

TEACHING AND LEARNING

Section 4: Teaching and Learning

This section includes data for class size, faculty teaching assignment, student course load, Full-time Equivalent Students, Full-time Equivalent Faculty and student-faculty ratio.

Average class sizes and student-faculty ratios are important criteria used by many published college guides for measuring the quality of teaching and learning. In particular, they are used by *US News and World Report* for its college rankings.



TABLE 12: Class Size

	Academic Year									
	2011-12		2012-13		2013-14		2014-15		2015-16	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Number of Sections (Non-supervision)¹										
Lower Division	1,521	1,284	1,531	1,318	1,522	1,395	1,622	1,412	1,777	1,511
Upper Division	1,834	1,841	1,758	1,841	1,898	1,908	1,953	1,968	2,072	2,099
Graduate	350	346	339	325	340	301	335	316	351	327
Total	3,706	3,471	3,628	3,484	3,760	3,604	3,910	3,696	4,200	3,937
Average Section Size (Non-supervision)										
Lower Division	38	38	37	37	38	37	37	38	35	36
Upper Division	35	34	36	33	35	33	34	33	33	32
Graduate	18	18	18	17	18	18	18	17	17	16
<i>Mean</i>	35	34	35	33	34	34	34	33	33	32
Number of Sections (Supervision)²										
Lower Division	94	95	107	83	78	90	81	82	89	93
Upper Division	424	490	441	474	485	481	449	494	454	512
Graduate	411	438	393	490	382	401	364	369	355	414
Total	929	1,023	941	1,047	945	972	894	945	898	1,019

¹ Includes Lecture, Laboratory, Seminar and Activity sections.

² Includes Independent Study, Field Work, Practice Teaching, Work-study, Thesis and Studio Instruction.

Note: Lower Division = Course Number 001-099; Upper Division = 100-199; Graduate = 200-699.

