



CALIFORNIA STATE UNIVERSITY
FULLERTON[™]

Common Data Set Preparation using R

Nov 9, 2017

CAIR Conference

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Cal State Fullerton at a Glance

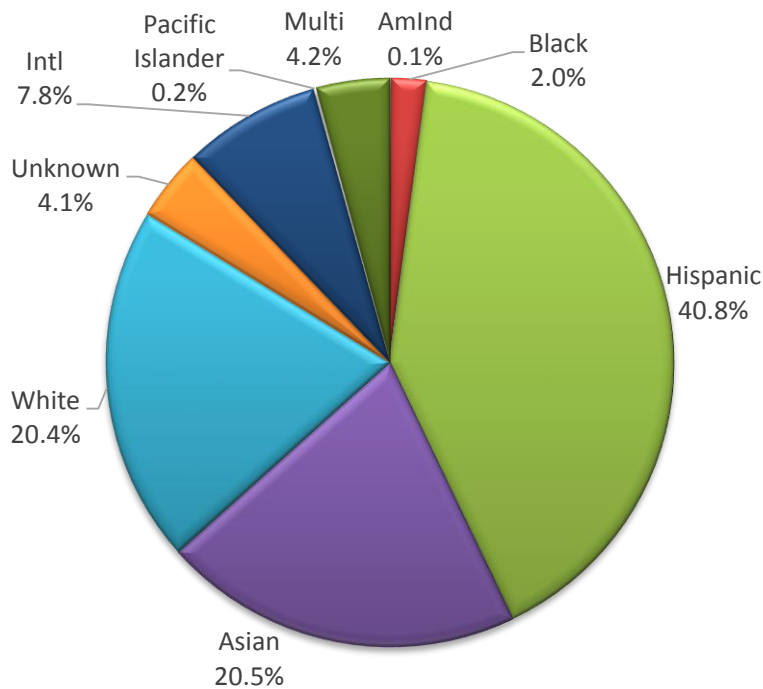
Fall 2017

- ▶ **40,439 Students Enrolled/largest in CSU**
- ▶ **34,800 Undergraduate Students**
- ▶ **4,437 First-Time Freshmen**
- ▶ **3,755 New Transfers**
- ▶ **45% UG Students - Pell Recipients**
- ▶ **58% UG Students 1st gen college students**

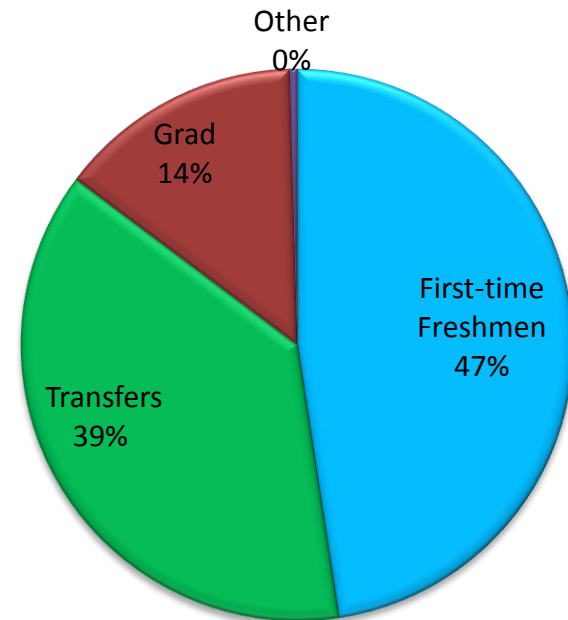
Cal State Fullerton at a Glance

Fall 2017

Ethnic Composition



Entering Characteristics Composition



Cal State Fullerton at a Glance

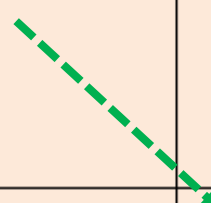
Fall 2017

- ▶ **Average High School GPA of First-Time Freshmen : 3.63**
- ▶ **Average SAT of First-Time Freshmen: 1101**
- ▶ **Average Transfer GPA: 3.28**
- ▶ **Average Age of Undergraduates: 22**

