



Wisconsin Technical College System (WTCS) to
the University of Wisconsin System (UWS)
Program Assessment Study

July 2017

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HIGHLIGHTS

The 2017 WTCS/UWS Program Assessment Study identifies 116,349 students who attended a WTCS institution in fiscal years 1994-95 through 2014-15 and concurrently or subsequently enrolled at a UW institution. A significant number of students initially enrolled at a UW institution in the year directly following their last WTCS year.

Of the students enrolled in a specific WTCS program, students in applied associate degree programs formed the largest group (31%), followed by students in technical diploma programs (14%) and students in liberal arts programs (12%). The percentage of the students in the cohort who attended a WTCS institution and later a UW institution, but were not enrolled in a specific WTCS program, was 43 percent. While the number of students in the applied associate degree and technical diploma groups significantly increased, the number of students who were enrolled in liberal arts programs offered at Chippewa Valley, Madison Area, Milwaukee Area, Nicolet Area, and Western Technical Colleges and then came to the UWS, increased slightly. There has also been a significant increase in students who attended a WTCS institution and later a UW institution, but were not enrolled in a specific WTCS program.

The focus of program-to-program articulation agreements between the two Systems is primarily on WTCS applied associate degree programs. Fifty-seven percent (57%) of WTCS applied associate degree students who completed an associate degree program entered the UWS as sophomores or upperclassmen (juniors/seniors), whereas only 28 percent of those who did not complete an associate degree program entered the UWS as sophomores or upperclassmen. The proportion of WTCS applied associate degree program students who completed an associate degree program and entered the UWS as sophomores or upperclassmen increased from 45 percent in 1995-96 to 73 percent in 2014-15. The efforts of the two Systems to develop and expand articulation agreements may have contributed to the increase.

While the majority (94%) of WTCS liberal arts students who completed an associate degree program entered the UWS as sophomores or upperclassmen, 61 percent of WTCS liberal arts students who did not complete an associate degree program entered the UWS as sophomores or upperclassmen. Of the liberal arts students, however, only 13 percent completed their WTCS degree program prior to entering a UW institution.

Almost half of students (47%) coming to the UWS after attending a WTCS institution entered as transfer students. More than one third (36%) of students in the cohort were new, degree-seeking students and 12 percent of students initially enrolled as new special (non-degree seeking) students. New, degree-seeking students may receive credit for their prior coursework later in their UW enrollment if a transfer credit evaluation is requested. Since students who enroll as new specials are not degree-seeking, their prior coursework is usually not evaluated unless they become degree-seeking students.

Overall, 14 percent of the students in the assessment cohort were students of color, and 64 percent came to the UWS as full-time students. By age, students were about evenly distributed among the three age groups - under 20, between 20 and 24, and 25 or over.

Overall, students in the assessment cohort who entered the UWS as sophomores or as upperclassmen had similar second year retention rates, 79 percent and 80 percent, respectively; higher than for those who entered as freshmen (73%). The six-year graduation rate at the UWS for those degree-seeking students in the cohort was 38%. The average first year GPA for the overall group was between 2.7 and 3.0 on a 4.0 scale.

The remainder of this report focuses on selected WTCS programs - Nursing, Early Childhood Education, Information Technology (IT), Marketing, Criminal Justice, Accounting, and Engineering Technology - in applied associate degree programs as well as the Liberal Arts programs for additional analysis. For students in these

programs who enrolled in the UWS, UWS enrollment, UWS majors that they entered, second year retention rates, six-year graduation rates, and average first year GPA are reported. This information aids in the evaluation of current program-to-program articulation agreements and future revisions to or expansions of the agreements.

Students moving to the UWS were from a variety of WTCS programs including applied associate degree programs, liberal arts programs, and technical diploma programs. Movement for some students may have been facilitated by program-to-program articulation agreements. By tracking these students and their academic outcomes, this study contributes to the broader goal of ensuring that students have the requisite knowledge from their WTCS coursework to succeed in their UWS majors. Future reports may expand on this analysis as well as focus on areas for new WTCS/UWS initiatives.

INTRODUCTION

Background

For more than 20 years, the UW System (UWS) and UW institutions have worked with the Wisconsin Technical College System (WTCS) and Wisconsin Technical Colleges to expand opportunities for students transferring from WTCS associate degree programs. Under UW System undergraduate transfer policy, courses from WTCS associate degree programs may be accepted by UW System institutions in two ways, through course-specific credit transfer and through program-to-program articulation agreements.

Course-specific credit transfer applies to courses drawn primarily from WTCS systemwide general education courses. General education courses fall into the categories of behavioral and social sciences, communications, mathematics, and natural science. Course-specific transfer agreements may also exist for some occupational and technical courses. These agreements provide general credit transfer opportunities for students, regardless of the program of study in which the WTCS student was enrolled.

Program-to-program articulation agreements provide more specific transfer pathways for WTCS students who enroll in a specific applied or liberal arts associate degree. These agreements provide transfer credit beyond the general education and occupational/technical courses that may transfer on a course-specific basis. Currently, there are over 500 program-to-program articulation agreements between specific WTCS districts and UW System institutions. WTCS and UWS systemwide agreements are available to students in two program areas, nursing and early childhood education. Many of the existing agreements incorporate a 2+2 model where the WTCS transfer student enters the UW program with or close to junior standing.

In fall 2000, the Joint Administration Committee on Academic Programs (JACAP) established a working group to design an appropriate reporting mechanism for program assessment and improvement. In March 2001, a Data Exchange Memorandum of Understanding¹ between the WTCS Board and the UWS Board of Regents was developed. The group's primary goals were to: (1) track students who were enrolled at the WTCS and subsequently enrolled at the UWS and identify both their originating WTCS program and subsequent UWS major; (2) identify potential program areas for developing new transfer articulation agreements; and (3) assess the academic outcomes of these students, including retention and graduation. The working group's initial report in 2001 provided a baseline for the assessment of both current and new agreements. This is the eleventh report on the WTCS/UWS Program Assessment Study.

Establishment of a Cohort

Two factors determine a student's inclusion in the WTCS/UWS Program Assessment Study. First, the student must have initially enrolled at a WTCS institution. Second, the student must have concurrently or subsequently enrolled at a UW institution. Students' assignment to a specific cohort was based on their last year at the specific technical college and their initial year of UWS enrollment. For example, a student, who attended

MATC-Madison in fiscal years 1994-95 and 1995-96 and then enrolled at UW-Madison in fall 1996, would have a “Last WTCS Year” of 1995-96 and be in the 1996-97 UWS cohort. For additional information about the cohort formation, refer to the technical notes².

WTCS/UWS ENROLLMENT

The 2017 Program Assessment Study reports on 116,349 students who attended a WTCS institution in fiscal years 1994-95 through 2014-15, and concurrently or subsequently enrolled at a UW institution. Overall, a significant number of students initially enrolled at a UW institution in the year directly following their last WTCS year. Some students enrolled in the WTCS and UWS in the same academic year, either during the same term or at a WTCS institution one term and at a UW institution the following term, while many WTCS students began their UWS enrollment years after leaving the WTCS. For example, of the 4,777 students who were last enrolled in the WTCS in 1995-96 and concurrently or later enrolled in a UW institution, 1,823 (38%) students initially enrolled in a UW institution in 1996-97, 631 (13%) were enrolled in both Systems in 1995-96, and 2,323 (49%) waited more than one year before enrollment in the UWS (Table 1). Appendix A shows UWS enrollment for the overall cohort by WTCS institution and initial UWS enrollment year.

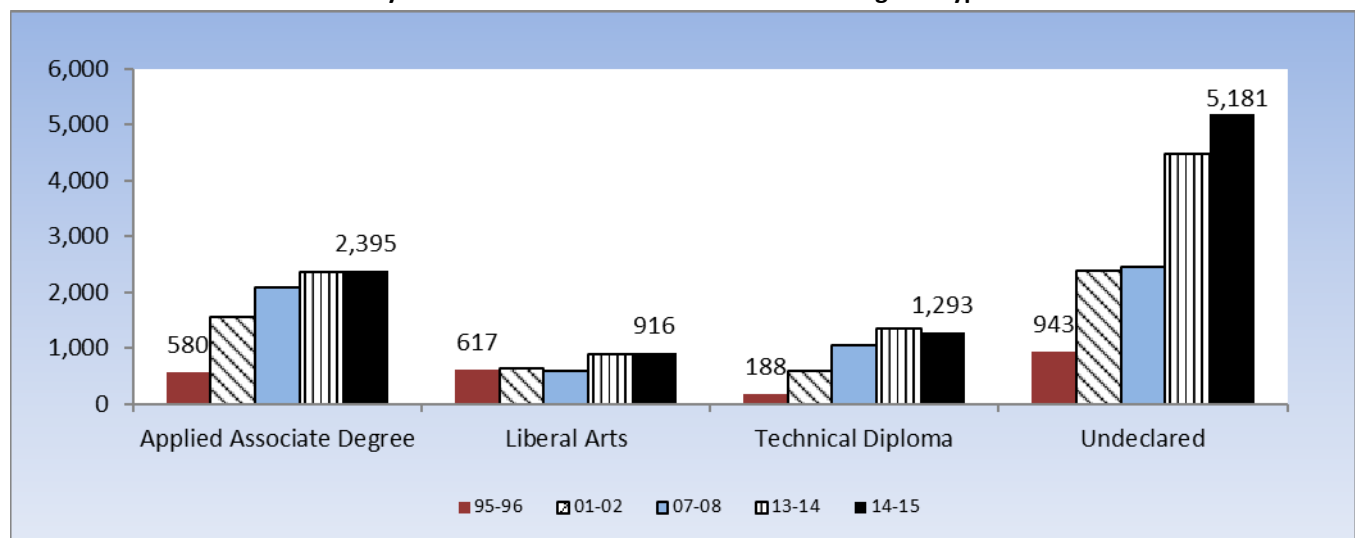
Table 1
WTCS/UWS Assessment Cohorts
by Last WTCS and Initial UWS Enrollment Years

Last WTCS Year	UWS Cohort Year																				Total
	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	
94-95	1,697	571	323	268	195	159	130	92	86	56	59	39	49	54	44	45	34	29	18	25	3,973
95-96	631	1,823	603	342	267	205	179	101	95	79	61	45	68	39	64	52	41	29	32	21	4,777
96-97		651	1,752	623	365	285	213	167	110	81	84	71	66	63	55	44	55	29	32	29	4,775
97-98			684	2,059	676	364	295	192	124	131	81	76	76	69	76	68	46	53	34	23	5,127
98-99				768	2,143	800	425	273	179	140	99	87	97	74	86	81	50	51	40	28	5,421
99-00					733	2,136	726	361	274	169	165	141	94	92	86	82	73	62	47	32	5,273
00-01						721	2,369	757	346	253	172	132	133	98	88	85	78	63	42	47	5,384
01-02							832	2,418	784	375	251	208	163	140	95	105	86	65	51	51	5,624
02-03								908	2,670	882	345	246	174	194	152	135	91	73	64	69	6,003
03-04									865	2,756	912	369	279	181	179	157	112	109	75	62	6,056
04-05										922	2,792	867	404	243	210	165	133	113	73	80	6,002
05-06											878	2,749	828	390	309	210	182	134	91	80	5,851
06-07												897	2,839	916	432	286	213	164	104	105	5,956
07-08													908	2,826	928	468	262	214	147	93	5,846
08-09														1,003	2,995	1,011	392	267	199	137	6,004
09-10															1,049	3,156	998	405	268	161	6,037
10-11																1,110	3,153	897	355	238	5,753
11-12																	1,048	4,436	1,413	599	7,496
12-13																		1,102	4,919	1,712	7,733
13-14																			1,065	5,190	6,255
14-15																				1,003	1,003
Total	2,328	3,045	3,362	4,060	4,379	4,670	5,169	5,269	5,533	5,844	5,899	5,927	6,178	6,382	6,848	7,260	7,047	8,295	9,069	9,785	116,349

STUDENT CHARACTERISTICS BY WTCS PROGRAM TYPE

The number of students who were enrolled in a WTCS applied associate degree program and then came to a UW has increased significantly over the last 20 years, from 580 in 1995-96 to 2,395 in 2014-15 (Figure 1). There has also been an increase in students who enrolled in WTCS technical diploma programs and concurrently or subsequently enrolled in the UW, from 188 in 1995-96 to 1,293 in 2014-15. In contrast, the number of students from liberal arts programs offered at Chippewa Valley, Madison Area, Milwaukee Area, Nicolet Area, and Western Technical Colleges increased slightly to 916. The largest group of WTCS students, who later attend a UW institution, were not enrolled in a specific WTCS program, increasing from 943 in 1995-96 to 5,181 in 2014-15. These undeclared students enrolled in a variety of WTCS courses. The top five instructional areas were social sciences, communication skills, nursing, natural sciences, and mathematics.

Figure 1
WTCS/UWS Assessment Cohorts
by Initial UWS Enrollment Year and WTCS Program Type



From 1995-96 to 2014-15, the percentage of the cohort enrolled in WTCS applied associate degree programs fluctuated and the proportion of the cohort enrolled in technical diploma programs grew from 8 percent to 13 percent. In contrast, the share of WTCS liberal arts students in the cohort declined from 27 percent in 1995-96 to 9 percent in 2014-15 (Table 2).

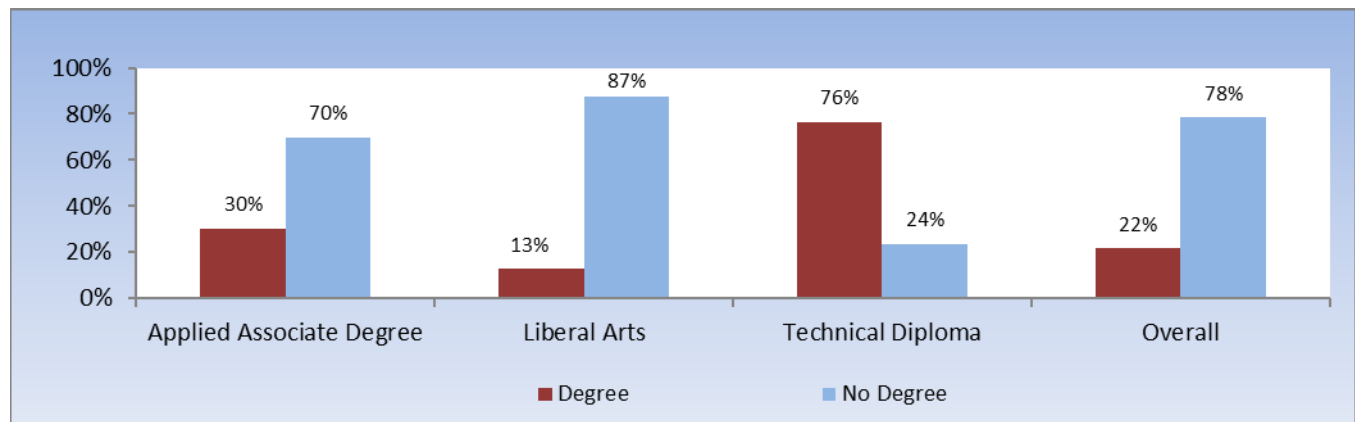
Table 2
WTCS/UWS Assessment Cohorts
by Initial UWS Enrollment Year and WTCS Program Type

Program Type	UWS Cohort Year					Overall
	95-96	01-02	07-08	13-14	14-15	
Applied Associate Degree	25%	30%	34%	26%	24%	31%
Liberal Arts	27%	12%	10%	10%	9%	12%
Technical Diploma	8%	12%	17%	15%	13%	14%
Undeclared	41%	46%	40%	49%	53%	43%
Total	100%	100%	100%	100%	100%	100%

WTCS Degree Completion Status

Of the WTCS students enrolled in applied associate degree programs who later attended a UW institution, 30 percent earned a WTCS applied associate degree. Only 13 percent of the WTCS liberal arts students earned the WTCS Associate Degree in Liberal Arts or Science prior to enrolling at a UW institution. In contrast, 76 percent of the technical diploma students completed their program before their UWS enrollment. Appendix B shows UWS enrollment for the overall cohort by the UWS initial enrollment year, WTCS program type, and WTCS degree completion status.

Figure 2
WTCS/UWS Assessment Cohorts - Overall
by WTCS Program Type and WTCS Degree Completion Status

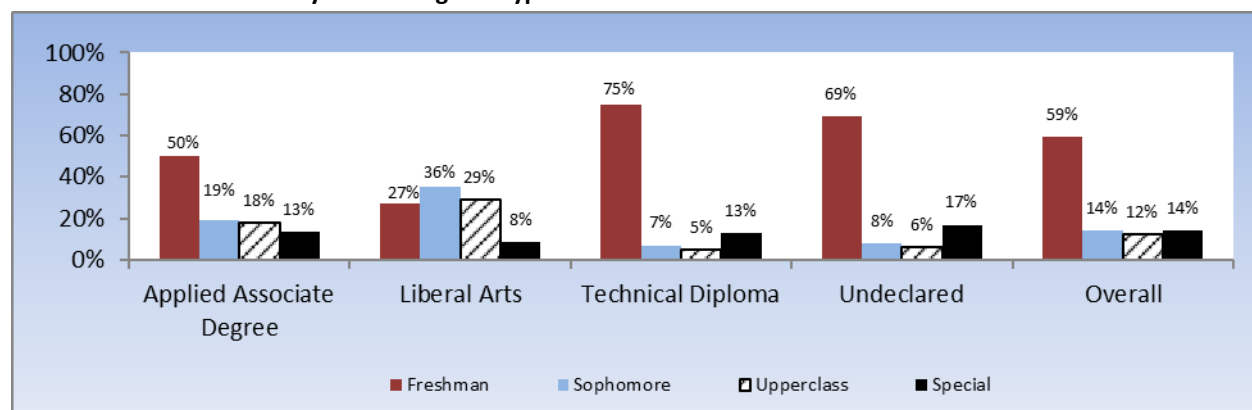


Note: Overall includes students who were not enrolled in a specific WTCS program.

