 11(1) 41-62
- Archer, L., Hutchings, M., & Ross, A. (forthcoming) *Higher Education and Social Class: Issues of exclusion and inclusion*. FalmerRoutledge.
- Archer, L., Pratt, S. & Phillips, D. (2001) Working class men's constructions of masculinity and negotiations of (non)participation in higher education. *Gender and Education*, Vol. 13 No.4, 431-449
- Collier, T , Gilchrist, R and Phillips, D (2002). Who plans to go to university? Statistical modelling of potential working class participants. *Educational Research and Evaluation*. To appear.
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