CALIFORNIA STATE UNIVERSITY, FULLERTON
 INSTITUTIONAL RESEARCH AND ANALYTICAL STUDIES
 TRENDS IN DEGREES AWARDED BY LEVEL: 1959 TO PRESENT

YEAR	BACHELOR'S DEGREES	MASTER'S DEGREES	DOCTORAL DEGREES	TOTAL DEGREES
2016-2017	8450	2038	42	10530
2015-2016	8397	1868	47	10312
2014-2015	7725	1667	62	9454
2013-2014	7451	1476	59	8986
2012-2013	7472	1566	26	9064
2011-2012	6724	1563	19	8306
2010-2011	6875	1562	11	8448
2009-2010	6481	1394	7	7882
2008-2009	6580	1421		8001

1969-1970	1750	419		2169
1968-1969	1465	297		1762
1967-1968	1182	223		1405
1966-1967	860	166		1026
1965-1966	652	124		776
1964-1965	517	47		564
1963-1964	401	8		409
1962-1963	301	0		301
1961-1962	220	0		220
1960-1961	65	0		65
TOTALS:	223,610	46,932	273	270,815



Common Data Set Initiative

- Collaborative Efforts between Publishers and the educational community.
- **Institutional Reporting**
 - Chancellor's Office
 - Federal Reporting
 - Surveys : External Organizations
 - US News & WR, College Board, NSF/GSS,
 - CGS/GRE, Peterson, Barren's, Wintergreen, Princeton Review

About Presenters – Alexis



Ph.D. Sociology

- Statistician/Project Coordinator
- Evaluation Analyst



Data & Stat Consultant

- Research Analyst



CALIFORNIA STATE UNIVERSITY
FULLERTON[™]



<http://asfuruichi.wixsite.com/furuichi>



Evolution of CDS Preparation at CSUF

- SPSS syntax => SPSS output => Excel
- SPSS macro => R tables => LaTeX => PDF output
- SPSS macro => R tables => PDF output
- R codes => R tables => PDF output

R packages

Knitr

ReportRs

SPSS Syntax

```
****C11 file.
dataset activate speronly.
select if ~missing(hsgpa).
execute.
recode hsgpa (3.75 thru highest = 1)(3.50 thru 3.74= 2)(3.25 thru 3.49 =3)
      (3.00 thru 3.24 = 4)(2.50 thru 2.99 = 5)(2.0 thru 2.49 = 6)(1.00 thru 1.99 = 7)(0 thru 0.99 = 8) into hsrank.
execute.
value labels hsrank 1 '3.75 thru highest' 2 '3.50 thru 3.74' 3 '3.25 thru 3.49' 4 '3.00 thru 3.24'
      5 '2.50 thru 2.99' 6 '2.0 thru 2.49' 7 '1.00 thru 1.99' 8 '0.00 thru 0.99'.

dataset declare C11.
aggregate /outfile = C11 /break = hsrank /freq = nu.

dataset activate C11.
save translate /outfile = 'C11.csv' /type = csv /fieldnames /cells = labels /replace.
dataset close C11.

****C12 file.
dataset activate speronly.
dataset declare C12.
aggregate /outfile = C12 /avgGPA = mean(hsgpa).

add files file = C12 /keep = avgGPA.
```

SPSS Output

*Output1 [Document1] - IBM SPSS Statistics Viewer

File Edit View Data Transform Insert Format Analyze Direct Marketing Graphs Utilities Extensions Window Help

Output

- Log
- Crosstabs
 - Title
 - Notes
 - Active Dataset
 - Case Processing
 - IRsex Institution-r
- Log
- Crosstabs
 - Title
 - Notes
 - Case Processing
 - IRRace Institution-

IRRace Institution-reported: Race or ethnicity * IRsex Institution-reported: Sex	1641	93.0%	124	7.0%	1765	100.0%
--	------	-------	-----	------	------	--------

