



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

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Table of Contents

Highlights	3
Introduction	4
Background	4
Establishment of a Cohort	4
WTCS/UWS Enrollment.....	5
Student Characteristics by WTCS Program Type	6
WTCS Degree Completion Status.....	7
Initial UWS Student Classification.....	7
Initial UWS Entrance Status	8
Initial UWS Full-Time/Part-Time Status	9
Initial UWS Age Range	9
Student Race/Ethnicity	9
Student Outcomes	10
Second Year Retention Rate	10
Six-Year Graduation Rate	11
First Year GPA.....	11
Linking WTCS Programs to UWS Majors.....	11
Program-Specific Enrollments and Assessment	12
Nursing.....	12
Early Childhood Education	14
Information Technology (IT)	16
Marketing.....	18
Criminal Justice	20
Accounting	22
Engineering Technology.....	25
Liberal Arts	27
Appendices.....	29
End Notes	45

Appendices

Appendix A: WTCS/UWS Assessment Cohorts by Initial UWS Enrollment Year and WTCS Institution UWS Cohort Year	29
Appendix B: WTCS/UWS Assessment Cohorts by Initial UWS Enrollment Year, WTCS Program Type, and Degree Completion Status	30
Appendix C: WTCS/UWS Assessment Cohorts by Initial UWS Enrollment Year and Student Classification	31
Appendix D: WTCS/UWS Assessment Cohorts by WTCS Program Type, WTCS Degree Completion Status, and Initial UWS Student Classification	32
Appendix E: WTCS/UWS Assessment Cohorts by Initial UWS Entrance Status and Institution	32
Appendix F: Second Year Retention for WTCS/UWS Assessment Cohorts by Initial UWS Enrollment Year and Student Classification	33
Appendix G: Second Year Retention for WTCS/UWS Assessment Cohorts for Specific Program Groups by Initial UWS Student Classification	34
Appendix H: Six-Year Graduation Rate for WTCS/UWS Assessment Cohorts for Specific Program Groups	35
Appendix I: Average First Year GPA for WTCS/UWS Assessment Cohorts for Specific Program Groups by Initial UWS Enrollment	36
Program-Specific Enrollments and Articulation Agreements by WTCS Institutions and UWS Institutions	37-44
Nursing: Appendices J & K	37
Early Childhood Education: Appendices L & M	38
Information Technology (IT): Appendices N & O	39
Marketing: Appendices P & Q	40
Criminal Justice: Appendices R & S	41
Accounting: Appendices T & U	42
Engineering Technology: Appendices V & W	43
Liberal Arts: Appendix X	44

HIGHLIGHTS

The 2014 WTCS/UWS Program Assessment Study identifies 97,495 students who attended a WTCS institution in fiscal years 1994-95 through 2012-13 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 (32%), followed by students in technical diploma programs (14%) and students in liberal arts programs (12%). While the number of students in the applied associate degree and technical diploma groups 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 gradually. 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 (42%).

The focus of program-to-program articulation agreements between the two Systems is primarily on WTCS applied associate degree programs. Fifty-three percent (53%) of WTCS applied associate degree students who completed an associate degree program entered the UWS as sophomores or upperclassmen (juniors/seniors), whereas only 26 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 67 percent in 2012-13. 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, 60 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 in the assessment cohort, however, only 12 percent completed an associate degree program.

Almost half of students (48%) coming to the UWS after attending a WTCS institution entered as transfer students. One third (33%) of students in the cohort were new, degree-seeking students and 13 percent of students initially enrolled as 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 specials are not degree-seeking, their prior coursework is usually not evaluated unless they become degree-seeking students.

Overall, 13 percent of the students in the assessment cohort were students of color, and 63 percent came to the UWS as full-time students. By age, students were almost evenly distributed among the three age groups - under 20, between 20 and 24, and 25 or over.

Students in the assessment cohort who entered the UWS as sophomores or as upperclassmen had similar second year retention rates, 78 percent and 80 percent, respectively; higher than for those who entered as freshmen (72%). The six-year graduation rate at the UWS for those degree-seeking students in the cohort was 34%. The average first year GPA for the overall group was between 2.7 and 2.9 on a 4.0 scale.

The remainder of this report focuses on the 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 were 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. 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 tenth 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 and 1995 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 2014 Program Assessment Study reports on 97,495 students who attended a WTCS institution in fiscal years 1994-95 through 2012-13, 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 4,724 students who were last enrolled in the WTCS in 1995-96 and concurrently or later enrolled in a UW institution, 1,823 (39%) students initially enrolled in a UW institution in 1996-97, 631 (13%) were enrolled in both Systems in 1995-96, and 2,270 (48%) 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.