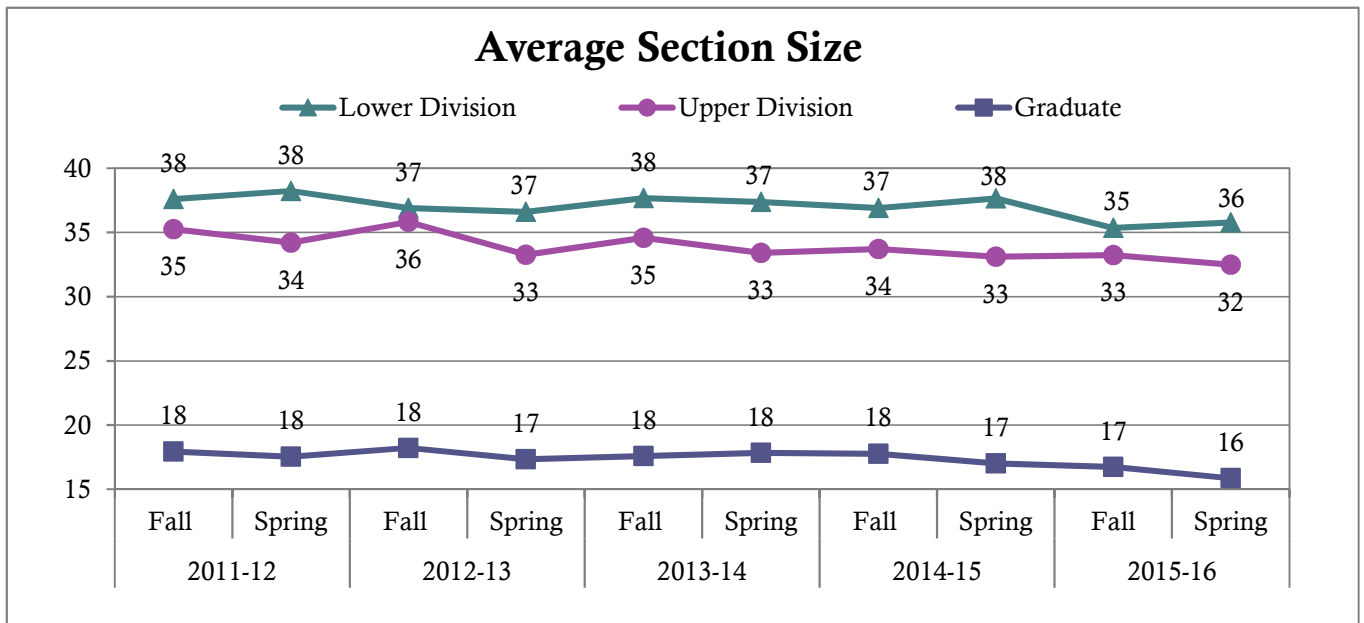


TABLE 13: Average Class Size by College and Level

	Academic Year									
	2011-12		2012-13		2013-14		2014-15		2015-16	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Arts and Letters										
Lower Division	32.8	33.9	32.4	32.2	34.0	33.7	34.4	36.6	32.8	32.8
Upper Division	32.2	30.3	32.1	29.1	32.3	31.2	32.2	31.1	30.6	28.5
Graduate	13.0	11.9	13.7	12.2	12.7	11.9	13.3	11.7	9.3	8.8
Total	31.9	31.5	31.8	30.3	32.6	31.9	32.8	33.2	31.0	29.9
Business Administration										
Lower Division	140.0	250.2	169.5	170.3	116.6	136.7	119.1	124.9	119.8	122.1
Upper Division	57.1	56.3	56.5	49.3	46.1	44.6	43.7	46.3	45.4	45.7
Graduate	23.0	23.0	24.4	24.4	25.8	27.4	26.5	21.8	23.3	17.7
Total	62.0	64.2	62.4	55.5	52.5	52.5	51.2	53.0	52.2	51.7
Education										
Lower Division	32.1	34.6	31.5	30.4	31.5	29.5	31.3	29.2	28.7	29.1
Upper Division	25.8	25.3	28.8	23.8	29.2	26.9	30.7	27.5	31.4	28.9
Graduate	19.7	18.9	20.5	19.5	18.5	20.4	16.9	17.5	18.0	16.9
Total	24.8	24.5	26.7	23.5	27.1	26.1	28.0	25.8	27.5	26.1
Engineering and Computer Science										
Lower Division	29.2	27.4	29.1	27.6	29.6	29.2	29.7	27.9	28.4	26.7
Upper Division	25.5	25.6	27.5	27.8	28.2	29.2	28.8	29.2	27.5	27.9
Graduate	17.1	15.0	14.8	12.5	16.7	15.2	19.5	19.5	16.1	14.9
Total	25.8	24.8	26.5	26.0	27.4	27.4	28.1	27.7	26.6	26.2
Health and Human Services										
Lower Division	38.7	36.1	37.4	36.5	39.2	40.4	40.6	38.9	40.2	37.7
Upper Division	34.8	34.5	35.0	33.5	32.4	32.7	31.2	32.4	32.6	33.3
Graduate	19.9	19.8	20.1	20.4	19.8	19.9	20.4	19.0	19.7	20.7
Total	33.4	32.6	33.3	32.0	31.5	31.9	30.6	31.3	31.4	32.1
Natural Sciences and Mathematics										
Lower Division	39.4	37.7	37.9	36.7	37.5	35.7	35.6	35.7	35.2	34.4
Upper Division	29.5	26.8	29.4	26.1	28.0	25.9	25.9	25.3	27.2	25.4
Graduate	14.8	12.1	15.4	12.4	14.7	11.4	15.3	12.8	14.7	11.9
Total	35.5	33.0	34.5	32.4	33.8	31.8	32.0	31.8	32.2	31.1
Social Sciences and Interdisciplinary Studies										
Lower Division	56.1	56.7	59.2	55.7	57.7	58.8	53.0	55.8	48.4	53.1
Upper Division	44.0	44.0	46.6	46.1	46.3	43.7	44.2	41.5	40.6	40.8
Graduate	13.5	14.6	12.3	11.8	12.1	13.1	12.0	11.9	11.9	11.2
Total	45.7	45.7	48.2	46.2	47.7	46.0	45.0	43.4	41.7	42.4