IRRace Institution-reported: Race or ethnicity * IRsex Institution-reported: Sex Crosstabulation

Count

IRRace Institution-reported: Race or ethnicity	IRsex Institution-reported: Sex		Total
	0 Female	1 Male	
1 American Indian or Alaska Native	2	0	2
2 Asian	164	53	217
3 Black or African American	34	5	39
4 Hispanic or Latino	571	235	806
5 Native Hawaiian or Other Pacific Islander	1	0	1
6 White	180	97	277
8 Foreign or Nonresident alien	68	103	171
9 Two or more races/ethnicities	64	24	88
10 Unknown	30	10	40
Total	1114	527	1641

CDS Excel Template

CDS_2015-2016 - Excel

Yusuke Kuroki

Clipboard: Cut, Copy, Paste, Format Painter

Font: Arial, 10, Bold, Italic, Underline, Color, Background Color

Alignment: Wrap Text, Merge & Center

Number: Number, Currency, Percentage, Decimals

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Clear, Sort & Find & Filter, Select

Formula Bar: =SUM(D10:D11)

Worksheet: CDS-B

Page: 1 OF 3

8:11 AM 11/9/2017

B2 Enrollment by Racial/Ethnic Category. Provide numbers of undergraduate students for each of the following categories as of the institution's official fall reporting date or as of October 15, 2015. Include international students only in the category "Nonresident aliens." Complete the "Total Undergraduates" column only if you cannot provide data for the first two columns. Report as your institution reports to IPEDS: persons who are Hispanic should be reported only on the Hispanic line, not under any race, and persons who are non-Hispanic multi-racial should be reported only under "Two or more races."

	Degree-Seeking First-Time First Year	Degree-Seeking Undergraduates (include first-time first-year)	Total Undergraduates (both degree- and non-degree-seeking)
B2 Nonresident aliens	284	1857	1917
B2 Hispanic/Latino	2015	13232	13254
B2 Black or African American, non-Hispanic	99	640	643
B2 White, non-Hispanic	704	7299	7333
B2 American Indian or Alaska Native, non-Hispanic	7	42	42
B2 Asian, non-Hispanic	979	7181	7185
B2 Native Hawaiian or other Pacific Islander, non-Hispanic	7	55	55
B2 Two or more races, non-Hispanic	201	1468	1472
B2 Race and/or ethnicity unknown	105	1235	1243
B2 TOTAL	4,401	33,009	33,144

SPSS Macro

```
5  define !prepCDS (dig2Yr = !cmdend)
6  cd !quote(!concat('M:\sfuruichi\surveys\CDS\20',!dig2Yr,'-2018\output')).
7
159 ****B1 file.
160 match files file = !quote(!concat('M:\iras\sper\sper',!dig2Yr,'4.sav')) /in = sperfile
161 /table = !quote(!concat('M:\IRAS\Historical Data\ERSR094',!dig2Yr,'4.sav')) /in= racefile
162 /by ssn
163 /keep = cwid ssn sex age eth eth4mr eth1 eth2 eth3 eth4 eth5 multrace ipedsethnic rescode enstat le
164 degobj stustan acadplan1 units categor5 yrtrm1 race1 to race5 fpt.
165 dataset name sperrace.
166 execute.
167
168 dataset activate sperrace.
169 if (eth4mr = 4) and (eth = '6') Race5 = 624.
170 if (eth4mr = 4) and (eth = 'H') Race5 = 601
171
587 dataset activate I3.
588 save translate /type = csv /outfile = 'I3.csv'.
589 dataset close B1.
590
591 dataset close all.
592
593 !enddefine.
```