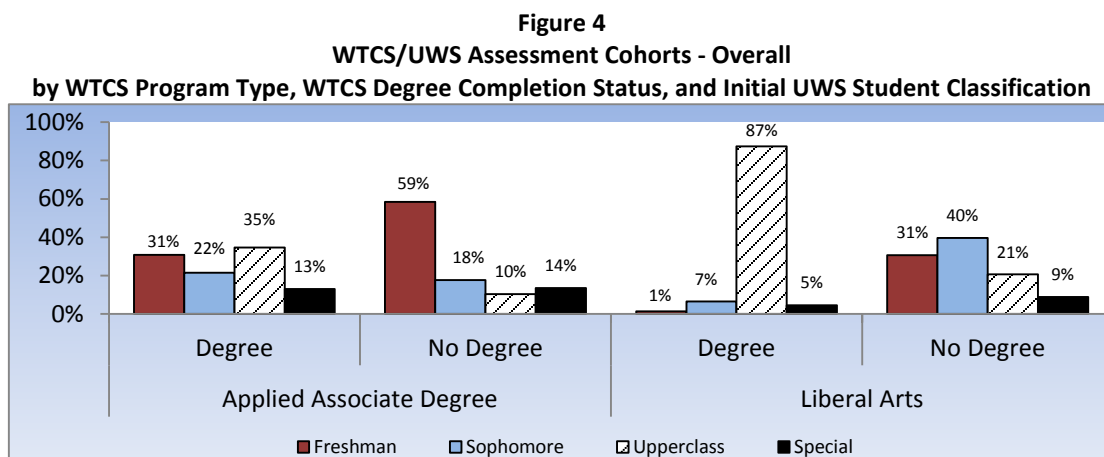
Initial UWS Student Classification³

The majority of WTCS students who were enrolled in applied associate degree programs (50%) and technical diplomas (75%) entered the UWS as freshmen, compared to 27 percent for students in WTCS liberal arts programs. For students who were not enrolled in a specific WTCS program, the percentage was 69 percent. Overall, 14 percent of the WTCS students in the cohort entered the UWS as special (non-degree seeking) students. While many special students enroll only to take a few courses, some of them may later enroll in degree programs and graduate. Appendix C presents the detailed information by initial UWS enrollment year and student classification.

Figure 3
WTCS/UWS Assessment Cohorts - Overall
by WTCS Program Type and Initial UWS Student Classification

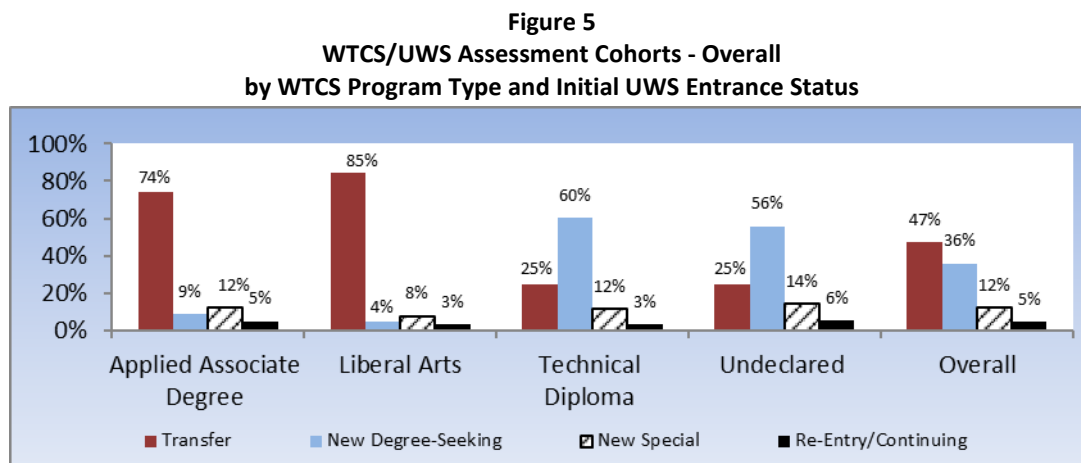


Students who earned a WTCS degree prior to their enrollment in the UWS were more likely to enter the UWS as upperclassmen (juniors/seniors) than students who did not earn a WTCS degree (Figure 4). Fifty-seven percent (57%) of the students in the assessment cohort who earned a WTCS applied associate degree entered the UWS as sophomores (22%) or upperclassmen (35%), compared to 28 percent for those who enrolled in an applied associate degree program but did not complete it before their enrollment at the UWS. The gap for WTCS liberal arts students is 94 percent versus 61 percent. Appendix D shows enrollment by WTCS degree completion status and initial UWS student classification for applied associate degree and liberal arts students in selected years. The proportion of WTCS applied associate degree students who completed their degree program and entered the UWS as sophomores or upperclassmen increased from 45 percent in 1995-96 to 73 percent in 2014-15. The efforts of the two Systems to develop and expand articulation agreements may have contributed to the increase.



Initial UWS Entrance Status

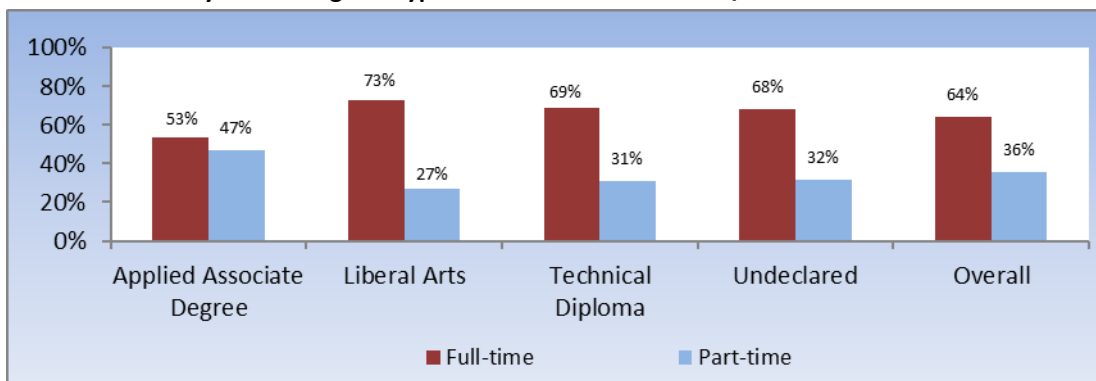
Almost half of the students (47% overall), coming to the UWS after attending a WTCS institution, entered as transfer students (Figure 5), that is, they notified the UW institution of their prior coursework and received transfer credits. More than one third of the students in the cohort were new, degree-seeking students. Often, these students receive credit for their prior coursework later in their UW enrollment. Since students who enroll as specials are not degree-seeking, their prior coursework is usually not evaluated. “Re-entry” students re-enrolled at the UW with no transfer work. “Continuing” students were enrolled at both a WTCS and UW institution during the same year. The proportion of WTCS students entering the UWS as transfer students varied by WTCS program type, from 25 percent for technical diploma students to 85 percent for liberal arts students. Appendix E shows enrollment of the overall cohort by entrance status and UW institution.



Initial UWS Full-Time/Part-Time Status

Overall, 64 percent of the WTCS students came to the UWS as full-time students. Students who were previously enrolled in WTCS liberal arts programs were more likely to attend the UWS as full-time students (73%).

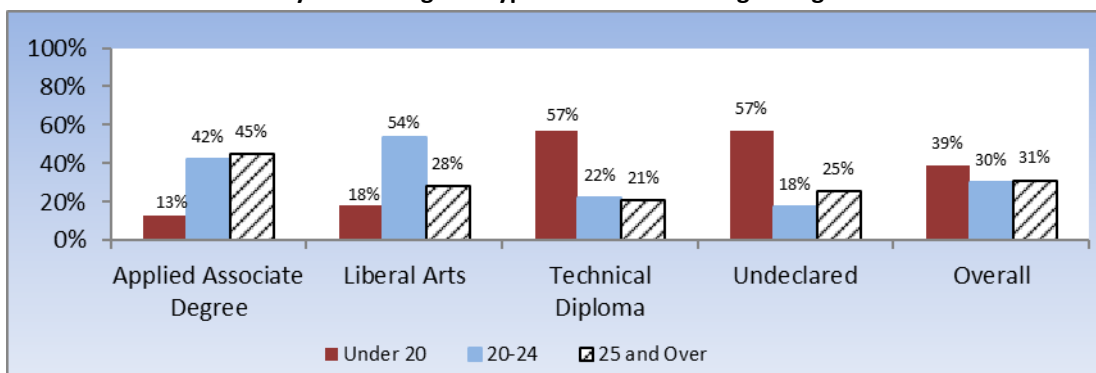
Figure 6
WTCS/UWS Assessment Cohorts - Overall
by WTCS Program Type and Initial UWS Full-Time/Part-Time Status



Initial UWS Age Range

The age distribution of students who were enrolled in the WTCS and later attended the UWS differed by WTCS program type. More students in applied associate degree programs (45%) were 25 or older. More than half of the students who were enrolled in liberal arts programs were between 20 and 24 years old. Fifty-seven percent (57%) of the students enrolled in technical diploma programs or those not enrolled in any specific WTCS program were under 20 years old.

Figure 7
WTCS/UWS Assessment Cohorts - Overall
by WTCS Program Type and Initial UWS Age Range



Student Race/Ethnicity

Overall, 14 percent of the students (15,939) in the cohort were students of color, ranging from 12 percent (2,013) in technical diploma programs to 19 percent (2,593) in liberal arts programs (Figure 8). The proportion of students of color, coming to the UWS after attending a WTCS institution, has increased to 17 percent (Figure 9). Among the selected WTCS programs, WTCS students from Liberal Arts (19%), Information Technology (17%), Early Childhood Education (18%), Accounting (16%), and Criminal Justice (16%) were more likely to be students of color than those from Nursing (13%), Marketing (12%), and Engineering Technology (10%).

Figure 8
WTCS/UWS Assessment Cohorts - Overall
by WTCS Program Type and Race/Ethnicity

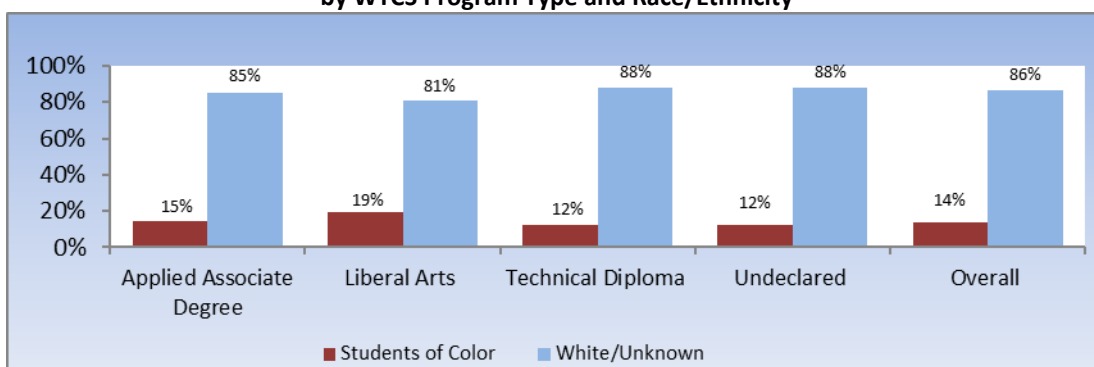
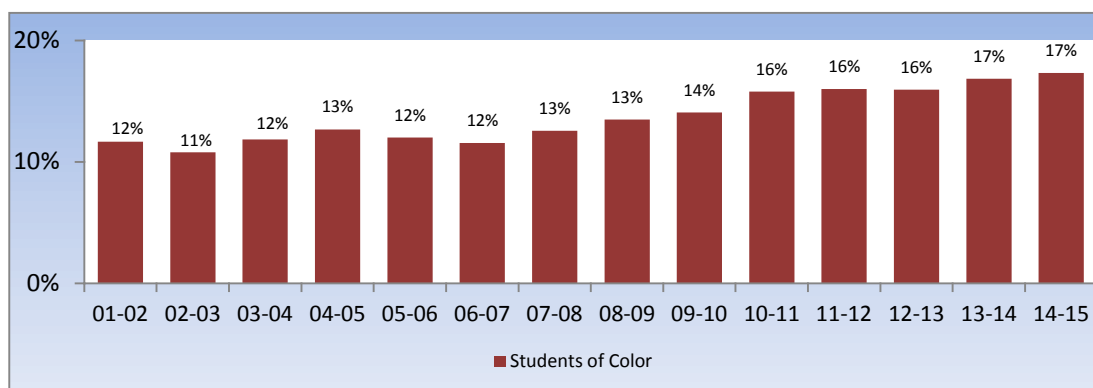


Figure 9
WTCS/UWS Assessment Cohorts - Overall
Students of Color by Initial UWS Enrollment Year

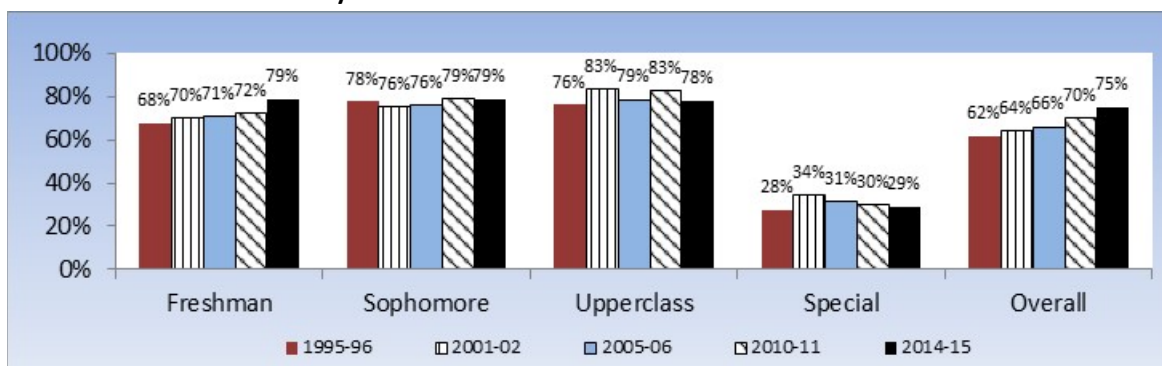


STUDENT OUTCOMES

Second Year Retention Rate

Overall, the second year retention rate⁴ for students who entered the UWS has increased, from 62 percent for those entering in 1995-96 to 75 percent for those entering in 2014-15 (Figure 10). Special students were retained at lower rates, consistent with their differing academic goals. See Appendix F for details.

Figure 10
Second Year Retention for WTCS/UWS Assessment Cohorts
by Initial UWS Enrollment Year and Classification



Six-Year Graduation Rate

The six-year graduation rate for students in the assessment study who entered the UWS between 1995-96 and 2010-11 was 38 percent. See Appendix H for details.

First Year GPA

The average first year GPA for students in the assessment study who entered the UWS between 1995-96 and 2014-15 was between 2.7 and 3.0 on a 4.0 scale. See Appendix I for details.

LINKING WTCS PROGRAMS TO UWS MAJORS

As a first step toward studying program-to-program activity, WTCS programs and UWS majors were categorized using a common classification system (based on CIP discipline areas)⁵. The student's last declared program at the WTCS institution and the student's first declared major at the UW institution were linked to their corresponding program/major groups. Table 3 shows the results of this program/major grouping. Specifically, the table shows, for a given WTCS program group (leftmost column), the number of students in the overall cohort who enrolled at a UW institution and the types of majors that they entered (reading across the columns). It also shows, the number of students in the cohort who enrolled in a given UWS major group (reading down a column). Lastly, the intersections of WTCS program and UWS major groups show areas where students are enrolling in similar disciplines. For example, 859 students in the cohort had enrolled in Agriculture & Natural Resources programs at the WTCS, 2,209 students in the cohort enrolled in Agriculture & Natural Resources majors at the UWS, and 238 students were enrolled in an Agriculture & Natural Resources program while at the WTCS and enrolled in a major in the same area when they came to the UWS. The WTCS program group with the largest number of students was Health-Related Professions with 20,866 students (18% of the overall cohort). Out of the 14,042 WTCS students in Humanities/Liberal Arts, 96 percent were enrolled in liberal arts programs offered at Chippewa Valley, Madison Area, Milwaukee Area, Nicolet Area, and Western Technical Colleges.

At many UW institutions, students are not required to declare a major until they reach junior or senior standing. This may partially account for the large number of UWS students with no declared major. Areas of significant program/major intersection included Health Professions to Health Professions with 5,211 students and Business to Business with 3,264 students. These program/major intersections show areas where current WTCS/UWS articulation agreements exist as well as areas where new agreements could be developed.