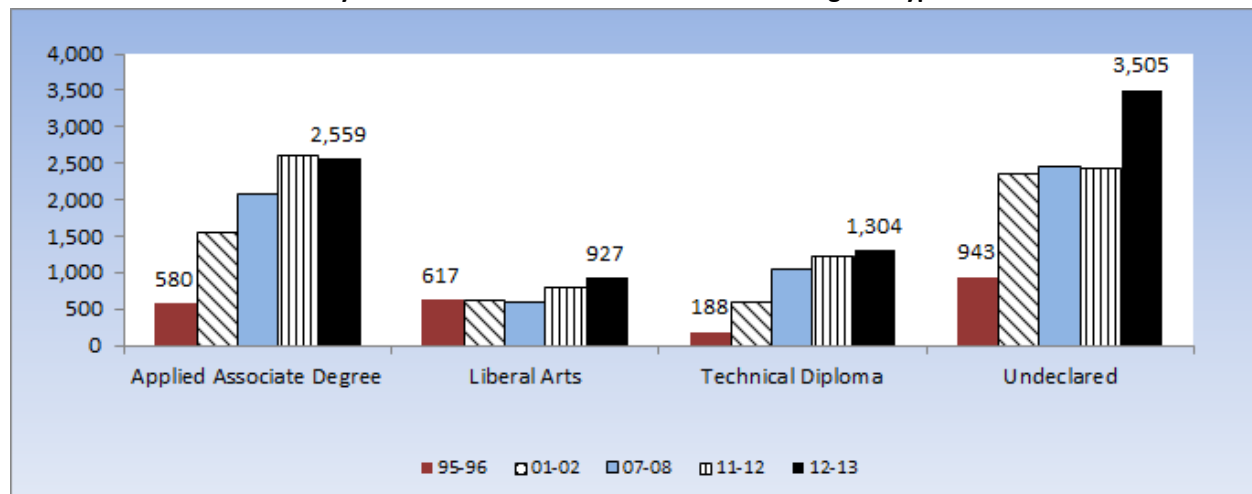
Table 1
WTCS/UWS Assessment Cohorts
by Last WTCS and Initial UWS Enrollment Years

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	
94-95	1,697	571	323	268	195	159	130	92	86	56	59	39	49	54	44	45	34	29	3,930
95-96	631	1,823	603	342	267	205	179	101	95	79	61	45	68	39	64	52	41	29	4,724
96-97		651	1,752	623	365	285	213	167	110	81	84	71	66	63	55	44	55	29	4,714
97-98			684	2,059	676	364	295	192	124	131	81	76	76	69	76	68	46	53	5,070
98-99				768	2,143	800	425	273	179	140	99	87	97	74	86	81	50	51	5,353
99-00					733	2,136	726	361	274	169	165	141	94	92	86	82	73	62	5,194
00-01						721	2,369	757	346	253	172	132	133	98	88	85	78	63	5,295
01-02							832	2,418	784	375	251	208	163	140	95	105	86	65	5,522
02-03								908	2,670	882	345	246	174	194	152	135	91	73	5,870
03-04									865	2,756	912	369	279	181	179	157	112	109	5,919
04-05										922	2,792	867	404	243	210	165	133	113	5,849
05-06											878	2,749	828	390	309	210	182	134	5,680
06-07												897	2,839	916	432	286	213	164	5,747
07-08													908	2,826	928	468	262	214	5,606
08-09														1,003	2,995	1,011	392	267	5,668
09-10															1,049	3,156	998	405	5,608
10-11																1,110	3,153	897	5,160
11-12																	1,048	4,436	5,484
12-13																		1,102	1,102
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	97,495

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 18 years, from 580 in 1995-96 to 2,559 in 2012-13 (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 1,304 in 2012-13. 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 gradually to 927. 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 3,505 in 2012-13. These undeclared students enrolled in a variety of WTCS courses. The top five instructional areas were social sciences, nursing, communication skills, natural sciences, and mathematics.

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



From 1995-96 to 2012-13, the percentage of the cohort enrolled in WTCS applied associate degree programs increased from 25 percent to 31 percent and the proportion of the cohort enrolled in technical diploma programs grew from 8 percent to 16 percent. In contrast, the share of WTCS liberal arts students in the cohort declined from 27 percent in 1995-96 to 11 percent in 2012-13 (Table 2).