IBM SPSS Statistics Processor is ready

Unicode:OFF In 593 Col 11

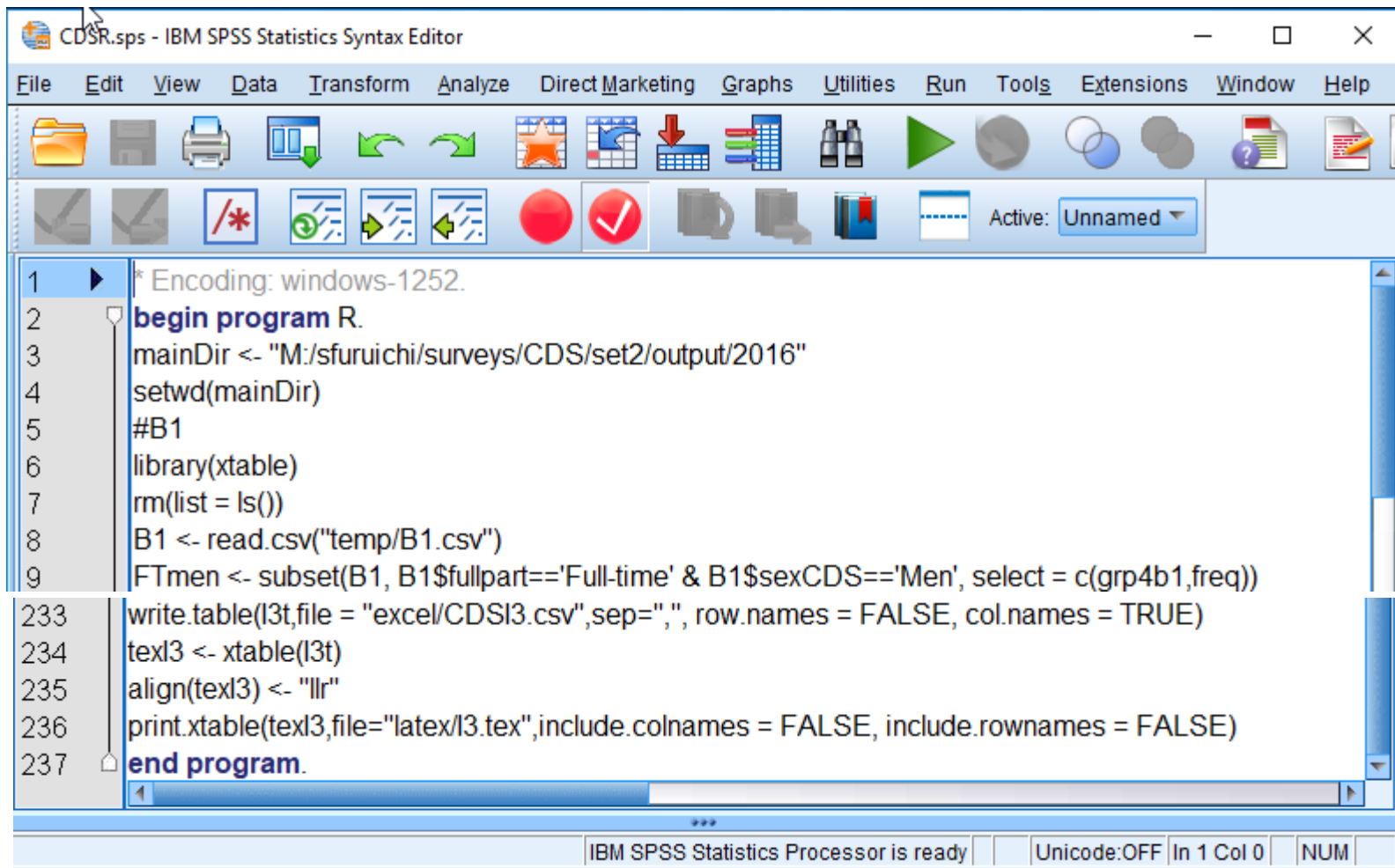
NUM

Running SPSS Macro

```
16      I
17      ***create base files.
18      insert file = 'M:\sfuruichi\surveys\CDS\2017-2018\CDS.sps'.
19      !prepCDS dig2Yr = 17.
20
21      insert file = 'M:\sfuruichi\surveys\CDS\set2\program\CDSsecJ.sps'.
22      !prepCDSsecJ dig2Yr = 16.
23
24      insert file = 'M:\sfuruichi\surveys\CDS\set2\program\CDSsecF.sps'.
25      !prepCDSsecF dig2Yr = 16.
26
27      dataset close all.
28
29      ***create outputs.
30      insert file = 'M:\sfuruichi\surveys\CDS\set2\program\CDSR.sps'.
31      insert file = 'M:\sfuruichi\surveys\CDS\set2\program\CDSRsecJ.sps'.
32      insert file = 'M:\sfuruichi\surveys\CDS\set2\program\CDSRsecF.sps'.
33
```