Table 3
WTCS/UWS Assessment Cohort - Overall
by WTCS Program and UWS Major Groups

WTCS Program Group	UWS Major Group													
	Ag (01)	Bio (02)	Bus (03)	Com (04)	Ed (05)	Engr (06)	Hlth (07)	H Ec (08)	Hum (09)	Math/CS (10)	Pub Adm (11)	Soc Sci (12)	Und (99)	Total
Ag & Natural Resources (01)	238	33	58	13	59	16	13	1	42	9	9	24	344	859
Biological/Physical Sci (02)	6	65	14	3	7	9	7	0	17	5	2	13	80	228
Business (03)	131	280	3,264	505	816	94	483	63	948	326	344	789	4,102	12,145
Communications/Arts (04)	14	31	137	572	123	30	69	7	94	35	39	107	668	1,926
Education (05)	3	7	30	35	794	3	46	43	85	9	63	62	630	1,810
Engineering & Architect (06)	58	77	456	74	158	556	48	5	107	167	23	93	1,593	3,415
Health-Related Prof (07)	128	1,616	708	347	898	66	5,211	121	671	100	846	915	9,239	20,866
Home Econ/Personal Ser (08)	12	13	154	42	105	6	44	12	40	8	23	48	481	988
Humanities/Liberal Arts (09)	444	787	1,600	1,127	1,414	530	1,071	159	937	380	595	1,630	3,368	14,042
Math, Comp & Info Scis (10)	16	72	394	130	100	43	68	6	197	719	49	125	1,188	3,107
Public Admin/Legal Svcs (11)	64	104	354	97	214	32	206	14	367	39	936	495	1,673	4,595
Social Sciences (12)	0	0	4	0	2	0	0	0	1	1	1	5	1	15
Trades/Tech (13)	54	51	292	59	180	130	36	3	45	60	38	76	1,043	2,067
Undeclared (99)	1,041	2,825	5,634	2,401	3,222	1,469	4,062	228	2,077	1,268	1,596	2,960	21,503	50,286
Total	2,209	5,961	13,099	5,405	8,092	2,984	11,364	662	5,628	3,126	4,564	7,342	45,913	116,349

PROGRAM-SPECIFIC ENROLLMENTS AND ASSESSMENT

The remaining sections of the report analyze groups of students in the overall cohort who were enrolled in specific programs at the WTCS and then entered specific majors or major groups at a UW institution⁶. These WTCS programs were selected for this report for a variety of reasons. The Nursing and Early Childhood Education programs were selected because of multi-campus transfer agreements for these programs. Criminal Justice was considered to be a potential area for future growth. The Information Technology (IT) and Marketing programs were selected because a large number of students in the cohort were enrolled in these programs. Similarly, Accounting, Engineering Technology, and Liberal Arts programs were added in the 2007 report due to a large number of students in the cohort enrolling in these programs. Students in the seven applied associate degree programs represented 55 percent of applied associate degree program students in the assessment cohort.

Nursing

The 2017 assessment study includes 3,620 students who last enrolled in the WTCS Nursing applied associate degree program between 1994-95 and 2014-15, and subsequently enrolled at a UW institution (Table 4). Similar to the trend shown for the overall cohort (Table 1), a large portion of nursing students came to the UWS in the year following their WTCS enrollment. However, for some students, there was a considerable gap between their last WTCS year and initial UWS enrollment year. Of the 138 nursing students who last enrolled in the WTCS in 1995-96, 45 students (33%) enrolled in the UWS in 1996-97, 10 students (7%) were concurrently enrolled, and 83 students (60%) waited at least one year before their UWS enrollment. Refer to Appendix J for enrollment of students in WTCS Nursing applied associate degree programs by WTCS institution and UWS institution. Appendix K summarizes WTCS/UWS transfer agreements for WTCS Nursing applied associate degree programs.

Table 4
WTCS/UWS Assessment Cohorts
WTCS Nursing Applied Associate Degree Students by Last WTCS and Initial UWS Enrollment Years

Last WTCS Year	UWS Cohort Year																			Total	
	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14		14-15
94-95	26	15	13	10	3	8	8	2	3	2	1	5	2	3	1	1	3	3		1	110
95-96	10	45	14	4	5	16	10	4	6	4	3	3	1		4	1	2	2	2	2	138
96-97		30	43	9	13	11	8	8	7	5	4	3	9	2		1	2		3	4	162
97-98			13	44	9	13	13	11	4	11	5	4	1	2	1	4	4		1		140
98-99				18	41	22	12	10	3	4	6	3	6	7	1	1	2	2	1	1	140
99-00					21	40	19	8	9	6	8	16	4	4	3	3	7		2	3	153
00-01						13	37	10	11	8	6	6	1	2	3	4	2	3	2	4	112
01-02							16	56	22	15	12	11	10	6	2	3	1	4		2	160
02-03								51	72	18	10	13	9	5	7	2	7	4	5	2	205
03-04									29	63	15	17	18	10	4	7	5	4	4	2	178
04-05										41	96	26	19	9	9	10	9	4	5	4	232
05-06											39	81	24	13	21	13	11	8	3	7	220
06-07												49	61	31	8	19	11	14	10	9	212
07-08													44	70	24	21	15	10	10	2	196
08-09														43	75	38	9	11	9	6	191
09-10															46	99	36	19	20	8	228
10-11																54	104	28	17	7	210
11-12																	53	87	44	12	196
12-13																		63	99	28	190
13-14																			52	115	167
14-15																				80	80
Total	36	90	83	85	92	123	123	160	166	177	205	237	209	207	209	281	283	266	289	299	3,620

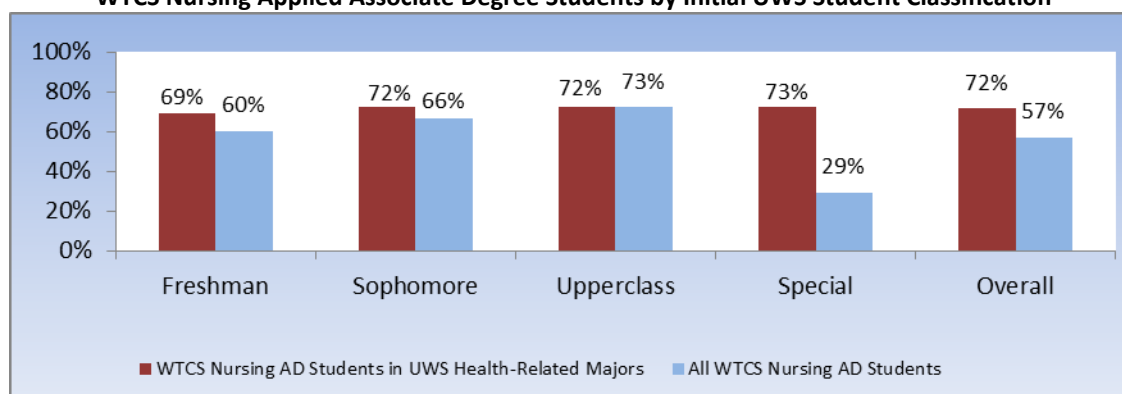
Table 5 shows the type of UWS majors chosen by WTCS nursing students. While the majority of WTCS nursing students in the cohort entered Health-Related Professions, they also pursued majors in Biological/Physical Science, Education, and Social Sciences areas. Some of the WTCS nursing students in the undeclared group may be seeking a UWS Nursing degree but have not yet been admitted to the UWS Nursing major.

Table 5
WTCS/UWS Assessment Cohorts
WTCS Nursing Applied Associate Degree Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Natural Resources (01)	7	0%	0%
Biological/Physical Sciences (02)	104	3%	5%
Business (03)	53	1%	3%
Communications/Arts (04)	25	1%	1%
Education (05)	93	3%	5%
Engineering & Architecture (06)	4	0%	0%
Health-Related Professions (07)	1,496	41%	75%
Home Economics/Personal Services (08)	8	0%	0%
Humanities/Liberal Arts (09)	68	2%	3%
Math, Computer & Info Sciences (10)	9	0%	0%
Public Admin/Legal Services (11)	52	1%	3%
Social Sciences (12)	85	2%	4%
Total with Declared Major	2,004	55%	100%
Undeclared	1,616	45%	
Total	3,620	100%	

Within the overall assessment cohort, WTCS nursing students who declared a UWS major in Health-Related Professions had a second year retention rate of 72 percent, compared to 57 percent for WTCS nursing students as a group (Figure 11). See Appendix G for details.

Figure 11
Second Year Retention for WTCS/UWS Assessment Cohorts
WTCS Nursing Applied Associate Degree Students by Initial UWS Student Classification



Within the assessment cohorts who enrolled in the UWS from 1995-96 to 2010-11 as degree-seeking students, WTCS nursing students who declared a UWS major in Health-Related Professions had a six-year graduation rate of 39 percent, compared to 27 percent for WTCS nursing students as a group. See Appendix H for details.

The average first year GPA for WTCS nursing students ranged from 2.9 to 3.2 from 1995-96 to 2014-15. In general, WTCS nursing students had a slightly higher average first year GPA than students in the overall assessment study. Appendix I shows their average first year GPA in selected years and overall.

The program assessment study also looked at WTCS originating programs for UWS Nursing majors. Of the students in the cohort with a Nursing major at the UWS, 36 percent were in WTCS Nursing Assistant programs and 21 percent were in WTCS Nursing applied associate degree programs (Table 6). However, students from Liberal Arts programs and other WTCS programs also pursued UWS Nursing majors. Twenty-eight percent (28%) of the UWS nursing students were not previously enrolled in a specific WTCS program.

Table 6
WTCS/UWS Assessment Cohorts - Overall
WTCS Source Programs for UWS Nursing Majors

WTCS Program/Program Group	# of Students	% of Total	% of Total with Declared Major
Nursing Assistant	2,341	36%	49%
Nursing Applied Associate Degree	1,403	21%	30%
Liberal Arts	244	4%	5%
Other Health Programs	289	4%	6%
Other Programs	453	7%	10%
Total with Declared Major	4,730	72%	100%
Undeclared	1,862	28%	
Total	6,592	100%	

Early Childhood Education

The 2017 program assessment study includes 1,693 students who were enrolled in WTCS Early Childhood Education applied associate degree programs between 1994-95 and 2014-15 and subsequently enrolled at a UW institution (Table 7). The overall trend indicates an increase in the number of WTCS early childhood students continuing their education in the UWS. Similar to the trend shown for the overall cohort (Table 1), a large portion of the early childhood students (47%) came to the UWS in the year following their WTCS enrollment. Refer to Appendix L for enrollment of students in the WTCS Early Childhood Education applied associate degree programs by WTCS institution and UWS institution. Appendix M summarizes WTCS/UWS transfer agreements for WTCS Early Childhood Education programs.

Table 7
WTCS/UWS Assessment Cohorts
WTCS Early Childhood Education Students by Last WTCS and Initial UWS Enrollment Years

Last WTCS Year	UWS Cohort Year																			Total	
	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14		14-15
94-95	8	4	1	2	3		1	1	2	1			2								25
95-96	1	12	2	2	1	2	1			2	1			1	1					1	27
96-97		2	13	4	4	2			1	1	1	1		2						1	32
97-98			4	18	3	3	4	2	2	1	1		1	1	1	3					44
98-99				9	20	6	5	2	3		1	1	1		2	1		2	1		54
99-00					12	22	5	6	3	2	1	3				2	3			1	60
00-01						6	25	4	1	3	2	1		1	4	3				2	52
01-02							15	23	8	5	1	3	2	1	3	4	2	1	2	2	72
02-03								8	35	9	5	3	3	11	2	4	2	1	1	1	85
03-04									12	37	8	8	9	5	1	2	3	3	3	2	93
04-05										6	32	5	9	6	7	4	2		2	1	74
05-06											22	65	13	10	8	3	5	1	2	4	133
06-07												16	53	15	14	9	7	6	3	4	127
07-08													23	51	17	11	9	9	3	3	126
08-09														17	46	12	4	4	4	5	92
09-10															26	69	5	13	6	5	124
10-11																40	60	13	4	4	121
11-12																	31	67	16	9	123
12-13																		37	59	11	107
13-14																			29	74	103
14-15																				19	19
Total	9	18	20	35	43	41	56	46	67	67	75	106	116	121	132	167	133	157	135	149	1,693

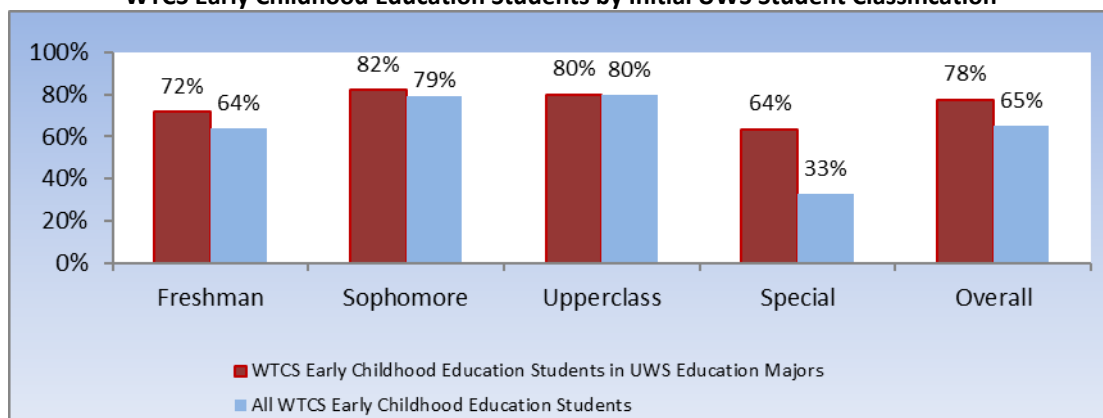
Table 8 shows the type of UWS majors chosen by WTCS Early Childhood Education students. Students in this group predominately entered a UWS major in the Education area. Some of the WTCS early childhood students in the undeclared group may be seeking a UWS Education degree but have not yet been admitted to the UWS Education major.

Table 8
WTCS/UWS Assessment Cohorts
WTCS Early Childhood Education Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Natural Resources (01)	3	0%	0%
Biological/Physical Sciences (02)	6	0%	1%
Business (03)	28	2%	3%
Communications/Arts (04)	32	2%	3%
Education (05)	761	45%	68%
Engineering & Architecture (06)	3	0%	0%
Health-Related Professions (07)	44	3%	4%
Home Economics/Personal Services (08)	42	2%	4%
Humanities/Liberal Arts (09)	75	4%	7%
Math, Computer & Info Sciences (10)	8	0%	1%
Public Admin/Legal Services (11)	60	4%	5%
Social Sciences (12)	58	3%	5%
Total with Declared Major	1,120	66%	100%
Undeclared	573	34%	
Total	1,693	100%	

WTCS Early Childhood Education students who declared a UWS major in the Education area had an overall second year retention rate of 78 percent (Figure 12). This compares to 65 percent for all WTCS early childhood students in the assessment study. See Appendix G for details.

Figure 12
Second Year Retention for WTCS/UWS Assessment Cohorts
WTCS Early Childhood Education Students by Initial UWS Student Classification



Within the assessment cohorts who enrolled in the UWS from 1995-96 to 2010-11 as degree-seeking students, WTCS early childhood students who declared a UWS major in the Education area had a six-year graduation rate of 48 percent, compared to 35 percent for WTCS early childhood students as a group. See Appendix H for details.

The average first year GPA for WTCS Early Childhood Education students varied from 2.6 to 3.1 from 1995-96 to 2014-15. Some of the year-to-year variability in the average GPAs may be due to the small early childhood cohort size. Appendix I shows the average first year GPA in selected years and overall.

Students in the cohort entered UWS Early Childhood/Elementary Education majors from a variety of WTCS programs (Table 9). Sixteen percent (16%) were in the WTCS Early Childhood Education programs and 11 percent were in WTCS Liberal Arts programs. Students in WTCS Business, Nursing Assistant, and other Health programs composed 22 percent of UWS students in Early Childhood/Elementary Education majors in the assessment cohort, while those who were not enrolled in a specific WTCS program made up 41 percent.

Table 9
WTCS/UWS Assessment Cohorts
WTCS Source Programs for UWS Early Childhood/Elementary Education Majors

WTCS Program/Program Group	# of Students	% of Total	% of Total with Declared Major
Early Childhood Ed	574	16%	27%
Liberal Arts	410	11%	19%
Business Programs	324	9%	15%
Nursing Assistant	240	7%	11%
Other Health Programs	209	6%	10%
Other Programs	379	11%	18%
Total with Declared Major	2,136	59%	100%
Undeclared	1,455	41%	
Total	3,591	100%	

Information Technology (IT)

The 2017 program assessment cohort includes 3,340 students who were enrolled in WTCS Information Technology (IT) applied associate degree programs between 1994-95 and 2014-15 and subsequently enrolled at a UW institution (Table 10). The overall trend indicates an increase in the number of WTCS IT students continuing their education in the UWS. Students in the IT group showed similar patterns as students in other program groups and in the overall cohort as a larger portion of students (41%) enrolled in the UWS in the year following their WTCS enrollment. Refer to Appendix N for enrollment of students in WTCS Information Technology (IT) applied associate degree programs by WTCS institution and UWS institution. Appendix O summarizes WTCS/UWS transfer agreements for WTCS IT programs.