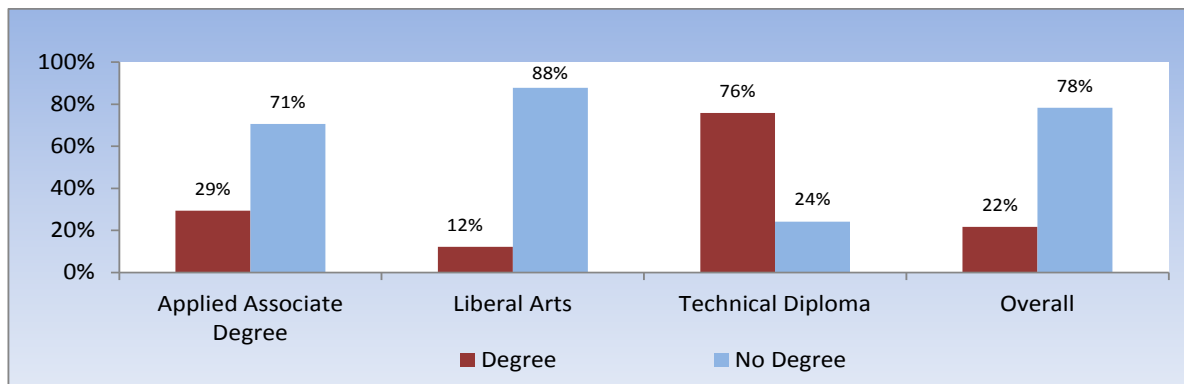
Table 2
WTCS/UWS Assessment Cohorts
by Initial UWS Enrollment Year and WTCS Program Type

Program Type	UWS Cohort Year					Overall
	95-96	01-02	07-08	11-12	12-13	
Applied Associate Degree	25%	30%	34%	37%	31%	32%
Liberal Arts	27%	12%	10%	11%	11%	12%
Technical Diploma	8%	12%	17%	17%	16%	14%
Undeclared	41%	46%	40%	35%	42%	42%
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, 29 percent of the students earned a WTCS applied associate degree. Only 12 percent of the WTCS liberal arts students earned the WTCS Associate Degree in 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

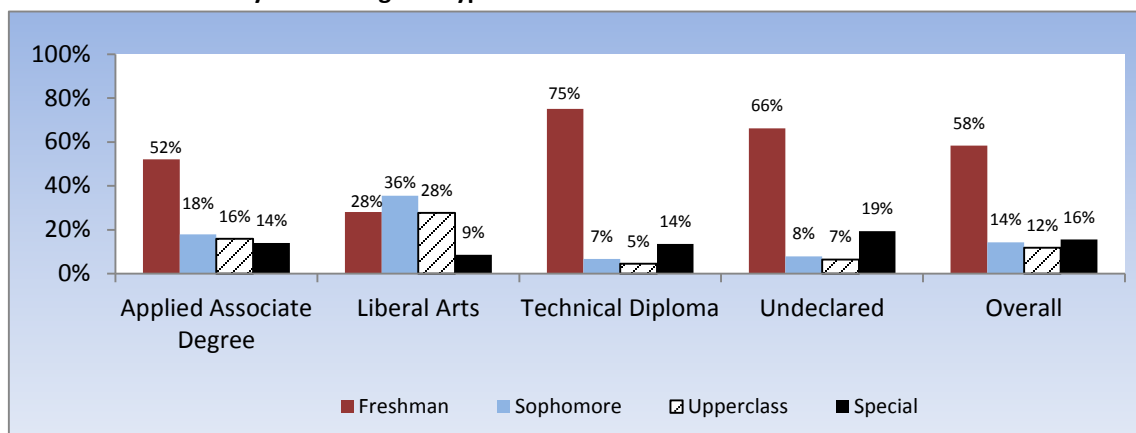


**Overall includes students who were not enrolled in a specific WTCS program.*

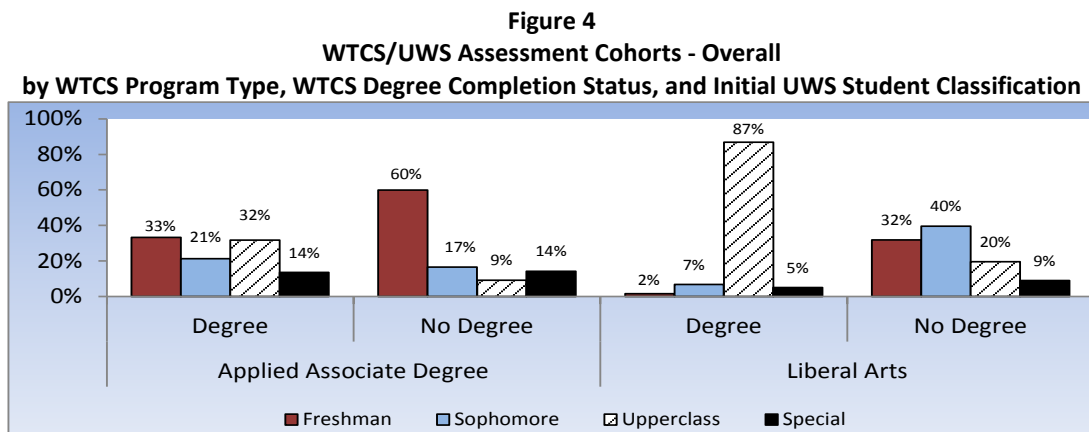
Initial UWS Student Classification³

The majority of WTCS students who were enrolled in applied associate degree programs (52%) and technical diplomas (75%) entered the UWS as freshmen, compared to 28 percent for students in WTCS liberal arts programs. For students who were not enrolled in a specific WTCS program, the percentage was 66 percent. Overall, 16 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