R (3.3.3) in SPSS (v.24)

Need to install R Essentials for SPSS



The screenshot shows the IBM SPSS Statistics Syntax Editor window. The title bar reads "CDSR.sps - IBM SPSS Statistics Syntax Editor". The menu bar includes File, Edit, View, Data, Transform, Analyze, Direct Marketing, Graphs, Utilities, Run, Tools, Extensions, Window, and Help. The toolbar contains various icons for file operations, editing, and running syntax. The main text area contains the following R code:

```
1 * Encoding: windows-1252.
2 begin program R.
3 mainDir <- "M:/sfuruichi/surveys/CDS/set2/output/2016"
4 setwd(mainDir)
5 #B1
6 library(xtable)
7 rm(list = ls())
8 B1 <- read.csv("temp/B1.csv")
9 FTmen <- subset(B1, B1$fullpart=='Full-time' & B1$sexCDS=='Men', select = c(grp4b1,freq))
233 write.table(l3t,file = "excel/CDSI3.csv",sep=";", row.names = FALSE, col.names = TRUE)
234 texl3 <- xtable(l3t)
235 align(texl3) <- "lR"
236 print.xtable(texl3,file="latex/l3.tex",include.colnames = FALSE, include.rownames = FALSE)
237 end program.
```

The status bar at the bottom indicates "IBM SPSS Statistics Processor is ready", "Unicode:OFF", "In 1 Col 0", and "NUM".

LaTeX Codes

```
\center{\textbf{B. ENROLLMENT AND PERSISTENCE}} \\
\raggedright{}
\begin{doublespace}
\textbf{B1. Institutional Enrollment - Men and Women} \\
\end{doublespace}
Provide numbers of students for each of the following categories as of the inst
students formerly designated as “first professional” in the graduate cells.\\
\begin{spacing}{1.5}
\end{spacing}
\begin{table}[!htbp]
\centering
\input{\filepath/B1.tex} \\
\end{table}
\begin{spacing}{1.5}
\end{spacing}
\begin{tabular}{lr}
Total all undergraduates: & \underline{\input{\filepath/B1TotUG.txt}} \\
Total all graduate: & \underline{\input{\filepath/B1TotG.txt}} \\
GRAND TOTAL ALL STUDENTS: & \underline{\input{\filepath/B1GrandTot.txt}} \\
\end{tabular} \\
```