Table 10
WTCS/UWS Assessment Cohorts
WTCS Information Technology (IT) Students by Last WTCS and Initial UWS Enrollment Years

Last WTCS Year	UWS Cohort Year																			Total	
	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14		14-15
94-95	24	8	10	4	4	3	4	1	2	2	2			2	2	1	1	1			71
95-96	11	38	12	6	7	6	4	4	4	2		2	2	3	3	1			1		106
96-97		7	43	13	11	5	9	3	3	2	2	3	1	2	6	1	3	1	2	1	118
97-98			15	54	12	9	11	11	4	9	4	3	6	1	3	2		1	2	1	148
98-99				25	53	21	10	6	12	7	2	3	2	4	6	6	4	3	3	1	168
99-00					22	65	25	20	16	8	5	7	4	9	5	6	2	6	4	3	207
00-01						37	90	28	15	16	10	10	11	6	2	5	9	4	2	2	247
01-02							39	93	27	21	6	4	4	7	5	7	6	5	3	2	229
02-03								47	88	23	14	9	10	10	12	11	3	7	2	6	242
03-04									28	81	25	17	23	6	7	10	7	4	3	3	214
04-05										25	76	18	19	18	9	10	6	2	2	3	188
05-06											18	57	21	14	18	10	8	4	5	3	158
06-07												35	57	19	16	10	8	4	2	5	156
07-08													22	80	16	18	10	13	5	5	169
08-09														29	79	18	26	8	5	8	173
09-10															36	98	23	15	9	3	184
10-11																38	83	28	11	11	171
11-12																	35	84	20	14	153
12-13																		29	76	19	124
13-14																			20	63	83
14-15																					31
Total	35	53	80	102	109	146	192	213	199	196	164	168	182	210	225	252	234	219	177	184	3,340

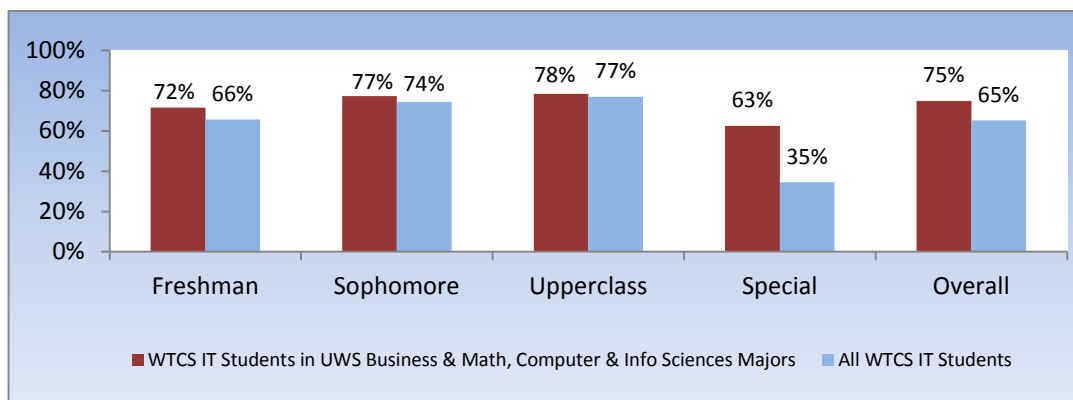
Of the information technology students, 38 percent pursued UWS majors in either the Math, Computer & Information Sciences area, or the Business area (Table 11). This illustrates the two different directions that IT students can pursue at a UW institution – either entering majors with a computer/information science focus or majors with a business focus such as Management Information Systems. However, some IT students changed direction and enrolled in majors in Humanities/Liberal Arts, Social Sciences, and Communications/Arts areas.

Table 11
WTCS/UWS Assessment Cohorts
WTCS Information Technology (IT) Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Nat Resources (01)	16	0%	1%
Biological/Physical Sciences (02)	85	3%	4%
Business (03)	412	12%	19%
Communications/Arts (04)	119	4%	6%
Education (05)	97	3%	5%
Engineering & Architecture (06)	55	2%	3%
Health-Related Professions (07)	76	2%	4%
Home Economics/Personal Services (08)	8	0%	0%
Humanities/Liberal Arts (09)	210	6%	10%
Math, Computer & Info Sciences (10)	858	26%	40%
Public Admin/Legal Services (11)	50	1%	2%
Social Sciences (12)	136	4%	6%
Total with Declared Major	2,122	64%	100%
Undeclared	1,218	36%	
Total	3,340	100%	

WTCS IT students who declared a UWS major in the Math, Computer & Information Sciences, or Business area had an overall second year retention rate of 75 percent (Figure 13). This compares to 65 percent for all WTCS IT students in the assessment study. See Appendix G for details.

Figure 13
Second Year Retention for WTCS/UWS Assessment Cohorts
WTCS Information Technology (IT) Students by Initial UWS Student Classification



Within the assessment cohorts who enrolled in the UWS from 1995-96 to 2010-11 as degree-seeking students, WTCS IT students who declared a UWS major in the Math, Computer & Information Sciences, or Business area had a six-year graduation rate of 47 percent, compared to 31 percent for WTCS IT students as a group. See Appendix H for details.

The average first year GPA for WTCS IT students varied from 2.4 to 3.0 from 1995-96 to 2014-15. In general, WTCS IT students had comparable average first year GPAs as students in the overall assessment group. Appendix I shows their average first year GPA in selected years and overall.

Students in a variety of WTCS programs later declared a UWS Computer Science/Information Systems major (Table 12). Within the cohort, the largest source was WTCS Information Technology programs (26%), followed by WTCS Liberal Arts programs (9%). Students in WTCS Business, Engineering Technology, and Health programs also pursued UWS Computer Science/Information Systems majors.

Table 12
WTCS/UWS Assessment Cohorts
WTCS Source Programs for UWS Computer Science/Information Systems Majors

WTCS Program/Program Group	# of Students	% of Total	% of Total with Declared Major
Information Technology	601	26%	43%
Liberal Arts	219	9%	16%
Business Programs	153	7%	11%
Engineering Technology	127	5%	9%
Health Programs	72	3%	5%
Other Programs	215	9%	16%
Total with Declared Major	1,387	60%	100%
Undeclared	937	40%	
Total	2,324	100%	

Marketing

The 2017 program assessment cohort includes 2,714 students who were enrolled in WTCS Marketing applied associate degree programs between 1994-95 and 2014-15 and subsequently enrolled at a UW institution (Table 13). Students in the marketing group showed similar patterns as students in other program groups and in the overall cohort with a larger group of students (45%) enrolling in the UWS in the year following their WTCS enrollment. Refer to Appendix P for enrollment of students in WTCS Marketing applied associate degree programs by WTCS institution and UW institution. Appendix Q summarizes WTCS/UWS transfer agreements for WTCS Marketing programs.

Table 13
WTCS/UWS Assessment Cohorts
WTCS Marketing Students by Last WTCS and Initial UWS Enrollment Years

Last WTCS Year	UWS Cohort Year																				Total
	95- 96	96- 97	97- 98	98- 99	99- 00	00- 01	01- 02	02- 03	03- 04	04- 05	05- 06	06- 07	07- 08	08- 09	09- 10	10- 11	11- 12	12- 13	13- 14	14- 15	
94-95	41	17	6	5	5	4	1			1			2			1	1	1	1	1	87
95-96	12	53	13	7	14	4	2	1	2	2	1		1	2	2	1	1	1		1	120
96-97		26	43	19	11	5	7	3	4		1	2	1	3			1	1			127
97-98			18	46	13	9	7	4	3	2	2			1	1		2				108
98-99				32	57	13	10	3	2	3	1	1	1		5	3	1	1			133
99-00					24	53	19	5	8	6	2	2	1	1	1		1	6	2		131
00-01						30	79	11	7	6	6	3	6	4	4	1	3	2			162
01-02							46	66	22	11	7	8	3	10	2	2	2	1		1	181
02-03								38	60	16	9	14	4	2	2	3	1	1	2	2	154
03-04									46	85	12	9	11	5	4	9	4	4	1		190
04-05										41	89	20	11	7	7	10	6	5	1	1	198
05-06											49	93	17	16	7	4	8	5	2	2	203
06-07												60	71	12	9	10	8	6	1	1	178
07-08													37	70	20	13	8	8	2	3	161
08-09														28	81	13	7	5	5	4	143
09-10															30	72	14	10	5	4	135
10-11																27	62	10	3	4	106
11-12																	16	37	13	2	68
12-13																		21	33	11	65
13-14																			18	27	45
14-15																				19	19
Total	53	96	80	109	124	118	171	131	154	173	179	212	166	161	175	169	146	125	89	83	2,714

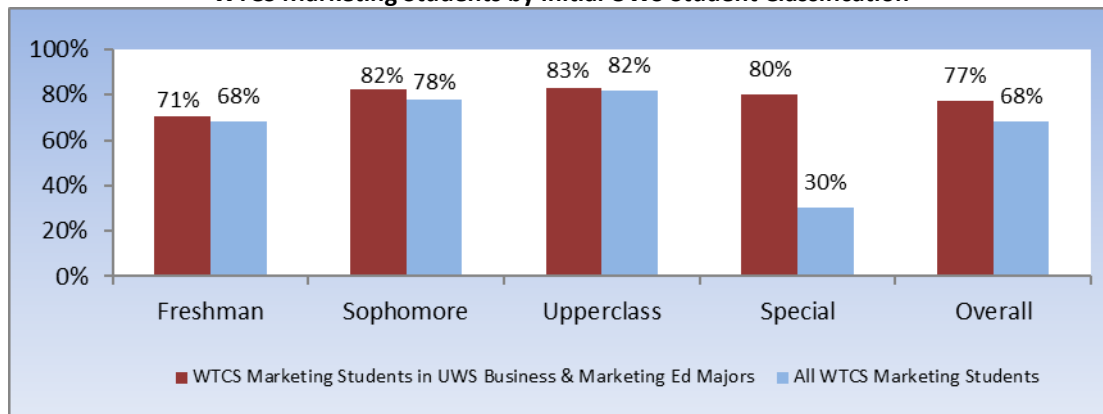
WTCS marketing students in the cohort pursued two principal types of majors at the UWS (Table 14). A large group of students enrolled in Business majors (28%) while a significant group of students entered UWS Education majors (9%). Of the 238 students in UWS Education majors, 38% were in the Business/Marketing Education majors.

Table 14
WTCS/UWS Assessment Cohorts
WTCS Marketing Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Nat Resources (01)	20	1%	1%
Biological/Physical Sciences (02)	56	2%	3%
Business (03)	768	28%	42%
Communications/Arts (04)	159	6%	9%
Education (05)	238	9%	13%
Engineering & Architecture (06)	15	1%	1%
Health-Related Professions (07)	106	4%	6%
Home Economics/Personal Services (08)	12	0%	1%
Humanities/Liberal Arts (09)	198	7%	11%
Math, Computer & Info Sciences (10)	24	1%	1%
Public Admin/Legal Services (11)	66	2%	4%
Social Sciences (12)	183	7%	10%
Total with Declared Major	1,845	68%	100%
Undeclared	869	32%	
Total	2,714	100%	

WTCS marketing students who declared a UWS major in the Business or Marketing Education areas had an overall second year retention rate of 77 percent (Figure 14). This compares to 68 percent for all WTCS marketing students in the assessment study. See Appendix G for details.

Figure 14
Second Year Retention for WTCS/UWS Assessment Cohorts
WTCS Marketing Students by Initial UWS Student Classification



Within the assessment cohorts who enrolled in the UWS from 1995-96 to 2010-11 as degree-seeking students, WTCS Marketing students who declared a UWS major in the Business or Marketing Education areas had a six-year graduation rate of 50 percent, compared to 35 percent for WTCS marketing students as a group. See Appendix H for details.

The average first year GPA for WTCS marketing students ranged between 2.5 and 2.8 from 1995-96 to 2014-15. In general, WTCS marketing students had a slightly lower average first year GPA than students in the overall assessment group. Appendix I shows their average first year GPA in selected years and overall.

Students in a variety of WTCS programs later declared a UWS Business Administration, Management, or Marketing major (Table 15). Within the cohort, WTCS Liberal Arts programs were the largest single source (10%). WTCS marketing students comprised 9 percent of the UWS Business Administration, Management, and Marketing majors in the study.

Table 15
WTCS/UWS Assessment Cohorts
WTCS Source Programs for UWS Business Administration/Management/Marketing Majors

WTCS Program/Program Group	# of Students	% of Total	% of Total with Declared Major
Liberal Arts	660	10%	22%
Marketing	610	9%	20%
Accounting	300	5%	10%
Other Business Programs	799	12%	27%
Health Programs	358	6%	12%
Information Technology	161	2%	5%
Public Admin/Legal Services Programs	190	3%	6%
Other Programs	570	9%	19%
Total with Declared Major	2,988	46%	100%
Undeclared	2,821	44%	
Total	6,469	100%	

Criminal Justice

WTCS Criminal Justice applied associate degree programs were included in the program assessment study as a potential area for System-to-System articulation. The 2017 assessment cohort includes 2,891 students who were enrolled in WTCS Criminal Justice programs between 1994-95 and 2014-15 and subsequently enrolled at a UW institution (Table 16). Refer to Appendix R for enrollment of students in WTCS Criminal Justice applied associate degree programs by WTCS institution and UWS institution. Appendix S summarizes WTCS/UWS transfer agreements for WTCS Criminal Justice programs.

Table 16
WTCS/UWS Assessment Cohorts
WTCS Criminal Justice Students by Last WTCS and Initial UWS Enrollment Years

Last WTCS Year	UWS Cohort Year																				Total
	95- 96	96- 97	97- 98	98- 99	99- 00	00- 01	01- 02	02- 03	03- 04	04- 05	05- 06	06- 07	07- 08	08- 09	09- 10	10- 11	11- 12	12- 13	13- 14	14- 15	
94-95	41	15	12	4	8	2	3	1	4	1	2		4	2		3	4	2			108
95-96	13	41	20	5	3	4	5	2	3	1	1	1		1	3	1	1				105
96-97		13	46	14	7	8	3	6	3	3	2	1	1		1	2	1	1		2	114
97-98			11	43	15	11	6	4	6		1	1	1	5	2	3			1		110
98-99				16	56	12	8	7	1	4	5	3	2	4	5	2	2	1		1	129
99-00					15	36	10	6	5	4	3	2	1	3	2	2		5			94
00-01						20	58	8	7	4	3	4	4	1	2	1	1	2		1	116
01-02							16	50	15	8	6	8	6	4	2	1	1	3	1	2	123
02-03								32	57	13	8	4	4	9	6	6	1	7	3	1	151
03-04									24	55	13	6	6	6	4	7	5	4	4	2	136
04-05										21	70	15	17	7	12	6	4	5	4	1	162
05-06											28	43	28	13	8	8	4	10	5	5	152
06-07												19	70	13	16	11	8	6	3	4	150
07-08													23	52	31	16	13	10	3	2	150
08-09														28	81	28	14	12	7	9	179
09-10															37	91	20	14	11	5	178
10-11																48	98	28	16	11	201
11-12																	31	93	20	17	161
12-13																		52	90	30	172
13-14																			50	112	162
14-15																				38	38
Total	54	69	89	82	104	93	109	116	125	114	142	107	167	148	212	236	208	255	218	243	2,891

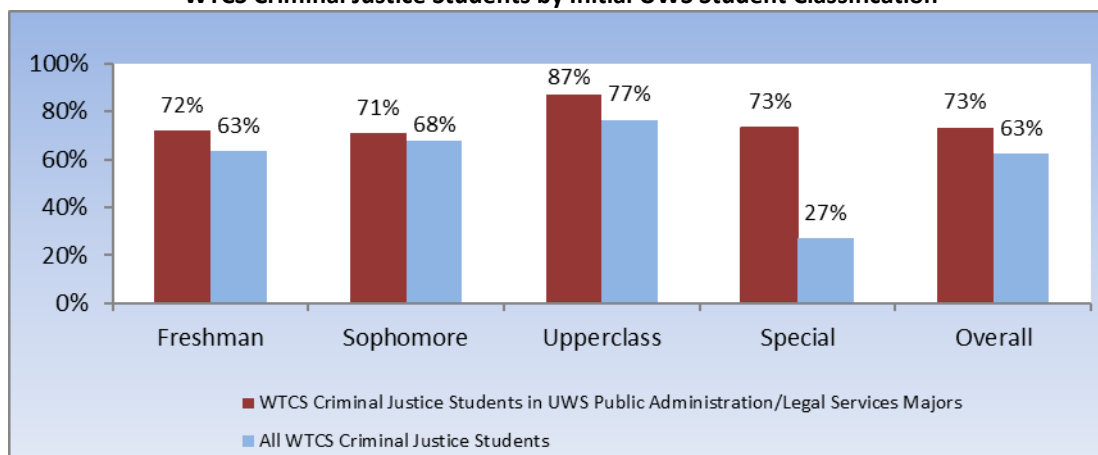
WTCS Criminal Justice students in the cohort pursued two principal types of majors at the UWS (Table 17). One group of students (38% of the students with declared majors) enrolled in majors in the Public Administration/Legal Services area. These students typically majored in Criminal Justice at the UW institution. A second group of criminal justice students (18% of the students with declared majors) enrolled in UWS majors in the Social Sciences area. In addition, criminal justice students enrolled in a variety of UWS major groups, including Business, Humanities/Liberal Arts, and Health-Related Professions.

Table 17
WTCS/UWS Assessment Cohorts
WTCS Criminal Justice Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Nat Resources (01)	45	2%	2%
Biological/Physical Sciences (02)	60	2%	3%
Business (03)	195	7%	10%
Communications/Arts (04)	61	2%	3%
Education (05)	115	4%	6%
Engineering & Architecture (06)	14	0%	1%
Health-Related Professions (07)	130	4%	7%
Home Economics/Personal Services (08)	9	0%	0%
Humanities/Liberal Arts (09)	193	7%	10%
Math, Computer & Info Sciences (10)	23	1%	1%
Public Admin/Legal Services (11)	714	25%	38%
Social Sciences (12)	341	12%	18%
Total with Declared Major	1,900	66%	100%
Undeclared	991	34%	
Total	2,891	100%	

WTCS criminal justice students who declared a UWS major in the Public Administration/Legal Services area had an overall second year retention rate of 73 percent (Figure 15). This compares to 63 percent for all WTCS criminal justice students in the assessment study. See Appendix G for details.

Figure 15
Second Year Retention for WTCS/UWS Assessment Cohorts
WTCS Criminal Justice Students by Initial UWS Student Classification



Within the assessment cohorts who enrolled in the UWS from 1995-96 to 2010-11 as degree-seeking students, WTCS criminal justice students who declared a UWS major in the Public Administration/Legal Services area had a six-year graduation rate of 42 percent, compared to 27 percent for WTCS criminal justice students as a group. See Appendix H for details.