TABLE 13: Average Class Size by College and Level

	Academic Year									
	2011-12		2012-13		2013-14		2014-15		2015-16	
Special Programs										
Lower Division	16.0	11.7	16.1	13.3	17.7	12.1	16.8	12.2	18.1	17.8
Upper Division	18.3	22.3	16.8	21.9	16.0	25.0	18.4	20.5	23.5	27.3
Graduate										
Total	16.3	13.8	16.2	15.3	17.5	15.2	17.0	14.2	18.4	20.0
Grand Total										
Lower Division	37.6	38.2	36.9	36.6	37.7	37.4	36.9	37.6	35.4	35.8
Upper Division	35.3	34.2	35.8	33.3	34.6	33.4	33.7	33.1	33.2	32.5
Graduate	17.9	17.5	18.2	17.3	17.6	17.8	17.8	17.0	16.7	15.9
Total	34.6	34.0	34.6	33.0	34.3	33.6	33.7	33.5	32.8	32.4

¹ Includes Lecture, Laboratory, Seminar and Activity sections.

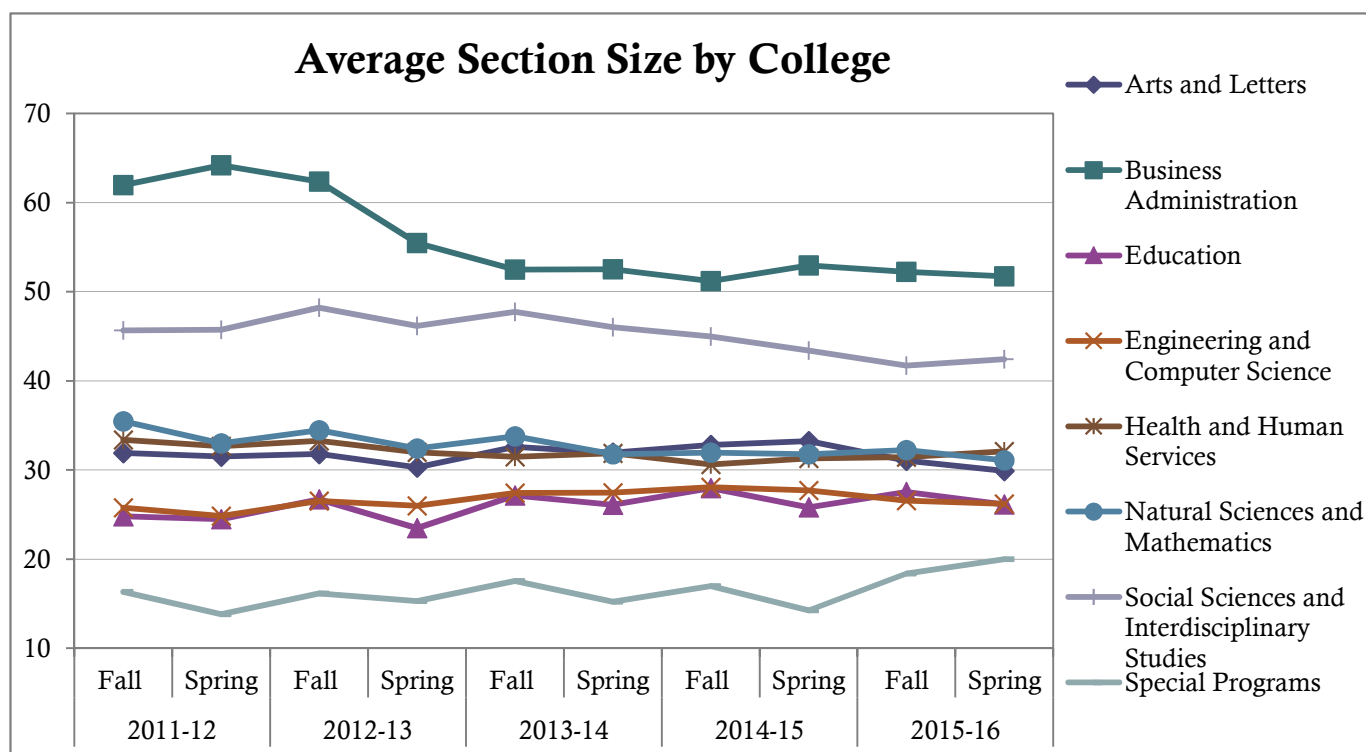


TABLE 14: FTE and Student/Faculty Ratio

	Academic Year									
	2011-12		2012-13		2013-14		2014-15		2015-16	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Student FTE (FTES)¹										
Lower Division	9,557.0	8,271.8	9,614.1	8,240.6	9,760.7	8,833.2	10,106.5	8,926.6	10,636.7	9,110.6
Upper Division	12,211.1	11,983.3	12,005.5	11,596.2	12,284.7	11,925.8	12,331.6	12,190.8	12,910.0	12,713.1
Graduate	1,970.9	1,839.1	1,868.5	1,744.3	1,704.2	1,550.9	1,652.6	1,549.4	1,601.1	1,514.1
Total	23,739.0	22,094.1	23,488.1	21,581.0	23,749.5	22,309.9	24,090.7	22,666.8	25,147.8	23,337.7
Faculty FTE (FTEF)²										
Lower Division	291.9	258.8	288.8	262.6	295.5	278.0	313.9	280.4	332.5	284.0
Upper Division	464.6	461.6	445.0	457.3	476.8	478.5	500.0	503.4	519.1	530.9