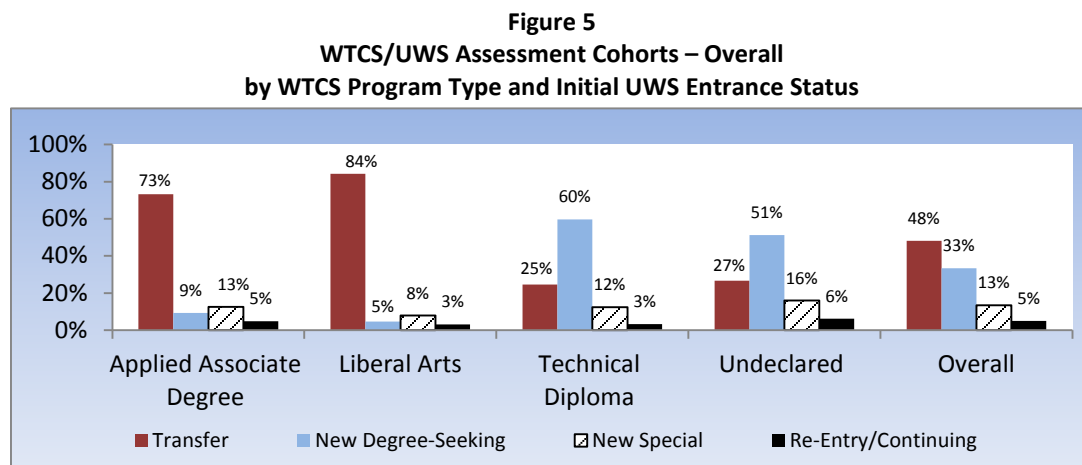


Students who earned a WTCS degree prior to their enrollment in the UWS were more likely to enter the UWS as upperclassmen (juniors/seniors) than students who did not earn a WTCS degree (Figure 4). Fifty-three percent (53%) of the students in the assessment cohort who earned a WTCS applied associate degree entered the UWS as sophomores (21%) or upperclassmen (32%), compared to 26 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 60 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 67 percent in 2012-13. The efforts of the two Systems to develop and expand articulation agreements may have contributed to the increase.



Initial UWS Entrance Status

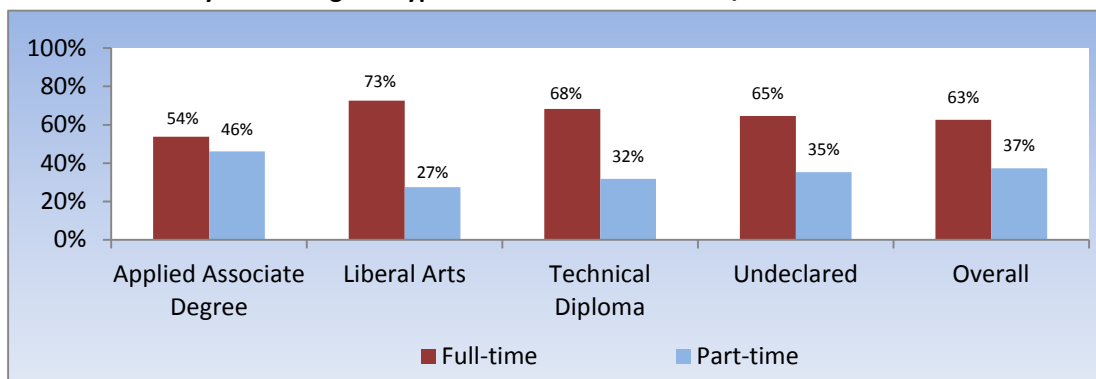
Almost half of the students (48% overall), coming to the UWS after attending a WTCS institution, entered as transfer students (Figure 5), that is, they notified the UW institution of their prior coursework and received transfer credits. One third of the students in the cohort were new, degree-seeking 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 84 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, 63 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%).