The average first year GPA for WTCS criminal justice students varied from 2.4 to 2.7 from 1995-96 to 2014-15. In general, WTCS criminal justice students had a lower average first year GPA than students in the overall assessment group. Appendix I shows their average first year GPA in selected years and overall.

A distinct path is shown from WTCS Criminal Justice programs to UWS Criminal Justice majors with 29 percent of the students in the UWS Criminal Justice majors in the assessment cohort coming from WTCS Criminal Justice programs (Table 18). Liberal Arts students were also a source of UWS Criminal Justice majors. Two WTCS program groups, Health and Business, contributed 14 percent to the UWS criminal justice students in the assessment cohort.

Table 18
WTCS/UWS Assessment Cohorts
WTCS Source Programs for UWS Criminal Justice Majors

WTCS Program/Program Group	# of Students	% of Total	% of Total with Declared Major
Police Science/Criminal Justice	584	29%	49%
Liberal Arts	150	8%	13%
Health Programs	150	8%	13%
Business Programs	113	6%	10%
Other Public Admin/Legal Services Programs	63	3%	5%
Other Programs	123	6%	10%
Total with Declared Major	1,183	59%	100%
Undeclared	810	41%	
Total	1,993	100%	

Accounting

The 2017 assessment cohort includes 2,093 students who were enrolled in WTCS Accounting applied associate degree programs between 1994-95 and 2014-15 and subsequently enrolled at a UW institution (Table 19). Refer to Appendix T for enrollment of students in WTCS Accounting programs by WTCS institution and UWS institution. Appendix U summarizes WTCS/UWS transfer agreements for WTCS Accounting programs.

Table 19
WTCS/UWS Assessment Cohorts
WTCS Accounting Students by Last WTCS and Initial UWS Enrollment Years

Last WTCS Year	UWS Cohort Year																			Total	
	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14		14-15
94-95	31	15	11	10	6	4	2	5	2	2		1	1		4	2	2	2			100
95-96	15	52	12	9	6	8	5	2	2	3	1		3	1	5		2	1	1	1	129
96-97		14	37	12	7	12	2	4	3	4		3	1		2	1		2	2		106
97-98			10	35	15	4		4	1	2		2	2		4	2	1	4		1	87
98-99				10	24	8	9	11	2	3	3	1	3	1	3	2		1			81
99-00					17	32	19	3	4	3	7	4	3	3	3		3	1	3		105
00-01						17	36	9	6	8	7		6	3	1	2		2		1	98
01-02							22	40	5	5	1	8	4	5	3	3	2			3	101
02-03								25	43	21	8	1	4		2	3	1	2	1	1	112
03-04									22	47	9	8	9	6	3	2	6	6	2		120
04-05										27	54	16	12	8	6	2	3	5	2	1	136
05-06											21	41	5	11	8	7	4	6	7	2	112
06-07												12	55	12	11	8	8	7	1	4	118
07-08													27	68	19	7	7	8	4	2	142
08-09														14	50	8	11	8	4	6	101
09-10															22	70	18	5	4	4	123
10-11																31	50	12	10	6	109
11-12																	20	30	9	8	67
12-13																		18	44	10	72
13-14																			15	43	58
14-15																				16	16
Total	46	81	70	76	75	85	95	103	90	125	111	97	135	132	146	150	138	120	109	109	2,093

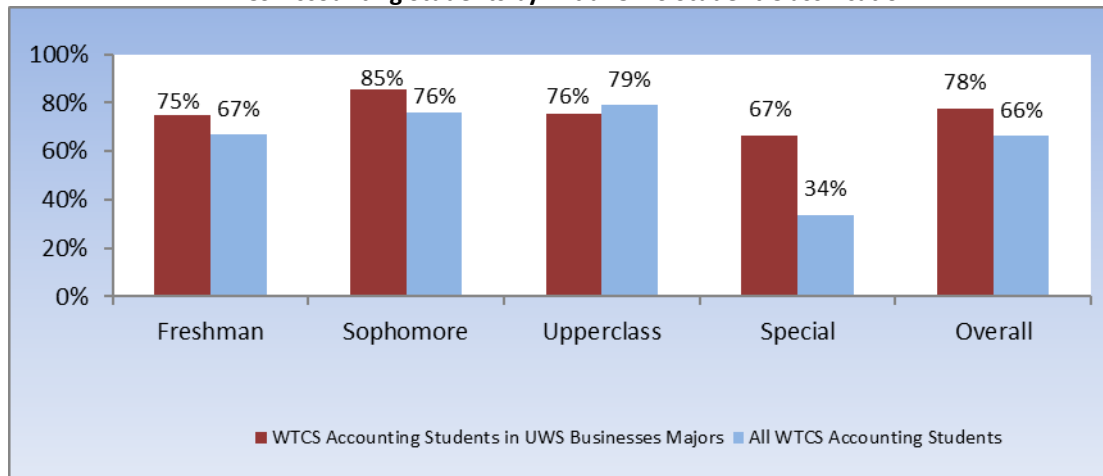
The majority of WTCS Accounting applied associate degree students in the cohort enrolled in the UWS Business area (58% of the students with declared majors). These students typically majored in Accounting at the UWS.

Table 20
WTCS/UWS Assessment Cohorts
WTCS Accounting Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Nat Resources (01)	13	1%	1%
Biological/Physical Sciences (02)	36	2%	3%
Business (03)	783	37%	58%
Communications/Arts (04)	41	2%	3%
Education (05)	96	5%	7%
Engineering & Architecture (06)	7	0%	1%
Health-Related Professions (07)	66	3%	5%
Home Economics/Personal Services (08)	7	0%	1%
Humanities/Liberal Arts (09)	128	6%	10%
Math, Computer & Info Sciences (10)	40	2%	3%
Public Admin/Legal Services (11)	50	2%	4%
Social Sciences (12)	73	3%	5%
Total with Declared Major	1,340	64%	100%
Undeclared	753	36%	
Total	2,093	100%	

WTCS accounting students who declared a UWS major in the Business area had an overall second year retention rate of 78 percent (Figure 16). This compares to 66 percent for all WTCS accounting students in the assessment study. See Appendix G for details.

Figure 16
Second Year Retention for WTCS/UWS Assessment Cohorts
WTCS Accounting Students by Initial UWS Student Classification



Within the assessment cohorts who enrolled in the UWS from 1995-96 to 2010-11 as degree-seeking students, WTCS accounting students who declared a UWS major in the Business area had a six-year graduation rate of 47 percent, compared to 31 percent for WTCS accounting students as a group. See Appendix H for details.

The average first year GPA for WTCS accounting students varied from 2.5 to 3.1 from 1995-96 to 2014-15. Appendix I shows their average first year GPA in selected years and overall.

Students in a variety of WTCS programs later declared a UWS major in the Business area (Table 21). Within the cohort, students in WTCS Business programs, including Marketing, Accounting, and other Business programs, made up 25 percent of the students in UWS Business majors. Liberal Arts students (10%) were also a source of UWS Business majors (Table 21).

Table 21
WTCS/UWS Assessment Cohorts
WTCS Source Programs for UWS Business Majors

WTCS Program/Program Group	# of Students	% of Total	% of Total with Declared Major
Liberal Arts	1,280	10%	17%
Marketing	768	6%	10%
Accounting	783	6%	10%
Other Business Programs	1,713	13%	23%
Health Programs	708	5%	9%
Engineering Technology	453	3%	6%
Information Technology	394	3%	5%
Public Admin/Legal Services Programs	354	3%	5%
Other Programs	1,012	8%	14%
Total with Declared Major	7,465	57%	100%
Undeclared	5,634	43%	
Total	13,099	100%	

While Table 21 shows WTCS source programs for all UW Business majors, Table 22 presents WTCS source programs for students who declared a UWS Accounting major only after they came to the UWS. Twenty-one percent (21%) of UWS accounting students in the cohort were enrolled in WTCS Accounting programs.

Table 22
WTCS/UWS Assessment Cohorts
WTCS Source Programs for UWS Accounting Majors

WTCS Program/Program Group	# of Students	% of Total	% of Total with Declared Major
Accounting	339	21%	43%
Liberal Arts	143	9%	18%
Other Business Programs	104	7%	13%
Health	86	5%	11%
Other Programs	123	8%	15%
Total with Declared Major	795	50%	100%
Undeclared	789	50%	
Total	1,584	100%	

Engineering Technology

The 2017 assessment cohort includes 3,344 students who were enrolled in WTCS Engineering Technology applied associate degree programs between 1994-95 and 2014-15 and subsequently enrolled at a UW institution (Table 23). Refer to Appendix V for enrollment of students in WTCS Engineering Technology programs by WTCS institution and UWS institution. Appendix W summarizes WTCS/UWS transfer agreements for WTCS Engineering Technology programs.

Table 23
WTCS/UWS Assessment Cohorts

WTCS Engineering Technology Students by Last WTCS and Initial UWS Enrollment Years

Last WTCS Year	UWS Cohort Year																				Total	
	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15		
94-95	70	21	13	10	9	4	7	3	4	4	2	1	4	1	1	3	2	1	1		161	
95-96	17	63	23	22	14	8	8	4	2	6	6		3	2	2	2	2		1	2	187	
96-97		21	61	31	23	11	16	9	7	3	4	3	2	4	2	3	1	1	4	1	207	
97-98			24	71	29	13	14	9	8	9	3	1	2	1	9	6	2	3	1	1	206	
98-99				25	66	32	18	15	9	8	2	3	2	3	3	2	4	3	1	4	200	
99-00					26	76	19	14	15	7	2	3	7	4	6	2	1	5	2	1	190	
00-01						16	56	24	13	11	4	6	7	3	3	5	3	2	5	2	160	
01-02							28	67	26	15	6	16	2	3	6	7	3	1	5	1	186	
02-03								25	74	18	9	8	7	7	5	10	4	3	2	4	176	
03-04									24	80	20	9	14	10	5	5	4	5	3	6	185	
04-05										22	57	16	10	12	11	2	5	10	3	2	150	
05-06											31	72	31	14	8	10	11	7	1	3	188	
06-07												25	82	11	17	12	4	2	3	5	161	
07-08													33	54	23	24	3	6	3	3	149	
08-09														31	69	22	16	7	10	3	158	
09-10															29	81	15	7	11	2	145	
10-11																26	67	21	9	7	130	
11-12																	19	81	24	16	140	
12-13																		33	72	19	124	
13-14																			25	86	111	
14-15																					30	30
Total	87	105	121	159	167	160	166	170	182	183	146	163	206	160	199	222	166	198	186	198	3,344	

WTCS engineering technology students in the cohort pursued two principal types of majors at the UWS (Table 24). One group of students (30% of the students with declared majors) enrolled in majors in the Engineering & Architecture area. These students were typically enrolled in Engineering/Engineering Technology majors at the UW institution. A second group of the WTCS engineering technology students (25% of the students with declared majors) enrolled in the UWS Business area. In addition, WTCS Engineering Technology students enrolled in a variety of UWS major groups, including Education and Math, Computer & Information Sciences.

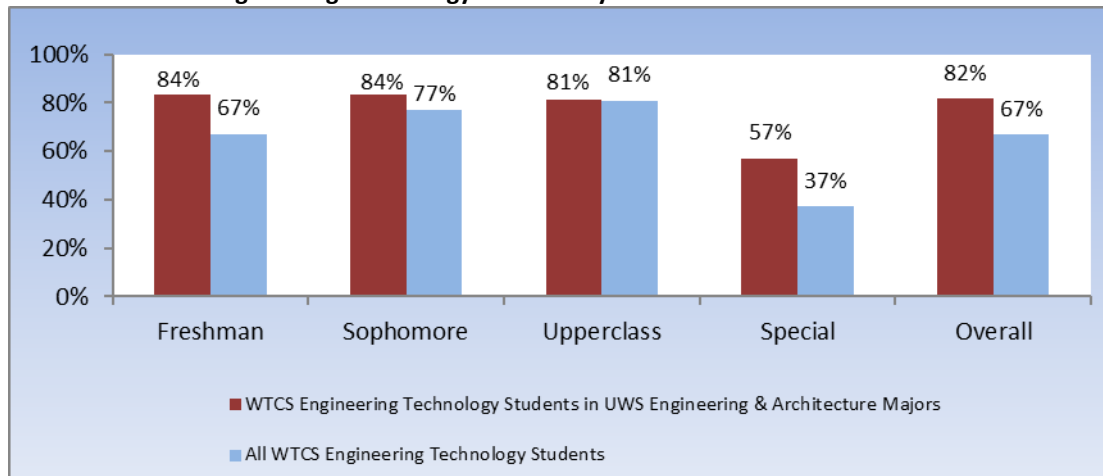
Table 24
WTCS/UWS Assessment Cohorts

WTCS Engineering Technology Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Nat Resources (01)	57	2%	3%
Biological/Physical Sciences (02)	75	2%	4%
Business (03)	446	13%	25%
Communications/Arts (04)	69	2%	4%
Education (05)	155	5%	9%
Engineering & Architecture (06)	542	16%	30%
Health-Related Professions (07)	48	1%	3%
Home Economics/Personal Services (08)	5	0%	0%
Humanities/Liberal Arts (09)	105	3%	6%
Math, Computer & Info Sciences (10)	162	5%	9%
Public Admin/Legal Services (11)	23	1%	1%
Social Sciences (12)	91	3%	5%
Total with Declared Major	1,778	53%	100%
Undeclared	1,566	47%	
Total	3,344	100%	

WTCS engineering technology students who declared a UWS major in the Engineering & Architecture area had an overall second year retention rate of 82 percent (Figure 17). This compares to 67 percent for all WTCS engineering technology students in the assessment study. See Appendix G for details.

Figure 17
Second Year Retention for WTCS/UWS Assessment Cohorts
WTCS Engineering Technology Students by Initial UWS Student Classification



Within the assessment cohorts who enrolled in the UWS from 1995-96 to 2010-11 as degree-seeking students, WTCS engineering technology students who declared a UWS major in the Engineering & Architecture area had a six-year graduation rate of 51 percent, compared to 29 percent for WTCS engineering technology students as a group. See Appendix H for details

The average first year GPA for WTCS engineering technology students varied from 2.2 to 3.1 from 1995-96 to 2014-15. Appendix I shows their average first year GPA in selected years and overall.

A distinct path is shown from WTCS Engineering Technology programs to UWS Engineering/Engineering Technology majors with 18 percent of the students in UWS Engineering/Engineering Technology in the study coming from WTCS Engineering Technology programs (Table 25). Fourteen percent (14%) of UWS engineering/engineering technology students in the cohort were in the WTCS Business, and 10 percent were in Liberal Arts programs.

Table 25
WTCS/UWS Assessment Cohorts
WTCS Source Programs for UWS Engineering/Engineering Technology Majors

WTCS Program/Program Group	# of Students	% of Total	% of Total with Declared Major
Engineering Technology	701	18%	30%
Business Programs	556	14%	24%
Liberal Arts	373	10%	16%
Trades/Technical Programs	229	6%	10%
Other Programs	477	12%	20%
Total with Declared Major	2,336	60%	100%
Undeclared	1,578	40%	
Total	3,914	100%	

Liberal Arts

The 2017 assessment cohort includes 13,497 students who were enrolled in WTCS Liberal Arts programs between 1994-95 and 2014-15 and subsequently enrolled at a UW institution (Table 26). Refer to Appendix X for enrollment of students in WTCS Liberal Arts programs by WTCS institution and UWS institution.

Table 26
WTCS/UWS Assessment Cohorts
WTCS Liberal Arts Students by Last WTCS and Initial UWS Enrollment Years

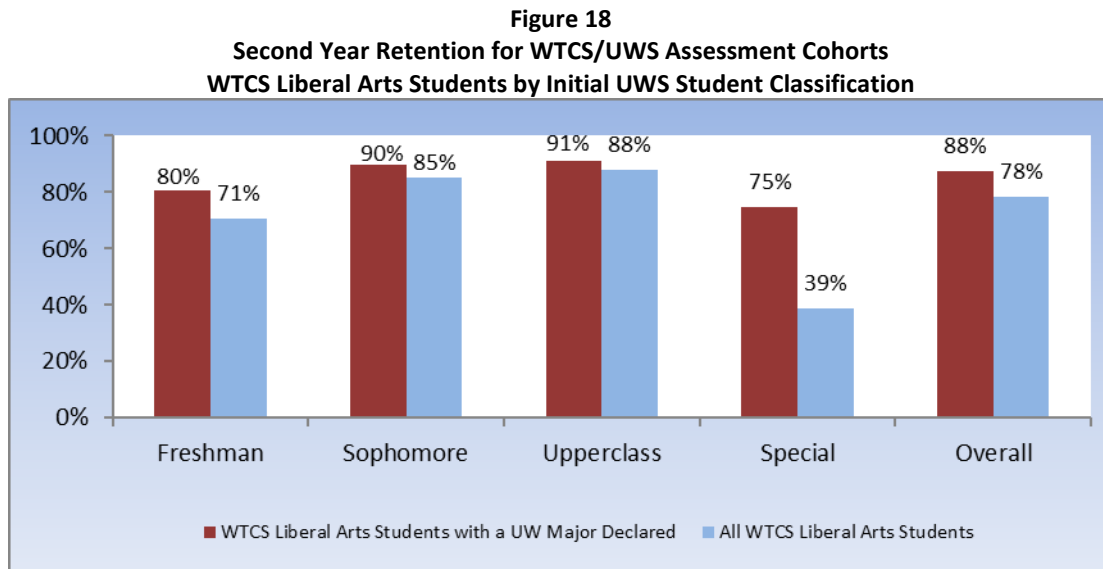
Last WTCS Year	UWS Cohort Year																			Total		
	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14		14-15	
94-95	420	36	13	15	13	8	4	4	3	3	1	3	1	1	2	2		1	2		532	
95-96	197	440	56	20	14	8	5	7	3	6	4	3	6	2	3	2	1	1	1		779	
96-97		188	397	49	15	14	11	11	5	5	1	7	5	1	4	3	3				719	
97-98			200	401	38	23	19	5	5	4	2	3	2	2		1	5	3	2		715	
98-99				170	362	43	23	16	13	1	1	4	2	1	5	5	1	4			651	
99-00					147	350	33	19	21	4	6	2	2	6	3	1	2	1	2	2	601	
00-01						153	350	44	17	12	8	7	11	6	6	2	2	6		1	625	
01-02							192	354	35	23	14	15	10	3	7	6	2	6	2	1	670	
02-03								145	310	40	22	11	2	5	7	10	4	2	2	5	565	
03-04									142	277	36	13	13	5	8	4	1	2	3	6	510	
04-05										146	311	35	13	13	10	3	7	8	3	3	552	
05-06											140	349	43	14	13	11	7	7	4	2	590	
06-07												174	305	35	23	17	8	8	4	7	581	
07-08													181	335	31	24	11	6	6	9	603	
08-09														211	388	44	14	8	10	4	679	
09-10															203	410	50	22	11	15	711	
10-11																202	415	48	22	14	701	
11-12																	249	490	50	29	818	
12-13																		304	533	50	887	
13-14																			240	483	723	
14-15																					285	285
Total	617	664	666	655	589	599	637	605	554	521	546	626	596	640	713	747	782	927	897	916	13,497	

WTCS Liberal Arts students in the cohort pursued a variety of majors at the UWS (Table 27). The top UWS major groups in which students initially enrolled were Social Sciences (12%), Business (12%), and Education (10%).