Graduate	137.7	137.9	127.1	132.9	127.8	126.2	129.4	126.4	133.0	134.3
Total	894.3	858.4	860.9	852.8	900.1	882.7	943.3	910.2	984.6	949.1
Student/Faculty Ratio (SFR)³										
Lower Division	32.7	32.0	33.3	31.4	33.0	31.8	32.2	31.8	32.0	32.1
Upper Division	26.3	26.0	27.0	25.4	25.8	24.9	24.7	24.2	24.9	23.9
Graduate	14.3	13.3	14.7	13.1	13.3	12.3	12.8	12.3	12.0	11.3
Total	26.5	25.7	27.3	25.3	26.4	25.3	25.5	24.9	25.5	24.6

¹ Full-Time Equivalent Students is the sum of Student Credit Units (SCU) divided by 15. Starting fall 2006, FTES is SCU/12 for Classified Graduate Students plus SCU/15 for all other students. (Unclassified Graduate Students include post baccalaureates pursuing a second bachelor's degree, or otherwise not admitted to a graduate degree, or credential program students; these students are combined with undergraduates when computing FTES.) For example, HRS 122 in spring 2007 was a 3-credit class with 47 undergraduate students and 1 classified graduate student enrolled. Thus, FTES is computed as $(47*3)/15 + (1*3)/12 = 9.4 + 0.25 = 9.65$

² Full-time Equivalent Faculty: Each full-time (workload of 15 weighted teaching units) permanent faculty member is defined as 1.0 FTEF, even though he/she teaches only nine months a year. The FTEF for a part-time faculty member is defined as workload divided by 15. For example, a part-time faculty member teaching two three-unit classes is counted as $6/15 = 0.4$ FTEF.