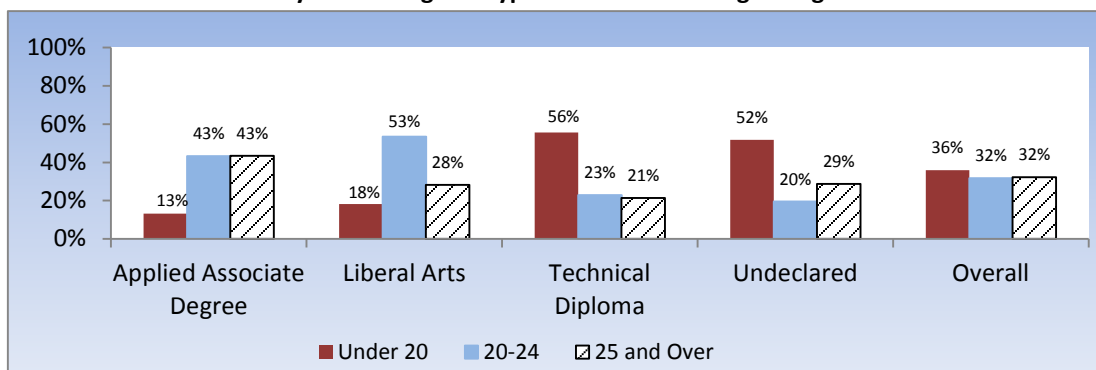
Figure 6
WTCS/UWS Assessment Cohorts - Overall
by WTCS Program Type and Initial UWS Full-Time/Part-Time Status



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. About half of the students who were enrolled in liberal arts programs or applied associate degree programs were between 20 and 24 years old. More than half of the students enrolled in technical diploma programs and 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, 13 percent of the students (12,714) in the cohort were students of color, ranging from 11 percent (1,596) in technical diploma programs to 18 percent (2,161) in liberal arts programs (Figure 8). The proportion of students of color, coming to the UWS after attending a WTCS institution, has increased and remained at 16 percent in the most recent three years (Figure 9). Among the selected WTCS programs, WTCS students from Liberal Arts (18%), Information Technology (17%), Early Childhood Education (17%), Accounting (15%), and Criminal Justice (14%) were more likely to be students of color than those from Nursing (12%), Marketing (11%), and Engineering Technology (10%).

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

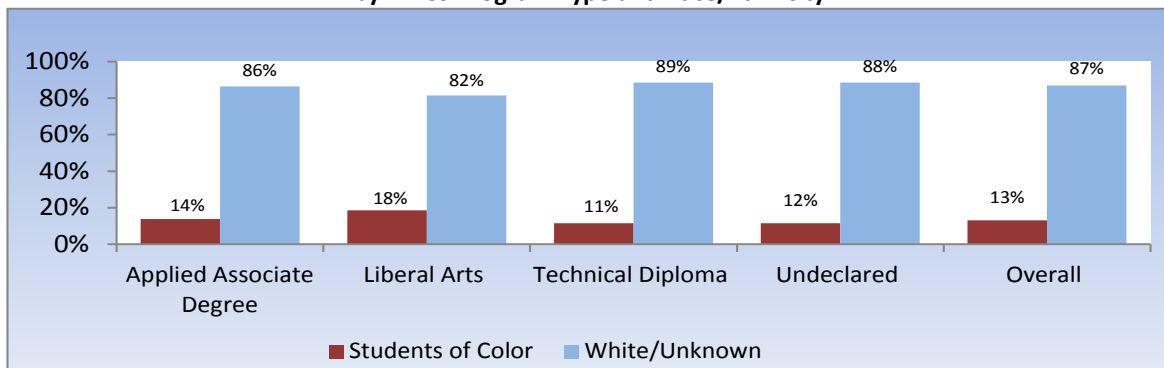
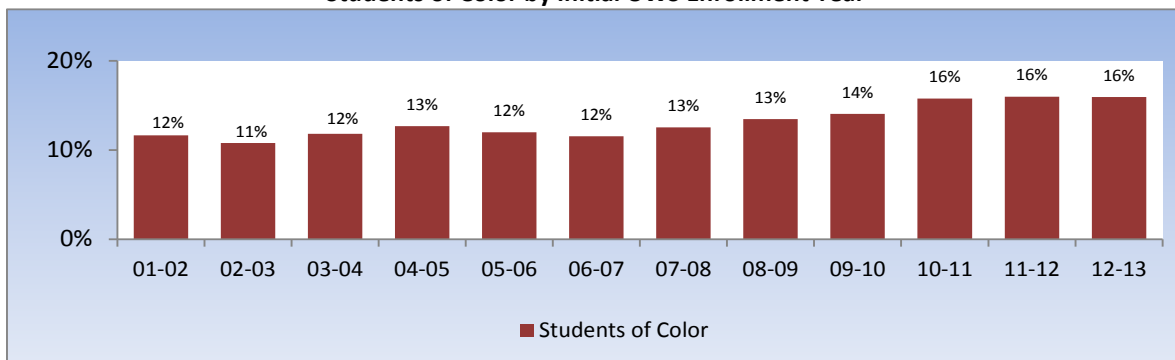