Table 27
WTCS/UWS Assessment Cohorts
WTCS Liberal Arts Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Nat Resources (01)	434	3%	4%
Biological/Physical Sciences (02)	773	6%	7%
Business (03)	1,565	12%	15%
Communications/Arts (04)	1,104	8%	11%
Education (05)	1,340	10%	13%
Engineering & Architecture (06)	526	4%	5%
Health-Related Professions (07)	1,048	8%	10%
Home Economics/Personal Services (08)	158	1%	2%
Humanities/Liberal Arts (09)	865	6%	8%
Math, Computer & Info Sciences (10)	367	3%	4%
Public Admin/Legal Services (11)	568	4%	5%
Social Sciences (12)	1,612	12%	16%
Total with Declared Major	10,360	77%	100%
Undeclared	3,137	23%	
Total	13,497	100%	

Liberal Arts students who declared a UW major had an overall second year retention rate of 88 percent at the UWS (Figure 18). This compares to 78 percent for all WTCS Liberal Arts students in the assessment study. See Appendix G for details.



Within the assessment cohorts who enrolled in the UWS from 1995-96 to 2010-11 as degree-seeking students, WTCS Liberal Arts students had a six-year graduation rate of 51 percent, compared to 38 percent for overall degree-seeking students in the assessment study. See Appendix H for details.

The average first year GPA for WTCS Liberal Arts students varied from 2.6 to 2.9 from 1995-96 to 2014-15. In general, WTCS Liberal Arts students had a comparable average first year GPA as students in the overall assessment group. Appendix I shows their average first year GPA in selected years and overall.

APPENDICES

Appendix A WTCS/UWS Assessment Cohorts by Initial UWS Enrollment Year and WTCS Institution UWS Cohort Year

WTCS Institution	UWS Cohort Year					Total	
	95-96	01-02	07-08	13-14	14-15	#	%
Blackhawk	39	109	132	166	115	2,476	2%
Chippewa Valley	69	305	385	516	618	6,851	6%
Fox Valley	151	409	569	614	571	9,196	8%
Gateway	135	285	456	630	691	7,797	7%
Lakeshore	60	158	211	223	279	3,534	3%
Madison	549	871	950	1,413	1,535	18,648	16%
Mid-State	66	248	247	370	348	4,705	4%
Milwaukee	691	924	756	1,230	1,333	18,756	16%
Moraine Park	57	233	302	429	428	5,264	5%
Nicolet	88	145	106	220	162	2,756	2%
Northcentral	75	269	379	796	848	7,041	6%
Northeast	97	376	573	767	850	9,315	8%
Southwest	28	101	209	164	200	2,775	2%
Waukesha	94	258	308	845	1,036	7,018	6%
Western	73	222	277	310	336	5,156	4%
WI Indianhead	56	256	318	376	435	5,061	4%
Total	2,328	5,169	6,178	9,069	9,785	116,349	100%

Note: Only selected UW cohort years are shown though total includes UW cohort years from 1995-96 through 2014-15.

Appendix B
WTCS/UWS Assessment Cohorts
by Initial UWS Enrollment Year, WTCS Program Type, and Degree Completion Status

UWS Cohort Year		Applied Associate Degree			Liberal Arts			Technical Diploma			Undeclared	Total		
		Deg.	No Deg.	Total	Deg.	No Deg.	Total	Deg.	No Deg.	Total	No Deg.	Deg.	No Deg.	Total
95-96	#	138	442	580	46	571	617	117	71	188	943	301	2,027	2,328
	%	24%	76%	100%	7%	93%	100%	62%	38%	100%	100%	13%	87%	100%
96-97	#	204	681	885	59	605	664	178	84	262	1,234	441	2,604	3,045
	%	23%	77%	100%	9%	91%	100%	68%	32%	100%	100%	14%	86%	100%
97-98	#	251	702	953	66	600	666	241	121	362	1,381	558	2,804	3,362
	%	26%	74%	100%	10%	90%	100%	67%	33%	100%	100%	17%	83%	100%
98-99	#	310	802	1,112	67	588	655	302	141	443	1,850	679	3,381	4,060
	%	28%	72%	100%	10%	90%	100%	68%	32%	100%	100%	17%	83%	100%
99-00	#	341	934	1,275	63	526	589	318	142	460	2,055	722	3,657	4,379
	%	27%	73%	100%	11%	89%	100%	69%	31%	100%	100%	16%	84%	100%
00-01	#	396	917	1,313	78	521	599	356	180	536	2,222	830	3,840	4,670
	%	30%	70%	100%	13%	87%	100%	66%	34%	100%	100%	18%	82%	100%
01-02	#	443	1,117	1,560	66	571	637	404	193	597	2,375	913	4,256	5,169
	%	28%	72%	100%	10%	90%	100%	68%	32%	100%	100%	18%	82%	100%
02-03	#	461	1,088	1,549	72	533	605	495	191	686	2,429	1,028	4,241	5,269
	%	30%	70%	100%	12%	88%	100%	72%	28%	100%	100%	20%	80%	100%
03-04	#	462	1,251	1,713	65	489	554	502	183	685	2,581	1,029	4,504	5,533
	%	27%	73%	100%	12%	88%	100%	73%	27%	100%	100%	19%	81%	100%
04-05	#	483	1,332	1,815	71	450	521	646	199	845	2,663	1,200	4,644	5,844
	%	27%	73%	100%	14%	86%	100%	76%	24%	100%	100%	21%	79%	100%
05-06	#	519	1,326	1,845	87	459	546	746	221	967	2,541	1,352	4,547	5,899
	%	28%	72%	100%	16%	84%	100%	77%	23%	100%	100%	23%	77%	100%
06-07	#	567	1,374	1,941	101	525	626	701	222	923	2,437	1,369	4,558	5,927
	%	29%	71%	100%	16%	84%	100%	76%	24%	100%	100%	23%	77%	100%
07-08	#	611	1,472	2,083	68	528	596	822	220	1,042	2,457	1,501	4,677	6,178
	%	29%	71%	100%	11%	89%	100%	79%	21%	100%	100%	24%	76%	100%
08-09	#	666	1,535	2,201	79	561	640	839	221	1,060	2,481	1,584	4,798	6,382
	%	30%	70%	100%	12%	88%	100%	79%	21%	100%	100%	25%	75%	100%
09-10	#	764	1,707	2,471	84	629	713	896	244	1,140	2,524	1,744	5,104	6,848
	%	31%	69%	100%	12%	88%	100%	79%	21%	100%	100%	25%	75%	100%
10-11	#	885	1,930	2,815	96	651	747	922	251	1,173	2,525	1,903	5,357	7,260
	%	31%	69%	100%	13%	87%	100%	79%	21%	100%	100%	26%	74%	100%
11-12	#	843	1,760	2,603	116	666	782	1,001	226	1,227	2,435	1,960	5,087	7,047
	%	32%	68%	100%	15%	85%	100%	82%	18%	100%	100%	28%	72%	100%
12-13	#	829	1,730	2,559	136	791	927	1,053	251	1,304	3,505	2,018	6,277	8,295
	%	32%	68%	100%	15%	85%	100%	81%	19%	100%	100%	24%	76%	100%
13-14	#	815	1,547	2,362	149	748	897	1,069	275	1,344	4,466	2,033	7,036	9,069
	%	35%	65%	100%	17%	83%	100%	80%	20%	100%	100%	22%	78%	100%
14-15	#	870	1,525	2,395	143	773	916	1,038	255	1,293	5,181	2,051	7,734	9,785
	%	36%	64%	100%	16%	84%	100%	80%	20%	100%	100%	21%	79%	100%
Total	#	10,858	25,172	36,030	1,712	11,785	13,497	12,646	3,891	16,537	50,285	25,216	91,133	116,349
	%	30%	70%	100%	13%	87%	100%	76%	24%	100%	100%	22%	78%	100%

Appendix C
WTCS/UWS Assessment Cohorts
by Initial UWS Enrollment Year and Student Classification

UWS Cohort Year		Student Classification				Overall
		Freshman	Sophomore	Upperclass	Special	
1995-96	#	1,131	417	258	522	2,328
	%	49%	18%	11%	22%	100%
1996-97	#	1,550	476	318	701	3,045
	%	51%	16%	10%	23%	100%
1997-98	#	1,818	476	331	737	3,362
	%	54%	14%	10%	22%	100%
1998-99	#	2,328	529	409	794	4,060
	%	57%	13%	10%	20%	100%
1999-00	#	2,586	545	349	899	4,379
	%	59%	12%	8%	21%	100%
2000-01	#	2,723	549	396	1,002	4,670
	%	58%	12%	8%	21%	100%
2001-02	#	3,071	576	455	1,067	5,169
	%	59%	11%	9%	21%	100%
2002-03	#	3,181	615	431	1,042	5,269
	%	60%	12%	8%	20%	100%
2003-04	#	3,464	645	495	929	5,533
	%	63%	12%	9%	17%	100%
2004-05	#	3,668	697	497	982	5,844
	%	63%	12%	9%	17%	100%
2005-06	#	3,685	755	534	925	5,899
	%	62%	13%	9%	16%	100%
2006-07	#	3,582	796	717	832	5,927
	%	60%	13%	12%	14%	100%
2007-08	#	3,708	861	739	870	6,178
	%	60%	14%	12%	14%	100%
2008-09	#	3,697	928	936	821	6,382
	%	58%	15%	15%	13%	100%
2009-10	#	3,919	1,111	1,009	809	6,848
	%	57%	16%	15%	12%	100%
2010-11	#	4,068	1,267	1,124	801	7,260
	%	56%	17%	15%	11%	100%
2011-12	#	3,774	1,324	1,264	685	7,047
	%	54%	19%	18%	10%	100%
2012-13	#	5,011	1,335	1,216	733	8,295
	%	60%	16%	15%	9%	100%
2013-14	#	5,709	1,373	1,315	672	9,069
	%	63%	15%	14%	7%	100%
2014-15	#	6,218	1,416	1,397	754	9,785
	%	64%	14%	14%	8%	100%
Total	#	68,891	16,691	14,190	16,577	116,349
	%	59%	14%	12%	14%	100%

Appendix D
WTCS/UWS Assessment Cohorts
by WTCS Program Type, WTCS Degree Completion Status,
and Initial UWS Student Classification

Program Type		Classification	95-96		01-02		07-08		13-14		14-15		Overall	
			#	%	#	%	#	%	#	%	#	%	#	%
Applied Associate Degree	Degree	Freshman	56	41%	178	40%	195	32%	152	19%	145	17%	3,354	31%
		Sophomore	35	25%	71	16%	150	25%	198	24%	183	21%	2,335	22%
		Upperclass	27	20%	94	21%	184	30%	395	48%	450	52%	3,761	35%
		Special	20	14%	100	23%	82	13%	70	9%	92	11%	1,408	13%
		Sub-Total	138	100%	443	100%	611	100%	815	100%	870	100%	10,858	100%
	No Degree	Freshman	289	65%	749	67%	867	59%	772	50%	704	46%	14,732	59%
		Sophomore	37	8%	115	10%	271	18%	402	26%	394	26%	4,450	18%
		Upperclass	15	3%	53	5%	144	10%	252	16%	300	20%	2,588	10%
		Special	101	23%	200	18%	190	13%	121	8%	127	8%	3,402	14%
		Sub-Total	442	100%	1,117	100%	1,472	100%	1,547	100%	1,525	100%	25,172	100%
	Total		580		1,560		2,083		2,362		2,395		36,030	
Liberal Arts	Degree	Freshman			2	3%	2	3%	1	1%	1	1%	24	1%
		Sophomore	1	2%	4	6%	1	1%	9	6%	8	6%	113	7%
		Upperclass	44	96%	59	89%	63	93%	138	93%	127	89%	1,496	87%
		Special	1	2%	1	2%	2	3%	1	1%	7	5%	79	5%
		Sub-Total	46	100%	66	100%	68	100%	149	100%	143	100%	1,712	100%
	No Degree	Freshman	187	33%	198	35%	154	29%	184	25%	174	23%	3,620	31%
		Sophomore	243	43%	228	40%	181	34%	305	41%	317	41%	4,682	40%
		Upperclass	94	16%	88	15%	132	25%	203	27%	218	28%	2,433	21%
		Special	47	8%	57	10%	61	12%	56	7%	64	8%	1,050	9%
		Sub-Total	571	100%	571	100%	528	100%	748	100%	773	100%	11,785	100%
	Total		617		637		596		897		916		13,497	

Note: Only selected UW cohort years are shown though overall includes UW cohort years from 1995-96 through 2014-15.

Appendix E
WTCS/UWS Assessment Cohorts
by Initial UWS Entrance Status and Institution

UW Institution	Transfer		New Degree-Seeking		New Special		Re-Entry/ Continuing		Overall
	#	%	#	%	#	%	#	%	
UW-Madison	4,811	44%	3,740	34%	1,972	18%	341	3%	10,864
UW-Milwaukee	11,200	54%	4,714	23%	3,289	16%	1,698	8%	20,901
UW-Eau Claire	2,251	40%	2,837	50%	487	9%	120	2%	5,695
UW-Green Bay	4,343	63%	1,788	26%	465	7%	324	5%	6,920
UW-La Crosse	2,500	45%	2,444	44%	551	10%	100	2%	5,595
UW-Oshkosh	4,356	50%	3,750	43%	412	5%	273	3%	8,791
UW-Parkside	2,647	51%	1,552	30%	652	13%	355	7%	5,206
UW-Platteville	1,379	30%	2,364	51%	526	11%	373	8%	4,642
UW-River Falls	914	41%	1,116	50%	156	7%	43	2%	2,229
UW-Stevens Point	2,977	52%	1,991	35%	600	11%	140	2%	5,708
UW-Stout	5,195	68%	1,747	23%	301	4%	416	5%	7,659
UW-Superior	1,347	66%	451	22%	152	7%	94	5%	2,044
UW-Whitewater	3,304	54%	2,269	37%	315	5%	236	4%	6,124
UW Colleges	7,474	31%	11,012	46%	4,407	18%	1,078	4%	23,971
UW System Total	54,698	47%	41,775	36%	14,285	12%	5,591	5%	116,349

Note: "Transfers" include (1) new students with transfer work, who had not previously enrolled at the UW institution and (2) re-entry students, who re-enrolled at the UW with transfer work.

"New Degree-Seeking" students were new to the UW institution, initially enrolling with no transfer work.

"New Specials" may have enrolled at the UW with no intent of seeking a degree.

"Re-entry" students re-enrolled at the UW institution with no transfer work; "Continuing" students were enrolled at both a WTCS and UW institution during the same year.

Appendix F
Second Year Retention for WTCS/UWS Assessment Cohorts
by Initial UWS Enrollment Year and Student Classification

UWS Cohort Year	Student Classification	# in Cohort	Retained to 2nd Year	
			#	%
1995-96	Freshman	1,131	767	68%
	Sophomore	417	324	78%
	Upperclass	258	197	76%
	Special	522	145	28%
	Total	2,328	1,433	62%
2001-02	Freshman	3,071	2,149	70%
	Sophomore	576	435	76%
	Upperclass	455	379	83%
	Special	1,067	365	34%
	Total	5,169	3,328	64%
2007-08	Freshman	3,708	2,661	72%
	Sophomore	861	669	78%
	Upperclass	739	589	80%
	Special	870	273	31%
	Total	6,178	4,192	68%
2013-14	Freshman	5,709	4,470	78%
	Sophomore	1,373	1,080	79%
	Upperclass	1,315	1,032	78%
	Special	672	192	29%
	Total	9,069	6,774	75%
2014-15	Freshman	6,218	4,915	79%
	Sophomore	1,416	1,117	79%
	Upperclass	1,397	1,090	78%
	Special	754	219	29%
	Total	9,785	7,341	75%
Overall*	Freshman	68,891	50,300	73%
	Sophomore	16,691	13,106	79%
	Upperclass	14,190	11,367	80%
	Special	16,577	5,189	31%
	Total	116,349	79,962	69%

*Includes UWS cohort years from 1995-96 through 2014-15.