³ Student-Faculty Ratio is FTES divided by FTEF

TABLE 15: FTE and Student-Faculty Ratio by College

	Academic Year									
	2011-12		2012-13		2013-14		2014-15		2015-16	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Arts and Letters										
FTE Student	6,835.3	5,990.4	7,167.5	5,982.8	6,726.9	6,287.3	6,797.3	6,192.9	7,204.3	6,122.7
FTE Faculty	244.6	227.9	246.1	229.2	250.3	236.6	246.1	231.1	264.8	237.2
Student/Faculty Ratio	27.9	26.3	29.1	26.1	26.9	26.6	27.6	26.8	27.2	25.8
Business Administration										
FTE Student	2,354.4	2,314.2	2,043.3	1,911.6	2,058.7	2,025.2	2,019.2	1,959.3	2,033.4	1,948.8
FTE Faculty	69.0	66.1	58.4	61.5	65.1	64.3	65.8	63.7	64.7	64.3
Student/Faculty Ratio	34.1	35.0	35.0	31.1	31.6	31.5	30.7	30.8	31.4	30.3
Education										
FTE Student	2,166.0	2,179.8	2,255.1	1,998.4	2,351.6	2,113.0	2,362.8	2,085.6	2,427.6	2,128.0
FTE Faculty	104.6	106.7	103.4	102.7	108.4	108.3	106.3	104.1	107.6	108.0
Student/Faculty Ratio	20.7	20.4	21.8	19.5	21.7	19.5	22.2	20.0	22.6	19.7
Engineering and Computer Science										
FTE Student	1,265.8	1,157.4	1,248.4	1,177.5	1,392.3	1,322.6	1,551.0	1,529.5	1,782.9	1,707.5
FTE Faculty	66.5	59.2	60.1	57.8	64.6	64.2	71.1	70.4	81.2	78.7
Student/Faculty Ratio	19.0	19.5	20.8	20.4	21.5	20.6	21.8	21.7	21.9	21.7
Health and Human Services										
FTE Student	3,681.5	3,442.0	3,626.9	3,294.4	3,546.6	3,303.5	3,608.2	3,563.9	3,775.4	3,626.2
FTE Faculty	147.0	139.8	140.7	135.2	145.0	139.3	159.4	153.5	167.0	160.8
Student/Faculty Ratio	25.0	24.6	25.8	24.4	24.5	23.7	22.6	23.2	22.6	22.5
Natural Sciences and Mathematics										
FTE Student	2,954.7	2,773.2	2,795.4	2,789.9	3,008.2	2,888.0	3,126.2	3,028.5	3,282.7	3,253.5
FTE Faculty	108.5	108.2	104.3	111.8	109.9	115.6	123.7	123.6	128.5	132.7
Student/Faculty Ratio	27.2	25.6	26.8	25.0	27.4	25.0	25.3	24.5	25.5	24.5
Social Sciences and Interdisciplinary Studies										
FTE Student	4,344.8	4,148.3	4,214.0	4,329.8	4,522.7	4,261.6	4,470.9	4,201.5	4,493.9	4,439.2
FTE Faculty	139.2	134.7	132.2	138.7	142.1	138.4	152.7	146.8	153.1	154.2
Student/Faculty Ratio	31.2	30.8	31.9	31.2	31.8	30.8	29.3	28.6	29.3	28.8
Special Programs										
FTE Student	136.5	88.8	137.5	96.8	142.5	108.8	155.2	105.5	147.7	111.9
FTE Faculty	14.9	15.6	15.7	15.9	14.6	16.0	18.2	17.0	17.6	13.2
Student/Faculty Ratio	9.2	5.7	8.8	6.1	9.7	6.8	8.5	6.2	8.4	8.5
University										
FTE Student	23,739.0	22,094.1	23,488.1	21,581.0	23,749.5	22,309.9	24,090.7	22,666.8	25,147.8	23,337.7
FTE Faculty	894.3	858.4	860.9	852.8	900.1	882.7	943.3	910.2	984.6	949.1
Student/Faculty Ratio	26.5	25.7	27.3	25.3	26.4	25.3	25.5	24.9	25.5	24.6

TABLE 15: FTE and Student-Faculty Ratio by College (Continued)

