

```

1 .
2 . use "psu_data.dta", clear
3 .
4 . keep if qqt1 == 1
   (366,723 observations deleted)
5 . keep if psu475t1<46 & psu475t1>=46
   (66,419 observations deleted)
6 .
7 . regress enrol1 m475t1 psu475t1 m475psut1, robust

```

enrol	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
m475t1	.198555	.0080278	24.73	0.000	.1828203	.2142897
psu475t1	.0013164	.0001661	7.92	0.000	.0009908	.001642
m475psu1	.0027344	.0003037	9.00	0.000	.0021391	.0033297
_cons	.1438551	.0045917	31.33	0.000	.1348553	.152855

```
8 .
9 .
10. regress everelig1 m475t1 psu475t1 m475psut1, robust
```

	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
m475t1	.8780681	.0041612	211.01	0.000	.869912	.8862241
psu475t1	.0016461	.0001447	11.38	0.000	.0013625	.0019297
m475psut1	-.0016461	.0001447	-11.38	0.000	-.0019297	-.0013625
_cons	.1219319	.0041612	29.30	0.000	.1137759	.130088

```
11.
12.
13. ivreg everenroll1 (everelig1 = m475t1) psu475t1 m475psut1, robust
```

Instrumental variables (2SLS) regression	Number of obs	=	<b>42,023</b>
	F(3, 42019)	=	<b>1940.36</b>
	Prob > F	=	<b>0.0000</b>
	R-squared	=	<b>0.1456</b>
	Root MSE	=	<b>.44936</b>

everenroll1	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
everelig1	.182199	.0100394	18.15	0.000	.1625216	.2018764
psu475t1	.002128	.0002188	9.73	0.000	.0016992	.0025568
m475psut1	.0023699	.0003276	7.23	0.000	.0017278	.003012
_cons	.2563205	.0065318	39.24	0.000	.243518	.2691229

Instrumented: everelig1  
 Instruments: psu475t1 m475psut1  
 m475t1

```

14.
15.
16.
17.
18. use "psu_figure_data.dta", clear

19.
20. gen x1=psu^3 if dd==1
   (140 missing values generated)

21. replace x1=0 if dd==0
   (140 real changes made)

22.
23. gen x2=psu^3 if dd==0
   (171 missing values generated)

24. replace x2=0 if dd==1
   (171 real changes made)

25.
26. reg enrollt1 dd x1 x2, robust

```

Linear regression	Number of obs	=	311
	<u>F(1, 307)</u>	=	.
	Prob > F	=	.
	R-squared	=	0.9682
	Root MSE	=	.07149

enrollt1	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
dd	.4025818	.021948	18.34	0.000	.3593943	.4457692
x1	1.35e-09	6.59e-11	20.49	0.000	1.22e-09	1.48e-09
x2	1.07e-09	6.82e-11	15.66	0.000	9.34e-10	1.20e-09
_cons	.0139964	.0045083	3.10	0.002	.0051254	.0228675

```

27. predict eligible if dd==1
   (option xb assumed; fitted values)
   (140 missing values generated)

28. predict not_eligible if dd==0
   (option xb assumed; fitted values)
   (171 missing values generated)

```

```
29.
30. scatter enroltl psu, scheme(fondow) xline(475, lw(thin)) xline(550, lw(thin)) ms(oh)
> || line not_eligible eligible psu, lp(solid solid ) xtitle(PSU score in {it
> :t=1}) ytitle(College enrollment) legend(off) title("Immediate Enrollment Quintile 1
> ")
(note: scheme fondow not found, using s2color)

31.
32.
33.
34.
35. log close
    name: <unnamed>
    log: C:\Users\Lara\Documents\Econo2\hw2\hw2_log.smcl
    log type: smcl
    closed on: 3 Apr 2020, 01:50:44
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