Appendix G
Second Year Retention for WTCS/UWS Assessment Cohorts
for Specific Program Groups by Initial UWS Student Classification

WTCS Program Type	Student Classification	# in Cohort	Retained to 2nd Year		# in Cohort	Retained to 2nd Year	
			#	%		#	%
Nursing		All WTCS Nursing AD Students			WTCS Nursing AD Students in UWS Health-Related Majors		
	Freshman	1,206	728	60%	310	214	69%
	Sophomore	638	424	66%	332	240	72%
	Upperclass	918	666	73%	810	586	72%
	Special	858	252	29%	44	32	73%
	Total	3,620	2,070	57%	1,496	1,072	72%
Early Child Education		All WTCS Early Childhood Education Students			WTCS Early Childhood Education Students in UWS Education Majors		
	Freshman	699	446	64%	238	171	72%
	Sophomore	434	343	79%	299	246	82%
	Upperclass	284	226	80%	191	153	80%
	Special	276	91	33%	33	21	64%
	Total	1,693	1,106	65%	761	591	78%
Information Technology (IT)		All WTCS IT Students			WTCS IT Students in UWS Business & Math, Computer & Info Sciences Majors		
	Freshman	1,773	1,165	66%	541	387	72%
	Sophomore	473	352	74%	250	193	77%
	Upperclass	663	510	77%	447	350	78%
	Special	431	149	35%	32	20	63%
	Total	3,340	2,176	65%	1,270	950	75%
Marketing		All WTCS Marketing Students			WTCS Marketing Students in UWS Business & Marketing Ed Majors		
	Freshman	1,533	1,046	68%	375	265	71%
	Sophomore	473	369	78%	209	172	82%
	Upperclass	431	353	82%	260	215	83%
	Special	277	84	30%	15	12	80%
	Total	2,714	1,852	68%	859	664	77%
Criminal Justice		All WTCS Criminal Justice Students			WTCS Criminal Justice Students in UWS Public Administration/Legal Services Majors		
	Freshman	1,621	1,026	63%	338	243	72%
	Sophomore	639	434	68%	276	196	71%
	Upperclass	355	272	77%	85	74	87%
	Special	276	75	27%	15	11	73%
	Total	2,891	1,807	63%	714	524	73%
Accounting		All WTCS Accounting Students			WTCS Accounting Students in UWS Business Majors		
	Freshman	1,120	748	67%	364	272	75%
	Sophomore	404	308	76%	232	198	85%
	Upperclass	315	249	79%	160	121	76%
	Special	254	86	34%	27	18	67%
	Total	2,093	1,391	66%	783	609	78%
Engineering Technology		All WTCS Engineering Technology Students			WTCS Engineering Technology Students in UWS Engineering & Architecture Majors		
	Freshman	1,787	1,202	67%	202	169	84%
	Sophomore	467	360	77%	171	143	84%
	Upperclass	616	499	81%	385	313	81%
	Special	474	176	37%	21	12	57%
	Total	3,344	2,237	67%	779	637	82%
Liberal Arts		All WTCS Liberal Arts Students			WTCS Liberal Arts Students with a UW Major Declared		
	Freshman	3,644	2,576	71%	2,452	1,973	80%
	Sophomore	4,795	4,077	85%	4,084	3,658	90%
	Upperclass	3,929	3,458	88%	3,525	3,211	91%
	Special	1,129	439	39%	299	223	75%
	Total	13,497	10,550	78%	10,360	9,065	88%

Appendix H
Six-Year Graduation Rate
for WTCS/UWS Assessment Cohorts*
for Specific Program Groups

WTCS Program Type		# in Cohort	Graduated in 6 Years	
			#	%
Nursing	All WTCS Nursing AD Students	1,810	481	27%
	WTCS Nursing AD Students in UWS Health-Related Majors	907	357	39%
Early Childhood Education	All WTCS Early Childhood Education Students	900	315	35%
	WTCS Early Childhood Education Students in UWS Education Majors	455	217	48%
Information Technology (IT)	All WTCS Information Technology (IT) Students	2,149	658	31%
	WTCS IT Students in UWS Business or Math, Computer & Information Sciences Majors	847	397	47%
Marketing	All WTCS Marketing Students	2,032	718	35%
	WTCS Marketing Students in UWS Business & Marketing Ed Majors	712	355	50%
Criminal Justice	All WTCS Criminal Justice Students	1,763	478	27%
	WTCS Criminal Justice Students in UWS Public Administration/Legal Services Majors	429	179	42%
Accounting	All WTCS Accounting Students	1,395	434	31%
	WTCS Accounting Students in UWS Business Majors	569	267	47%
Engineering Technology	All WTCS Engineering Technology Students	2,201	630	29%
	WTCS Engineering Technology Students in UWS Engineering & Architecture Majors	579	297	51%
Liberal Arts		9,109	4,618	51%
Overall		80,216	30,799	38%

*Includes 1995-96 to 2010-11 degree-seeking students only.

Appendix I
Average First Year GPA for WTCS/UWS Assessment Cohorts
for Specific Program Groups by Initial UWS Enrollment Year

WTCS Program Type		95-96	01-02	07-08	13-14	14-15	Overall
Nursing	# in Cohort	36	123	209	289	299	3,620
	1st Year GPA	2.9	3.0	2.9	3.2	3.1	3.0
Early Childhood Education	# in Cohort	9	56	116	135	149	1,693
	1st Year GPA	2.9	3.1	3.0	3.0	3.0	2.9
Information Technology (IT)	# in Cohort	35	192	182	177	184	3,340
	1st Year GPA	2.9	2.8	2.8	3.0	3.0	2.8
Marketing	# in Cohort	53	171	166	89	83	2,714
	1st Year GPA	2.5	2.7	2.6	2.9	2.8	2.7
Criminal Justice	# in Cohort	54	109	167	218	243	2,891
	1st Year GPA	2.6	2.7	2.4	2.7	2.6	2.6
Accounting	# in Cohort	46	95	135	109	109	2,093
	1st Year GPA	3.0	2.9	2.8	2.8	3.1	2.8
Engineering Technology	# in Cohort	87	166	206	186	198	3,344
	1st Year GPA	2.2	2.9	2.7	3.0	3.0	2.8
Liberal Arts	# in Cohort	617	637	596	897	916	13,497
	1st Year GPA	2.6	2.8	2.7	2.9	2.9	2.8
Overall	# in Cohort	2,328	5,169	6,178	9,069	9,785	116,349
	1st Year GPA	2.7	2.8	2.8	3.0	3.0	2.8

Note: Only selected UW cohort years are shown though overall includes UW cohort years from 1995-96 through 2014-15.

Appendix J
WTCS/UWS Assessment Cohorts
Students in WTCS Nursing Applied Associate Degree Programs
Enrollment by WTCS Institution and UWS Institution

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC	TOTAL
Blackhawk	10	9	1	4		8	1	5		2	2		12	110	164
Chippewa Valley	1	1	133	23	3	1		2	13	4	24	3	1	30	239
Fox Valley	6	5	3	67	1	150	3		1	12	3			71	322
Gateway	4	97	1	13	1	9	194	2		1	1		18	21	362
Lakeshore	1	9	1	43	1	38	1			2				141	237
Madison	116	20	3	13	1	19	1	1		2	1	1	6	39	223
Mid-State	3	2	12	6		33				61		1		67	185
Milwaukee	5	292	1	9		13	10			1			3	27	361
Moraine Park	6	33		7		55		1		4	2		1	114	223
Nicolet	5	8	6	70	2	10		1	1	14	3	7	1	17	145
Northcentral	2	3	6	30	1	56		1		27	1	1	1	93	222
Northeast WI	3	4	2	201		16				15				54	295
Southwest WI	5	1		4	1		1	17		2				25	56
Waukesha	2	100	1	4	1	7	6			1	1		9	97	229
Western	11	7	14	16	85	12	3	2	3	6	7		2	30	198
WI Indianhead	4	1	42	14	3	6	1		12	2	11	26		37	159
*Overall Total	184	592	226	524	100	433	221	32	30	156	56	39	54	973	3,620
*Major-Specific Total	148	335	163	429	8	372	12			18	9	1	1		1,496

Note: Shaded areas indicate WTCS/UWS institutions with transfer agreements in nursing.

*Overall Total includes all WTCS Nursing Applied Associate Degree students who enrolled in the UWS; Major-Specific Total includes only WTCS Nursing Applied Associate Degree students enrolled in UWS Health-Related majors.

Appendix K
WTCS/UWS Program-to-Program Transfer Agreements
for WTCS Nursing Applied Associate Degree Programs

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC
Blackhawk	N1	N1	N1	N1		N1								
Chippewa Valley	N1	N1	N1	N1		N1								
Fox Valley	N1	N1	N1	N1		N1								
Gateway	N1	N1	N1	N1		N1								
Lakeshore	N1	N1	N1	N1		N1								
Madison	N1	N1	N1	N1		N1								
Mid-State	N1	N1	N1	N1		N1				N2				
Milwaukee	N1	N1	N1	N1		N1								
Moraine Park	N1	N1	N1	N1		N1								
Nicolet	N1	N1	N1	N1		N1								
Northcentral	N1	N1	N1	N1		N1				N2				
Northeast WI	N1	N1	N1	N1		N1								
Southwest WI	N1	N1	N1	N1		N1								
Waukesha	N1	N1	N1	N1		N1								
Western	N1	N1	N1	N1		N1								
WI Indianhead	N1	N1	N1	N1		N1								

N1 = WTCS Nursing Applied Associate Degree to UWS Collaborative Nursing (2010 Rev)

N2 = WTCS Nursing Applied Associate Degree to UW-Stevens Point Nursing (2015)

Note: In addition to program-to-program agreements, UW institutions may also transfer specific WTCS nursing courses regardless of the student's program or major.

Appendix L
WTCS/UWS Assessment Cohorts
Students in WTCS Early Childhood Education Programs
Enrollment by WTCS Institution and UWS Institution

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC	TOTAL
Blackhawk	1	7						19		1	3	2	50	33	116
Chippewa Valley		1	4	1	1			1	4		36		1		49
Fox Valley		7		15		108	1	1		5	16	2		48	203
Gateway		20		1	1		46	1		2	3	1	23	4	102
Lakeshore		9				9		1			1		1	17	38
Madison	21	15	2	1		7		14	2	1	3	3	26	8	103
Mid-State		2			1	5		2	4	33	2	1	7	10	67
Milwaukee	2	177				3	4	3			3	1	11	6	210
Moraine Park		7		1	1	20		2	2		1	3	3	32	72
Nicolet		1	1	4		3		2	1	27	6	28	1	3	77
Northcentral		3	3	6	1	4	1			23	11	9	1	33	95
Northeast WI		9	1	55	3	21		2	2	4	6	10	6	8	127
Southwest WI	1	3			2			33	1			2	2	6	50
Waukesha		50		2		3		1		2	1	1	34	43	137
Western		1	3		38		1	5	4	1	8	3	2	7	73
WI Indianhead		1	3	1	2	1		4	45		47	56	1	13	174
*Overall Total	25	313	17	87	50	184	53	91	65	99	147	122	169	271	1,693
*Major-Specific Total	3	147	6	4	22	137	4	32	52	58	81	76	139		761

Note: Shaded areas indicate WTCS/UWS institutions with transfer agreements in early childhood education.

*Overall Total includes all WTCS Early Childhood Education students who enrolled in the UWS; Major-Specific Total includes only WTCS Early Childhood Education students enrolled in UWS Education majors.

Appendix M
WTCS/UWS Program-to-Program Transfer Agreements
for WTCS Early Childhood Education Program

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC
Blackhawk		E1			E3	E4			E6	E7	E8		E9	
Chippewa Valley		E1			E3	E4			E6	E7	E8		E9	
Fox Valley		E1			E3	E4			E6	E7	E8		E9	
Gateway		E1			E3	E4			E6	E7	E8		E9	
Lakeshore		E1			E3	E4			E6	E7	E8		E9	
Madison		E1			E3	E4			E6	E7	E8		E9	
Mid-State		E1			E3	E4			E6	E7	E8		E9	
Milwaukee		E1			E3	E4			E6	E7	E8		E9	
Moraine Park		E1			E3	E4			E6	E7	E8		E9	
Nicolet		E1			E3	E4			E6	E7	E8		E9	
Northcentral		E1			E3	E4			E6	E7	E8		E9	
Northeast WI		E1		E2	E3	E4			E6	E7	E8		E9	
Southwest WI		E1			E3	E4		E5	E6	E7	E8		E9	
Waukesha		E1			E3	E4			E6	E7	E8		E9	
Western		E1			E3	E4			E6	E7	E8		E9	
WI Indianhead		E1			E3	E4			E6	E7	E8		E9	

E1 = WTCS Early Childhood Education to UW-Milwaukee Education (Early Childhood Ed)/Community Engagement and Ed (2001, 2013 Rev)

E2 = WTCS Early Childhood Education to UW-Green Bay Education (Early Childhood licensure program)/Education (Early Childhood/Mid-Childhood License Program) (2009 Rev, 2016 Rev)

E3 = WTCS Early Childhood Education to UW-La Crosse Education (Early-Middle Childhood) (2007)

E4 = WTCS Early Childhood Education to UW-Oshkosh Elementary Ed (Licensure in Early to Middle Childhood & Early Childhood Spec Ed) (2008 Rev)

E5 = WTCS Early Childhood Education to UW-Platteville Elementary Education (Early Childhood) (2006 Rev)

E6 = WTCS Early Childhood Education to UW-River Falls Elementary Education (Early Child Minor) (2013 Rev)

E7 = WTCS Early Childhood Education to UW-Stevens Point Early Childhood Education (2013 Rev)

E8 = WTCS Early Childhood Education to UW-Stout Early Childhood Education (2015)

E9 = WTCS Early Childhood Education to UW-Whitewater Early Childhood Education (2011 Rev)

Note: In addition to program-to-program agreements, UW institutions may also transfer specific WTCS early childhood education courses regardless of the student's program or major.

Appendix N
WTCS/UWS Assessment Cohorts
Students in WTCS Information Technology (IT) Programs
Enrollment by WTCS Institution and UWS Institution

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC	TOTAL
Blackhawk	4	2				1		7	1	1	7		17	60	100
Chippewa Valley	1	6	67	4	3	1		2	13	3	182	4	1	15	302
Fox Valley	5	19		28	3	162	3	6	1	17	28		2	124	398
Gateway	1	24	2	1	1	2	205	5		2	12	1	29	15	300
Lakeshore		5		8	1	2	1	1			18	1		69	106
Madison	84	27	4	4	5	10	5	23		8	21	3	40	29	263
Mid-State	1	3	6	4	3	6	1	2	1	87	9	1	1	32	157
Milwaukee	3	406	2	5	4	11	24	7		4	12		16	50	544
Moraine Park	1	11		6		23		2			12		2	63	120
Nicolet		3	1	3	1	3		2		8	17	2	4	4	48
Northcentral		10	7	4	1	5	1	4		24	58	1	3	71	189
Northeast WI	1	9	2	95	1	19		2		5	11	1	1	36	183
Southwest WI					3			36		1	3		2	20	65
Waukesha	3	106	1	3	1		6	4	1	4	19		17	78	243
Western	1	7	4		99	2		7	1	3	30	2	2	11	169
WI Indianhead	1	2	4					1	22	2	45	52		24	153
*Overall Total	106	640	100	165	126	247	246	111	40	169	484	68	137	701	3,340
*Major-Specific Total	9	330	36	35	54	75	98	49	17	84	383	27	73		1,270

Note: Shaded areas indicate WTCS/UWS institutions with transfer agreements in Information Technology (IT).

*Overall Total includes all WTCS Information Technology (IT) students who enrolled in the UWS; Major-Specific Total includes only WTCS IT students enrolled in UWS Business or Math, Computer & Information Sciences majors.

Appendix O
WTCS/UWS Program-to-Program Transfer Agreements
for WTCS Information Technology (IT) Programs

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC
Blackhawk		C1									C5			
Chippewa Valley		C1							C4		C5			
Fox Valley		C1									C5			
Gateway		C1					C3				C5			
Lakeshore		C1									C5			
Madison		C1									C5			
Mid-State		C1									C5			
Milwaukee		C1									C5			
Moraine Park		C1									C5			
Nicolet		C1									C5			
Northcentral		C1									C5			
Northeast WI		C1									C5			
Southwest WI		C1									C5			
Waukesha		C1									C5			
Western		C1			C2						C5			
WI Indianhead		C1							C4		C5			

C1 = WTCS Industrial Occupations and Certain Applied Associate Degrees (Including IT Programs) to UW-Milwaukee Information Science and Technology (2001, 2009)

C2 = WTCS Engineering Technology to UW-La Crosse Computer Science (Computer Engineering Technology Concentration) (2014 Rev)

C3 = WTCS Information Technology (IT) to UW-Parkside Business Programs (2015)

C4 = WTCS Information Technology (IT) to UW-River Falls Computer Science/Computer Info Systems & Business (2010 Rev, 2015)

C5 = WTCS Information Technology (IT) to UW-Stout Information and Communication Technology (2013)

Note: In addition to program-to-program agreements, UW institutions may also transfer specific WTCS information technology courses regardless of the student's program or major.