LaTeX Preamble

M:\sfuruichi\surveys\CDS\2015-2016\set1\latex\report.tex - TeXstudio

File Edit Idefix Tools LaTeX Math Wizards Bibliography Macros View Options Help

Structure

- report.tex
 - filepath/B1.tex
 - filepath/B1TotUG.txt
 - filepath/B1TotG.txt
 - filepath/B1GrandTot.txt
 - filepath/B2.tex
 - filepath/B3.tex
 - filepath/B4B11later.tex
 - filepath/B4B11earlier.tex
 - filepath/B22.txt
 - filepath/C1.tex
 - filepath/C9a.tex
 - filepath/C9b.tex
 - filepath/C9cSAT.tex
 - filepath/C9cACT.tex
 - filepath/C10.tex
 - filepath/C11.tex
 - filepath/C12.txt
 - filepath/D2.tex
 - filepath/F1.tex
 - filepath/I3.tex
 - filepath/J1.tex

```
\documentclass[10pt]{article}
%\usepackage{fullpage}
\usepackage[top=1in,bottom=1.25in,left=1.25in,right=1in]{geometry}
\usepackage{setspace}
\usepackage{wasysym} %for check boxes
\usepackage{array}
\newcolumntype{L}[1]{>\raggedright\let\newline\\\arraybackslash\hspace{0pt}}m{#1}}
\newcolumntype{C}[1]{>\centering\let\newline\\\arraybackslash\hspace{0pt}}m{#1}}
\newcolumntype{R}[1]{>\raggedleft\let\newline\\\arraybackslash\hspace{0pt}}m{#1}}
\usepackage{xcolor,colorctl}
\definecolor{Gray}{gray}{0.85}
\definecolor{LightCyan}{rgb}{0.88,1,1}

\usepackage{fancyhdr}
\pagestyle{fancy}
\head{Common Data Set \PrevYear - \the\year}

\newcommand{\filepath}{../output/\the\year/latex}
\newcommand{\NextYear}{\advance\year by 1 \the\year\advance\year by -1}
\newcommand{\PrevYear}{\advance\year by -1 \the\year\advance\year by 1}
\newcommand{\TwoYearsAgo}{\advance\year by -2 \the\year\advance\year by 2}
\newcommand{\SixYearsAgo}{\advance\year by -6 \the\year\advance\year by 6}
\newcommand{\SevenYearsAgo}{\advance\year by -7 \the\year\advance\year by 7}
\newcommand{\TwoYearsLater}{\advance\year by 2 \the\year\advance\year by -2}

%\usepackage{titlesec}
%\titleformat{\section}[\normalfont\scshape]{\thesection}{1em}

\begin{document}
\begin{spacing}{3}
\end{spacing}
\center{\textbf{A. GENERAL INFORMATION}} \\\
\raggedright{}
```


LaTeX Output

B. ENROLLMENT AND PERSISTENCE

B1. Institutional Enrollment - Men and Women

Provide numbers of students for each of the following categories as of the institutions official fall reporting date or as of October 15, 2016. Note: Report students formerly designated as first professional in the graduate cells.

	FTmen	FTwomen	PTmen	PTwomen
First-time Fresh	1873	2414	63	51
Other Fresh	853	924	71	63
Other Deg	9160	11812	2724	3001
Total Deg	11886	15150	2858	3115
Other UG	28	41	18	48
Total UG	11914	15191	2876	3163
FT Grad	428	776	419	550
Other Grad	705	843	991	1080
Other cred			5	7
Total Grad	1133	1619	1415	1637

Total all undergraduates: 33144
Total all graduate: 5804
GRAND TOTAL ALL STUDENTS: 38948

CDS Output Components

- Headers
- Texts
- Tables
- In-text numbers

Headers

Document Title

B. ENROLLMENT AND PERSISTENCE
Institutional Effectiveness
Fall 2016

Page Header

Common Data Set 2016-2017

Headings

Graduation Rates
For Bachelor's Programs
Fall 2009 Cohort

The image shows a screenshot of the RStudio interface. The main window displays an R Markdown document named 'CDS_B.Rmd'. The document content is as follows:

```
1 | ---
2 | title: "B. ENROLLMENT AND PERSISTENCE"
3 | author: "Institutional Effectiveness"
4 | date: "Fall 2016"
5 | output:
6 |   html_document: default
7 |   pdf_document: default
8 |   word_document: default
9 | header-includes:
10 | - \usepackage{fancyhdr}
11 | - \pagestyle{fancy}
12 | - \fancyhf{}
13 | - \chead{Common Data Set 2016-2017}
14 | ---
15 |
16 |
17 |
18 |
19 |
20 |
21 |
22 |
23 |
24 |
25 |
26 |
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73 |
74 |
75 |
76 |
77 |
78 |
79 |
80 |
81 |
82 |
83 |
84 |
85 |
86 |
87 |
88 | # Graduation Rates
89 | ## For Bachelor's Programs
90 |
91 | ### Fall 2009 cohort
92 |
```

Document Title

Page Header

Headings

B1. Institutional Enrollment - Men and Women

Table

X.	FTmen	FTwomen	PTmen	PTwomen
First-time Fresh	1764	2510	68	84
Other Fresh	759	879	80	60
Other Deg	9670	12343	2941	3258
Total Deg	12193	15732	3089	3402
Other UG	20	49	30	61
Total UG	12213	15781	3119	3463
FT Grad	353	792	382	527
Other Grad	601	867	956	1177
Other cred	NA	NA	1	3
Total Grad	954	1659	1339	1707

Total all undergraduates: 34576.