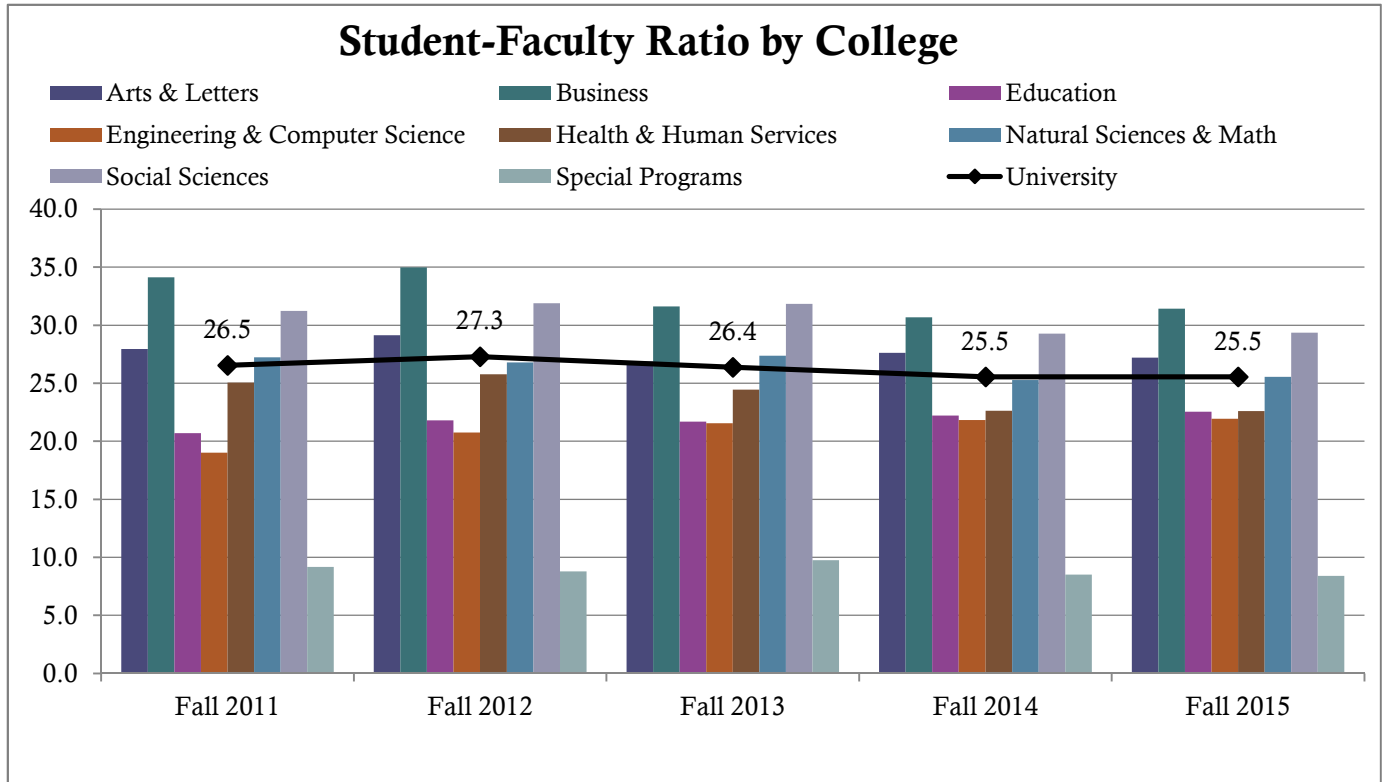


TABLE 16: Faculty Teaching Load by College

	Academic Year									
	2011-12		2012-13		2013-14		2014-15		2015-16	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Weighted Teaching Units (WTU)¹										
Arts and Letters	3,598	3,213	3,778	3,334	3,430	3,320	3,419	3,155	3,617	3,309
Business Administration	611	594	533	563	630	635	649	616	645	639
Education	1,639	1,673	1,605	1,578	1,720	1,634	1,664	1,535	1,068	1,065
Engineering & Computer Science	828	766	797	770	867	825	925	923	1,696	1,589
Health & Human Services	1,949	1,872	1,892	1,821	1,984	1,999	2,219	2,159	2,303	2,201
Natural Sciences & Mathematics	1,408	1,428	1,403	1,461	1,491	1,548	1,626	1,592	1,644	1,706
Social Sciences & Interdisciplinary Studies	1,569	1,585	1,489	1,611	1,681	1,621	1,741	1,680	1,766	1,730
Special Programs	248	213	259	240	246	238	258	252	258	198
Total	11,851	11,344	11,757	11,379	12,049	11,820	12,501	11,912	12,996	12,438
Student Credit Unit (SCU)²										
Arts and Letters	101,924	89,331	106,959	89,248	100,343	93,803	101,466	92,469	107,599	91,397
Business Administration	35,101	34,491	30,395	28,422	30,595	30,107	30,016	29,151	30,266	29,027
Education	30,401	30,839	31,769	28,138	33,726	30,338	34,163	30,132	26,031	24,975
Engineering & Computer Science	18,333	16,808	18,213	17,190	20,297	19,291	22,578	22,235	35,137	30,823
Health & Human Services	53,470	50,097	52,629	47,818	51,500	48,031	52,353	51,837	54,885	52,744
Natural Sciences & Mathematics	44,102	41,445	41,717	41,687	44,919	43,178	46,695	45,271	49,028	48,641
Social Sciences & Interdisciplinary Studies	64,586	61,723	62,741	64,507	67,450	63,592	66,689	62,727	67,084	66,297
Special Programs	2,046	1,332	2,062	1,450	2,135	1,630	2,325	1,579	2,214	1,679
Total	349,963	326,066	346,485	318,460	350,965	329,970	356,285	335,401	372,244	345,582

¹ WTU represents the total weighted teaching workload due to sections taught (all instructional modes) as well as all assigned time activity.