Figure 9
WTCS/UWS Assessment Cohorts - Overall
Students of Color by Initial UWS Enrollment Year

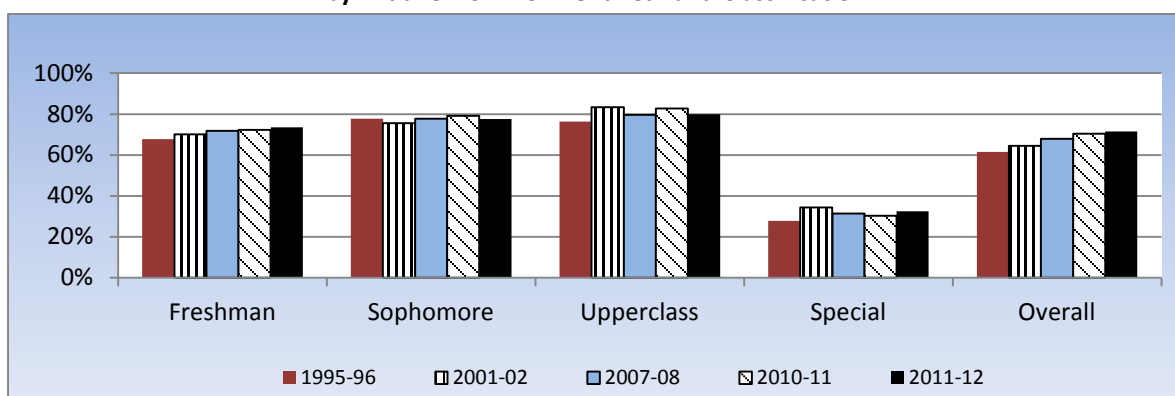


STUDENT OUTCOMES

Second Year Retention Rate

Students who entered the UWS as sophomores and upperclassmen had similar second year retention rates⁴, higher than those who entered as freshmen (Figure 10). Of the students who initially enrolled in the UWS in 2011-12 as sophomores or as upperclassmen, their second year retention rates were 78 percent and 80 percent, respectively, compared to 74 percent for freshmen. 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 enrolled in the UWS between 1995-96 and 2007-08 was 34 percent. See Appendix H for details.

First Year GPA

The average first year GPA for students in the assessment study who enrolled in the UWS between 1995-96 and 2011-12 was between 2.7 and 2.9 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, 768 students in the cohort had enrolled in Agriculture & Natural Resources programs at the WTCS, 1,690 students in the cohort enrolled in Agriculture & Natural Resources majors at the UWS, and 210 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 17,304 students (18% of the overall cohort). Out of the 12,180 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 4,147 students and Business to Business with 2,766 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)	210	31	48	12	55	16	12	1	32	7	7	22	315	768
Biological/Physical Sci (02)	5	56	14	2	6	8	7	0	13	3	2	12	73	201
Business (03)	116	246	2,766	447	746	77	401	57	776	256	290	702	3,779	10,659
Communications/Arts (04)	13	26	122	529	112	28	59	6	72	24	33	98	630	1,752
Education (05)	3	6	23	26	638	3	40	25	68	4	49	51	568	1,504
Engineering & Architect (06)	47	64	406	71	140	485	43	4	86	135	18	84	1,436	3,019
Health-Related Prof (07)	98	1,276	556	275	741	53	4,147	88	514	75	641	747	8,093	17,304
Home Econ/Personal Ser (08)	9	11	132	36	97	5	39	12	34	7	17	36	445	880
Humanities/Liberal Arts (09)	359	632	1,323	981	1,246	447	865	142	805	308	510	1,394	3,168	12,180
Math, Comp & Info Scis (10)	14	60	367	119	94	40	60	6	175	593	44	119	1,121	2,812
Public Admin/Legal Svcs (11)	46	91	302	89	185	21	178	13	299	33	748	420	1,506	3,931
Social Sciences (12)	0	0	4	0	2	0	0	0	1	1	1	5	1	15
Trades/Tech (13)	51	47	253	58	159	115	31	3	40	50	31	71	923	1,832
Undeclared (99)	719	2,073	4,200	2,014	2,633	1,062	3,034	189	1,762	998	1,277	2,388	18,289	40,638
Total	1,690	4,619	10,516	4,659	6,854	2,360	8,916	546	4,677	2,494	3,668	6,149	40,347	97,495