Total all graduate: 5659.

GRAND TOTAL ALL STUDENTS: 40235.

In-text numbers

Texts

```
14
15
16- ## B1. Institutional Enrollment - Men and women
17
18- ```{r echo=FALSE}
19 B1 <- read.csv("../output/B1.csv")
20 FTmen <- subset(B1, B1$fullpart=='Full-time' & B1$sexCDS=='Men', select = c(grp4b1,freq))
21 FTwom <- subset(B1, B1$fullpart=='Full-time' & B1$sexCDS=='women', select = c(grp4b1,freq))
22 FT <- merge(FTmen,FTwom,by='grp4b1')
23 PTmen <- subset(B1, B1$fullpart=='Part-time' & B1$sexCDS=='Men', select = c(grp4b1,freq))
24 PTwom <- subset(B1, B1$fullpart=='Part-time' & B1$sexCDS=='women', select = c(grp4b1,freq))
25 PT <- merge(PTmen,PTwom,by='grp4b1')
26 tab <- merge(FT,PT,by='grp4b1', all=TRUE)
27 sec1 <- tab[1:3,]
28 sec1wt <- rbind(sec1,c(3.5,colSums(sec1[-1])))
29 sec2 <- tab[4,]
30 sec2b <- rbind(sec1wt[4,],sec2)
31 sec2wt <- rbind(sec2b,c(4.5,colSums(sec2b[-1])))
32 sec2wtb <- subset(sec2wt,sec2wt$grp4b1>=4.0)
33 sec3 <- tab[5:7,]
34 sec3wt <- rbind(sec3,c(7.5,colSums(sec3[-1],na.rm = TRUE)))
35 revB1 <- rbind(sec1wt,sec2wtb,sec3wt)
36 #revB1[1,] <- 999
37 totalUG <- sum(revB1[6,2:5])
38 totalG <- sum(revB1[10,2:5])
39 grandTotal <- totalUG + totalG
40 #grandTotal <- NULL
41 revB1b <- cbind(c("First-time Fresh","other Fresh","other Deg","Total Deg","Other UG","Total UG","FT
Grad","Other Grad","Other Grad","Total Grad"),revB1)
42 colnames(revB1b) <- c("","FTmen","FTwomen","PTmen","PTwomen")
43 rownames(revB1b) <- NULL
44 library(kable)
45 kable(revB1b)
46 ```
47
48 Total all undergraduates: `r totalUG`.
49 Total all graduates: `r totalG`.
50 GRAND TOTAL ALL STUDENTS: `r grandTotal`.
51
52
```

Another Example - PPR

7. Appendices to the Self-Study

Upon request, the Office of Institutional Research and Analytical Studies will provide the data for Tables 1-9 that you will need for your review and analysis. The completed tables should be placed in the appendix, and the narrative and analyses should be woven into the self-study itself.

APPENDIX I. UNDERGRADUATE DEGREE PROGRAMS

TABLE 1. Undergraduate Program Applications, Admissions, and Enrollments

For each undergraduate degree program, a table will be provided with the number of student applications, number of students admitted, percent admitted, the number of new enrollments, and the percentage of new enrollments. Percentage of students enrolled is the number of students enrolled divided by the number of students admitted or the yield rate.