² Student Credit Unit (SCU) identifies the total number of earned course credit units for all students enrolled in a given section. For example, HRS 122 in spring 2007 was a 3-unit class with 48 students enrolled. Thus, SCU is computed as 48*3=144.

For non-supervision segment (CS Number 01 thru 21), WTU is computed as the product of Course Credit Units and a "K factor" obtained as follows:

CS Number	K factor	CS Number	K factor
01 thru 04 (lecture)	1.0	16, 17 (lab)	2.0
05 thru 06 (seminar)	1.0	18 (activity)	6.0
07 thru 14 (activity)	1.3	19 thru 21 (activity)	3.0
15 (lab)	1.5		

For a "supervision" resource segment (CS Number 23, 24, 25, 36, & 48), WTU is computed as enrollment times an adjusting factor obtained as follows:

CS Number	Adjusting Factor	CS Number	Adjusting Factor
23	1.00	36	0.33
24	0.67	48	0.25
25	0.50	77-78	0.00

TABLE 17: Student Course Load by College

	Academic Year										
	2011-12		2012-13		2013-14		2014-15		2015-16		2016
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
Undergraduate Students (Mean Units)											
Arts and Letters	13.1	12.6	12.7	12.7	13.0	12.8	12.6	12.5	12.8	12.6	12.9
Business Administration	13.0	12.5	12.2	12.3	12.5	12.2	12.1	12.1	12.3	12.3	12.5
Education	13.4	13.1	12.8	12.8	12.8	12.7	12.8	12.8	12.7	12.7	13.1
Engineering & Computer Science	13.4	13.0	12.8	12.9	13.0	12.8	12.6	12.6	12.8	12.9	13.1
Health & Human Services	13.6	13.0	12.8	12.9	13.0	12.6	12.6	12.4	12.7	12.6	13.1
Natural Sciences & Mathematics	13.1	12.7	12.7	12.5	12.6	12.4	12.2	12.1	12.5	12.4	12.7
Social Sciences & Interdisciplinary Studies	12.8	12.5	12.4	12.5	12.6	12.4	12.4	12.3	12.5	12.4	12.7
Special Programs	13.9	11.9	12.2	11.5	12.5	12.6	12.1	11.4	11.7	13.2	11.5
Undeclared	13.5	12.6	13.2	11.1	12.7	9.9	10.6	11.8	10.5	12.3	13.0
Total	13.2	12.7	12.6	12.5	12.8	12.3	12.3	12.4	12.5	12.5	12.9
Graduate Students (Mean Units)											
Arts and Letters	6.9	6.9	6.9	7.1	7.1	7.2	7.1	7.0	7.1	7.0	7.1
Business Administration	6.5	6.8	7.0	6.8	7.2	7.2	7.1	6.6	7.1	6.8	6.7
Education	11.8	11.6	11.9	11.1	12.4	11.6	12.4	11.4	7.5	6.9	6.9
Engineering & Computer Science	6.8	6.5	6.8	7.0	7.2	7.3	7.5	7.6	12.6	12.0	10.3
Health & Human Services	11.9	12.1	11.7	12.0	12.0	12.0	12.4	12.0	12.3	11.6	12.2
Natural Sciences & Mathematics	6.2	5.9	6.3	6.1	6.2	5.6	6.5	5.8	6.4	5.6	6.5
Social Sciences & Interdisciplinary Studies	7.1	6.7	6.5	6.6	6.7	6.4	7.0	6.4	6.5	6.3	6.7
Special Programs	6.3	6.2	6.0	5.4	5.0	5.5	6.3	5.7	6.8	6.0	5.0
Undeclared	4.8	5.9	16.6	5.8	0.0	6.4	3.0	5.4	0.0	5.6	17.1
Total	9.8	9.6	9.9	9.6	10.1	9.7	10.1	9.5	10.2	9.6	10.4