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 2014 assessment study includes 3,032 students who last enrolled in the WTCS Nursing applied associate degree program between 1994-95 and 2012-13, 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 134 nursing students who last enrolled in the WTCS in 1995-96, 45 students (34%) enrolled in the UWS in 1996-97, 10 students (7%) were concurrently enrolled, and 79 students (59%) 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	
94-95	26	15	13	10	3	8	8	2	3	2	1	5	2	3	1	1	3	3	109
95-96	10	45	14	4	5	16	10	4	6	4	3	3	1		4	1	2	2	134
96-97		30	43	9	13	11	8	8	7	5	4	3	9	2		1	2		155
97-98			13	44	9	13	13	11	4	11	5	4	1	2	1	4	4		139
98-99				18	41	22	12	10	3	4	6	3	6	7	1	1	2	2	138
99-00					21	40	19	8	9	6	8	16	4	4	3	3	7		148
00-01						13	37	10	11	8	6	6	1	2	3	4	2	3	106
01-02							16	56	22	15	12	11	10	6	2	3	1	4	158
02-03								51	72	18	10	13	9	5	7	2	7	4	198
03-04									29	63	15	17	18	10	4	7	5	4	172
04-05										41	96	26	19	9	9	10	9	4	223
05-06											39	81	24	13	21	13	11	8	210
06-07												49	61	31	8	19	11	14	193
07-08													44	70	24	21	15	10	184
08-09														43	75	38	9	11	176
09-10															46	99	36	19	200
10-11																54	104	28	186
11-12																	53	87	140
12-13																		63	63
Total	36	90	83	85	92	123	123	160	166	177	205	237	209	207	209	281	283	266	3,032

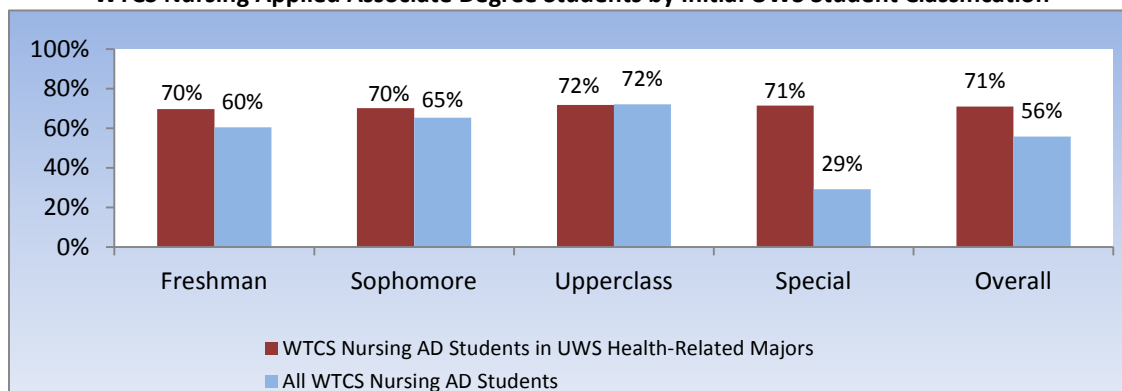
Table 5 shows the type of UWS majors chosen by WTCS nursing students. While the majority of WTCS nursing students in the cohort entered Health-Related Professions, they also pursued majors in Biological/Physical Science, Education, and Social Sciences areas. Some of the WTCS nursing students in the undeclared 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)	86	3%	5%
Business (03)	43	1%	3%
Communications/Arts (04)	17	1%	1%
Education (05)	80	3%	5%
Engineering & Architecture (06)	4	0%	0%
Health-Related Professions (07)	1,210	40%	75%
Home Economics/Personal Services (08)	6	0%	0%
Humanities/Liberal Arts (09)	54	2%	3%
Math, Computer & Info Sciences (10)	5	0%	0%
Public Admin/Legal Services (11)	40	1%	2%
Social Sciences (12)	71	2%	4%
Total with Declared Major	1,623	54%	100%
Undeclared	1409	46%	
Total	3,032	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 71 percent, compared to 56 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 2007-08 as degree-seeking students, WTCS nursing students who declared a UWS major in Health-Related Professions had a six-year graduation rate of 34 percent, compared to 24 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. In general, WTCS nursing students had a slightly higher average first year GPA than students in the overall assessment study. See Appendix I for details.