TABLE 1-A. First-time Freshmen: Program Applications, Admissions, and Enrollments

Academic Year	# Applied	# Admitted	% Admitted	# Enrolled	% Enrolled
2012-2013					
2013-2014					
2014-2015					
2015-2016					
2016-2017					

TABLE 1-B. Upper Division Transfers: Program Applications, Admissions, and Enrollments

Academic Year	# Applied	# Admitted	% Admitted	# Enrolled	% Enrolled
2012-2013					
2013-2014					
2014-2015					
2015-2016					
2016-2017					

PPR Tables Physics (BA, BS, MS)

Office of Assessment and Institutional Effectiveness

Fall 2017

APPENDIX I. UNDERGRADUATE DEGREE PROGRAMS

TABLE 1. Undergraduate Program Applications, Admissions, and Enrollments

TABLE 1-A. FIRST-TIME FRESHMEN: PROGRAM APPLICATIONS, ADMISSIONS, AND ENROLLMENTS

AY	applied	admitted	pctAdmitted	enrolled	pctEnrolled
2012-2013	95	83	87.4	16	19.3
2013-2014	132	99	75.0	12	12.1
2014-2015	109	77	70.6	8	10.4
2015-2016	121	93	76.9	17	18.3
2016-2017	158	107	67.7	14	13.1

TABLE 1-B. UPPER DIVISION TRANSFERS: PROGRAM APPLICATIONS, ADMISSIONS, AND ENROLLMENTS

AY	applied	admitted	pctAdmitted	enrolled	pctEnrolled
2012-2013	25	17	68.0	1	5.88
2013-2014	33	11	33.3	3	27.27
2014-2015	39	21	53.8	7	33.33
2015-2016	37	21	56.8	6	28.57
2016-2017	46	31	67.4	12	38.71

```

PPR-NURS.Rmd x PPR-PHYS.Rmd x
1 ---
2 title: "PPR Tables Physics (BA, BS, MS)"
3 author: "Office of Assessment and Institutional Effectiveness"
4 date: "Fall 2017"
5 output:
6   word_document:
7     reference_docx: word-styles-reference-01.docx
8 ---
9
10 # APPENDIX I. UNDERGRADUATE DEGREE PROGRAMS
11 ## TABLE 1. Undergraduate Program Applications, Admissions, and Enrollments
12 ### TABLE 1-A. First-time Freshmen: Program Applications, Admissions, and Enrollments
13
14 ```{r echo=FALSE}
15 t1Adm <- read.csv("t1AppliedAdmitted.csv")
16 t1Aenr <- read.csv("t1Aenrolled.csv")
17 t1A <- merge(t1Adm,t1Aenr,by="AY", all = TRUE)
18 t1A$pctEnrolled <- format((t1A$enrolled/t1A$admitted)*100,digits=2,nsmall=1)
19 t1A$pctAdmitted <- format((t1A$admitted/t1A$applied)*100,digits=3,nsmall=1)
20 library(knitr)
21 kable(t1A)
22 ```
23 <br>
24
25 ### TABLE 1-B. Upper Division Transfers: Program Applications, Admissions, and Enrollments
26
27 ```{r echo=FALSE}
28 t1Badm <- read.csv("t1BAppliedAdmitted.csv")
29 t1Benr <- read.csv("t1Benrolled.csv")
30 t1B <- merge(t1Badm,t1Benr,by="AY", all=TRUE)
31 t1B$pctEnrolled <- format((t1B$enrolled/t1B$admitted)*100,digits=2,nsmall=1)
32 t1B$pctAdmitted <- format((t1B$admitted/t1B$applied)*100,digits=3,nsmall=1)
33 library(knitr)
34 kable(t1B)
35 ```
36 <br>
37
38 ## TABLE 2. Undergraduate Program Enrollment in FTES
39
40 ### TABLE 2-A. Undergraduate Program Enrollment in FTES
41
42 ```{r echo=FALSE}
43 t2A <- read.csv("T2A.csv")
44 is.num <- sapply(t2A, is.numeric)
10:1 # APPENDIX I. UNDERGRADUATE DEGREE PROGRAMS R Markdown

```


Thank you!

<http://www.fullerton.edu/analyticalstudies/>

Sunny Moon: hmoon@fullerton.edu

Alexis Furuichi: sfuruichi@fullerton.edu

<http://asfuruichi.wixsite.com/furuichi>