Appendix P
WTCS/UWS Assessment Cohorts
Students in WTCS Marketing Programs
Enrollment by WTCS Institution and UWS Institution

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC	TOTAL
Blackhawk		5				3		4			4	1	12	35	64
Chippewa Valley	1	6	98	1				3	11	6	240	4		14	384
Fox Valley		18	2	16	1	113	2	6		11	41	1	3	73	287
Gateway		20		1	2	5	132	2	1	1	12		26	7	209
Lakeshore	2	4		6		6				3	13		1	65	100
Madison	37	25	2	7	6	13	1	21	1	6	28		41	33	221
Mid-State		1	3			2	1		1	45	2	1		12	68
Milwaukee	2	114			3	9	11	4		2	7	1	4	13	170
Moraine Park	1	4		2	1	13	2	3			4		2	50	82
Nicolet		1	1	2				1		2		2		2	11
Northcentral		5	2	5	1	6	1	1	1	26	34	2		49	133
Northeast WI	1	23	2	179	1	30	2	1	1	8	23	1	1	20	293
Southwest WI								16			2			6	24
Waukesha	2	63	1	3		8	2	2	1	2	9		16	89	198
Western	5	12	3	5	236	4	2	8	3	8	45	3	3	22	359
WI Indianhead		1	3	1					16	2	29	38	1	20	111
*Overall Total	51	302	117	228	251	212	156	72	36	122	493	54	110	510	2,714
*Major-Specific Total	2	109	29	15	60	59	45	37	5	27	388	22	61		859

Note: Shaded areas indicate UWS/WTCS institutions with transfer agreements in marketing.

*Overall Total includes all WTCS Marketing students who enrolled in the UWS; Major-Specific Total includes only WTCS Marketing students enrolled in UWS Business or Marketing Education majors.

Appendix Q
WTCS/UWS Program-to-Program Transfer Agreements
for WTCS Marketing Programs

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC
Blackhawk														
Chippewa Valley														
Fox Valley														
Gateway							M1				M2			
Lakeshore														
Madison														
Mid-State														
Milwaukee														
Moraine Park														
Nicolet														
Northcentral														
Northeast WI														
Southwest WI														
Waukesha														
Western														
WI Indianhead														

M1 = WTCS Marketing to UW-Parkside Business Programs (2013)

M2 = WTCS Marketing to UW-Stout Marketing and Business Education (2016)

Note: In addition to program-to-program agreements, UW institutions may also transfer specific WTCS marketing courses regardless of the student's program or major.

Appendix R
WTCS/UWS Assessment Cohorts
Students in WTCS Criminal Justice Programs
Enrollment by WTCS Institution and UWS Institution

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC	TOTAL
Blackhawk	1	6		2		4	4	10		2	1	1	35	73	139
Chippewa Valley		2	65	1	3	3	1	6	18	4	94	9	1	17	224
Fox Valley	2	17	1	31	1	119	2	17	3	19	8	2	5	81	308
Gateway	1	31		1		9	215	8		1	2	2	26	11	307
Lakeshore		4		11	1	7		4		3	1			43	74
Madison	17	35	4	1	6	12	5	48		15	4	4	37	41	229
Mid-State		3	2	4	1	5		1		34	8	1		15	74
Milwaukee	2	338		5	1	7	31	5		5	1	2	10	24	431
Moraine Park	1	3		1		21	1	2		1	1		1	42	74
Nicolet		5	6	11		9	1	5	1	5	2	7		7	59
Northcentral	1	2	4	6	1	12	1	5	1	14	2	1	1	48	99
Northeast WI		21	2	223	3	44	4	7		8	2	1	1	36	352
Southwest WI					2	3		30						5	40
Waukesha	1	122	2	2	2	7	10	6	1	2	3		27	101	286
Western		2	4	1	49	6	2	11		4	7	3	1	5	95
WI Indianhead			7			1		1	6		20	39		26	100
*Overall Total	26	591	97	300	70	269	277	166	30	117	156	72	145	575	2,891
*Major-Specific Total	2	272	46	11	1	143	104	103	2	4	13	13	10		724

Note: Shaded areas indicate WTCS/UWS institutions with transfer agreements in criminal justice.

*Overall Total includes all WTCS Criminal Justice students who enrolled in the UWS; Major-Specific Total includes only WTCS Criminal Justice students enrolled in UWS Public Administration/Legal Services majors.

Appendix S
WTCS/UWS Program-to-Program Transfer Agreements
for WTCS Criminal Justice Programs

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC
Blackhawk						P2		P4					P7	
Chippewa Valley						P2			P5		P6		P7	
Fox Valley						P2							P7	
Gateway						P2	P3	P4					P7	
Lakeshore						P2		P4					P7	
Madison		P1				P2		P4					P7	
Mid-State						P2		P4			P6		P7	
Milwaukee		P1				P2		P4					P7	
Moraine Park						P2							P7	
Nicolet						P2							P7	
Northcentral						P2		P4					P7	
Northeast WI						P2							P7	
Southwest WI						P2							P7	
Waukesha		P1				P2		P4					P7	
Western						P2							P7	
WI Indianhead						P2							P7	

P1 = WTCS Criminal Justice to UW-Milwaukee Criminal Justice (2003, 2004, 2009 Rev)

P2 = WTCS Criminal Justice to UW-Oshkosh Human Services Leadership (2010)

P3 = WTCS Criminal Justice to UW-Parkside Criminal Justice (2015 Rev)

P4 = WTCS Criminal Justice to UW-Platteville Criminal Justice (2006)

P5 = WTCS Criminal Justice to UW-River Falls Sociology (Criminal Justice Minor) (2011)

P6 = WTCS Criminal Justice to UW-Stout Criminal Justice Rehabilitation (2011)

P7 = WTCS Criminal Justice to UW-Whitewater Criminology (2014)

Note: In addition to program-to-program agreements, UW institutions may also transfer specific WTCS criminal justice courses regardless of the student's program or major.

Appendix T
WTCS/UWS Assessment Cohorts
Students in WTCS Accounting Programs
Enrollment by WTCS Institution and UWS Institution

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC	TOTAL
Blackhawk	1	2				1	1	5		1	1	2	11	42	67
Chippewa Valley			80	2	2	1	1	3	17	3	47	1		14	171
Fox Valley		3	1	13	2	57	1	3		8	5	2	4	34	133
Gateway	1	14			1	2	138	4		1	7	1	40	11	220
Lakeshore		3		7		6		1		2	2	2	1	41	65
Madison	41	11	6	2	5	9	1	34		5	7	1	55	49	226
Mid-State			1	4	1			5		51	3		2	14	81
Milwaukee	1	232		9		5	9	3		4	1		13	16	293
Moraine Park		7		4	1	20	1	3		1	3	1	7	60	108
Nicolet	1	1	1	12		1		6		3		9	1	3	38
Northcentral			2	4	1	5	2	6		15	9	3	2	45	94
Northeast WI	1	4	1	108		8	1	2	1	4	5	1	5	48	189
Southwest WI	1		1		2			15						8	27
Waukesha	1	37		3		3	3	1			1	1	16	52	118
Western	2	1	5	1	72	2		6	4	2	17	2	7	15	136
WI Indianhead			2	2	1			5	27	2	16	50		22	127
*Overall Total	50	315	100	171	88	120	158	102	49	102	124	76	164	474	2,093
*Major-Specific Total	9	151	57	31	47	45	79	80	30	34	85	31	104		783

Note: Shaded areas indicate WTCS/UWS institutions with transfer agreements in accounting.

*Overall Total includes all WTCS Accounting students who enrolled in the UWS; Major-Specific Total includes only WTCS Accounting students enrolled in UWS Business majors.

Appendix U
WTCS/UWS Program-to-Program Transfer Agreements
for WTCS Accounting Programs

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC
Blackhawk														
Chippewa Valley														
Fox Valley														
Gateway							A1							
Lakeshore														
Madison														
Mid-State														
Milwaukee														
Moraine Park														
Nicolet														
Northcentral														
Northeast WI														
Southwest WI														
Waukesha														
Western														
WI Indianhead									A2					

A2=WTCS Accounting to UW-Parkside Business (2013)

A2=WTCS Accounting to UW-River Falls Business & Computer Information Systems (2010)

Note: In addition to program-to-program agreements, UW institutions may also transfer specific WTCS accounting courses regardless of the student's program or major.

Appendix V
WTCS/UWS Assessment Cohorts
Students in WTCS Engineering Technology Programs
Enrollment by WTCS Institution and UWS Institution

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC	TOTAL
Blackhawk		3			1	1		4			4		7	68	88
Chippewa Valley		3	54	2	2			4	5		120			7	197
Fox Valley	2	11	1	14	2	58	1	7		11	84	1		156	348
Gateway	2	30			1		109	4	1	1	19		15	17	199
Lakeshore	1	3	3	5		4		2		1	18			73	110
Madison	63	53	4	4	9	8	2	32	1	6	29	4	18	55	288
Mid-State	2	7	1	2	3	5	1	8	2	49	13	1		41	135
Milwaukee	8	300	1	5	4	7	22	8	1	6	25	3	5	51	446
Moraine Park	5	20	2	3	1	23	2	15	1	2	30		1	135	240
Nicolet				3	1			1	2		2			2	11
Northcentral	2	14	5	4	3	10	4	3	4	35	87	1	1	140	313
Northeast WI	2	25	3	97		22		11	3	19	59	1	1	90	333
Southwest WI	3	1			1			30			2		1	13	51
Waukesha	5	147	1	4		6	3	8	1	3	31	1	8	118	336
Western	1	6	3		79			11		2	23		3	12	140
WI Indianhead		4	3			1	1	1	12	1	54	10		22	109
*Overall Total	96	627	81	143	107	145	145	149	33	136	600	22	60	1,000	3,344
*Major-Specific Total	26	253					1	59		5	196		2		542

Note: Shaded areas indicate WTCS/UWS institutions with transfer agreements in engineering/engineering technology.

*Overall Total includes all WTCS Engineering Technology students who enrolled in the UWS; Major-Specific Total includes only WTCS Engineering Technology students enrolled in UWS Engineering & Architecture majors.

Appendix W
WTCS/UWS Program-to Program Transfer Agreements
for WTCS Engineering Technology Programs

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC
Blackhawk														
Chippewa Valley											T7			
Fox Valley				T2		T4								
Gateway							T5				T7			
Lakeshore				T2										
Madison														
Mid-State														
Milwaukee							T5							
Moraine Park				T2		T4		T6						
Nicolet														
Northcentral											T7			
Northeast WI				T2		T4								
Southwest WI														
Waukesha		T1												
Western					T3									
WI Indianhead														

T1 = WTCS Industrial Occupations/Engineering Technology to UW-Milwaukee Engineering (2001, 2009)

T2= WTCS Engineering Technology to UW-Green Bay Engineering Technology (2015)

T3 = WTCS Engineering Technology to UW-La Crosse Computer Science (Computer Engineering Technology Concentration) (2014 Rev)

T4= WTCS Engineering Technology to UW-Oshkosh Engineering Technology (2014, 2015)

T5= WTCS Engineering Technology to UW-Parkside Geosciences (2010)

T6 = WTCS Engineering Technology to UW-Platteville Industrial Technology Management (2000)

T7 = WTCS Engineering Technology to UW-Stout Manufacturing Engineering/Plastic Engineering/Applied Science - Materials and Nanoscience/Engineering Technology (Mechanical Design concentration)/ Technology Education/Engineering Technology (Electrical) (2014, 2015, 2017)

Note: In addition to program-to-program agreements, UW institutions may also transfer specific WTCS engineering technology courses regardless of the student's program or major.

Appendix X
WTCS/UWS Assessment Cohorts
Students in WTCS Liberal Arts Program
Enrollment by WTCS Institution and UWS Institution

WTCS Institution	MSN	MIL	EAU	GBY	LAC	OSH	PKS	PLT	RVF	STP	STO	SUP	WTW	UWC	TOTAL
Chippewa Valley	1	9	306	3	8	2	1	2	80	13	135	4		8	572
Madison	3,579	838	187	88	279	265	54	358	54	312	140	43	1,144	515	7,856
Milwaukee	84	2,886	11	26	34	89	160	30	4	54	39	9	170	236	3,832
Nicolet	63	60	63	80	36	74	4	20	28	262	91	65	27	70	943
Western	1	12	17	4	196	1		9	4	4	20	2	4	20	294
Overall Total	3,728	3,805	584	201	553	431	219	419	170	645	425	123	1,345	849	13,497

END NOTES

¹ The Data Exchange Memorandum of Understanding allows for the exchange of student and other records necessary for the evaluation of student transfers from the WTCS to the UWS. The data exchange sets a model for cooperation between the two Systems and is the key to the joint study. To date, the WTCS has provided the UWS with records for students who were enrolled in applied associate degree, liberal arts, and/or technical diploma courses at WTCS institutions in fiscal years 1994-95 through 2014-15. The data include demographic, program, and course records for each student. The WTCS data are matched to the UWS enrollment database to track the students through their UWS experience.

² The WTCS/UWS Assessment Cohort includes WTCS students who enrolled in FTE-generating courses in the applied associate degree, liberal arts, or technical diploma level in fiscal years 1994-95 through 2014-15. It excludes students who enrolled in WTCS courses as part of their high school curriculum ("high school specials"). Within the UWS, the cohort includes only students who enrolled at the undergraduate level, excluding high school specials. Students are also excluded from the study if they attended a UW institution first and later enrolled at a WTCS institution, and if this UWS enrollment was in the 1989-90 academic year or later.

³ Student classification is based on the total number of degree credits which may have been accumulated from one or more transfer institutions. In general, freshman students have 0-29 degree credits, sophomore students have between 30 and 59 degree credits, and upperclassmen have 60 or more degree credits.

⁴ Students are grouped into an academic year cohort based on their initial UWS enrollment year, combining summer, fall, winter, and spring term enrollees. They are counted as retained to a second year if they enrolled in any term in the following year or received a bachelor's degree in either their first or second enrollment year.

⁵ Classification of Instructional Programs (CIP) is the U.S. Department of Education's standard educational program classification system. Postsecondary institutions assign a CIP code to each of their programs for federal reporting purposes. The first two digits of the six digit CIP code designate a discipline area. For this report CIP discipline areas were combined into program groups as follows:

Group	Program/Major Group Title	CIP Areas in Group
1	Ag & Nat Resources	01 - Agriculture, Agriculture Operations, and Related Sciences
		03 - Natural Resources and Conservation
2	Biological/Physical Sciences	26 - Biological and Biomedical Sciences
		40 - Physical Sciences
		41 - Science Technologies/Technicians
3	Business	52 - Business, Management, Marketing, and Related Support Services
4	Communications/Arts	09 - Communications, Journalism, and Related Programs
		10 - Communications Technologies/Technicians and Support Services
		50 - Visual and Performing Arts
5	Education	13 - Education
6	Engineering & Architecture	14 - Engineering
		15 - Engineering Technologies/Technicians
		04 - Architecture and Related Services
7	Health-Related Professions	51 - Health Professions and Related Clinical Sciences
		31 - Parks, Recreation, Leisure and Fitness Studies
8	Home Economics/Personal Services	19 - Family and Consumer Sciences/Human Sciences
		12 - Personal & Culinary Services
9	Humanities/Liberal Arts	05 - Area, Ethnic, Cultural, and Gender Studies
		16 - Foreign Languages, Literatures, and Linguistics
		23 - English Language and Literature/Letters
		24 - Liberal Arts and Sciences, General Studies, and Humanities
		30 - Multi/Interdisciplinary Studies
		36 - Leisure and Recreational Activities (36.0113 Computer Simulation & Gaming added in 2011)
		38 - Philosophy and Religious Studies
		39 - Theology and Religious Vocations

Group	Program/Major Group Title	CIP Areas in Group
10	Math, Computer & Info Sciences	11 - Computer and Information Sciences and Support Services
		25 - Library Science
		27 - Mathematics and Statistics
11	Public Admin/Legal Services	22 - Legal Professions and Studies
		43 - Security and Protective Services
		44 - Public Administration and Social Service Professions
12	Social Sciences	42 - Psychology
		45 - Social Sciences
		54 - History
13	Trades/Technical	32-Basic Skills and Developmental/Remedial Education
		46 - Construction Trades
		47 - Mechanic and Repair Technologies/Technicians
		48 - Precision Production Trades
		49-Transportation and Materials Moving

⁶ The table below lists: (1) WTCS programs and their associated program codes; (2) UWS majors and their associated major codes; and (3) UWS majors and CIP groups that were used for program-specific section of the report and retention/graduation in related UWS majors. See definition for CIP (Classification of Instructional Programs) in End Note 5.

WTCS Program	WTCS Program Code or CIP Code	UWS Major	UWS Major or CIP Code	UWS Major and CIP Group
Early Childhood Education	103071	Elementary Education	08021	CIP 05 08021/08231
		Early Childhood Education	08231	
Information Technology (IT)	101070 through 101079 102012 & 102065 101521 through 101531 101501 through 101505 101541 through 101548 101352 through 101353	Computer Science/Information Systems	07011, 07012, 07031 07021 through 07024 07071 through 07091 07171	CIP 03/10 07011, 07012, 07031 07021 through 07024 07071 through 07091
Marketing	101043 101046 101048 101111	Marketing	05091 08381	CIP 03 05091/08381 05011 05061 & 05062 05069
		Business Administration /Management	05011 05061 & 05062 05069	
Nursing	105101 & 105431	Nursing	12031 12032	CIP 07 12031/12032
Criminal Justice	105041 & 105042 & 105045	Criminal Justice	21051 & 22311	CIP 11 21051 & 22311
Engineering Technology	All Applied Associate Degree Program Codes under CIP 14 & 15	Engineering/Engineering Technology Management/Construction	CIP 14 & 15 09250 & 09601	CIP 06 09250 & 09601
Accounting	101011	Accounting	05021	CIP 03 05021
		Business	All Major Codes under CIP 52	
Liberal Arts	208001 & 208002			