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, 35 percent were in WTCS Nursing Assistant programs and 22 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	1,836	35%	48%
Nursing Applied Associate Degree	1,137	22%	30%
Liberal Arts	225	4%	6%
Other Health Programs	241	5%	6%
Other Programs	350	7%	9%
Total with Declared Major	3,789	72%	100%
Undeclared	1,456	28%	
Total	5,245	100%	

Early Childhood Education

The 2014 program assessment study includes 1,409 students who were enrolled in WTCS Early Childhood Education applied associate degree programs between 1994-95 and 2012-13 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	
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				26
96-97		2	13	4	4	2			1	1	1	1		2					31
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	53
99-00					12	22	5	6	3	2	1	3				2	3		59
00-01						6	25	4	1	3	2	1		1	4	3			50
01-02							15	23	8	5	1	3	2	1	3	4	2	1	68
02-03								8	35	9	5	3	3	11	2	4	2	1	83
03-04									12	37	8	8	9	5	1	2	3	3	88
04-05										6	32	5	9	6	7	4	2		71
05-06											22	65	13	10	8	3	5	1	127
06-07												16	53	15	14	9	7	6	120
07-08													23	51	17	11	9	9	120
08-09														17	46	12	4	4	83
09-10															26	69	5	13	113
10-11																40	60	13	113
11-12																	31	67	98
12-13																		37	37
Total	9	18	20	35	43	41	56	46	67	67	75	106	116	121	132	167	133	157	1,409

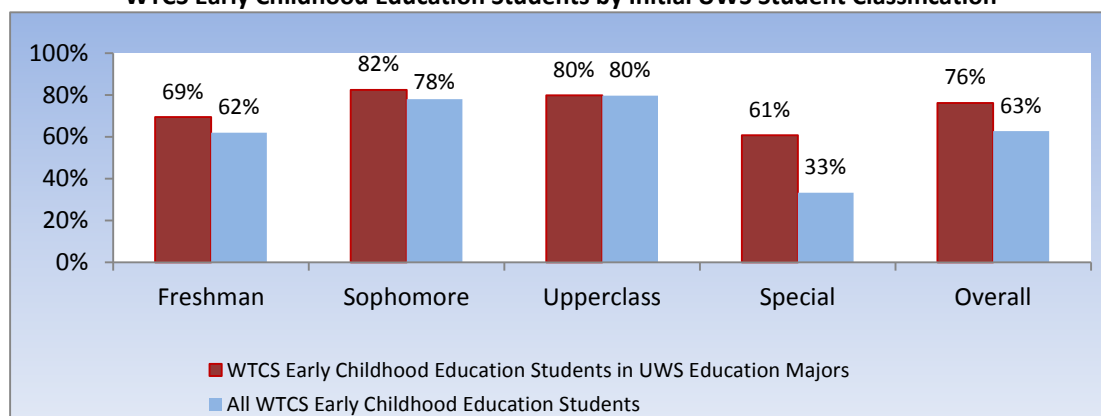
Table 8 shows the type of UWS majors chosen by WTCS Early Childhood Education students. Students in this group predominately entered a UWS major in the Education area. Some of the WTCS early childhood students in the undeclared group may be seeking a UWS Education degree but have not yet been admitted 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)	5	0%	1%
Business (03)	22	2%	2%
Communications/Arts (04)	24	2%	3%
Education (05)	612	43%	69%
Engineering & Architecture (06)	3	0%	0%
Health-Related Professions (07)	38	3%	4%
Home Economics/Personal Services (08)	25	2%	3%
Humanities/Liberal Arts (09)	58	4%	7%
Math, Computer & Info Sciences (10)	3	0%	0%
Public Admin/Legal Services (11)	48	3%	5%
Social Sciences (12)	47	3%	5%
Total with Declared Major	888	63%	100%
Undeclared	521	37%	
Total	1,409	100%	

WTCS Early Childhood Education students who declared a UWS major in the Education area had an overall second year retention rate of 76 percent (Figure 12). This compares to 63 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 2007-08 as degree-seeking students, WTCS early childhood students who declared a UWS major in the Education area had a six-year graduation rate of 45 percent, compared to 32 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. Some of the year-to-year variability in the average GPAs may be due to the small early childhood cohort size. See Appendix I for details.

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 13 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 39 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	468	16%	25%
Liberal Arts	376	13%	20%
Business Programs	302	10%	16%
Nursing Assistant	189	6%	10%
Other Health Programs	185	6%	10%
Other Programs	317	11%	17%
Total with Declared Major	1,837	61%	100%
Undeclared	1,155	39%	
Total	2,992	100%	

Information Technology (IT)

The 2014 program assessment cohort includes 2,979 students who were enrolled in WTCS Information Technology (IT) applied associate degree programs between 1994-95 and 2012-13 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 (42%) 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		
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			105	
96-97		7	43	13	11	5	9	3	3	2	2	3	1	2	6	1	3	1	115	
97-98			15	54	12	9	11	11	4	9	4	3	6	1	3	2		1	145	
98-99				25	53	21	10	6	12	7	2	3	2	4	6	6	4	3	164	
99-00					22	65	25	20	16	8	5	7	4	9	5	6	2	6	200	
00-01						37	90	28	15	16	10	10	11	6	2	5	9	4	243	
01-02							39	93	27	21	6	4	4	7	5	7	6	5	224	
02-03								47	88	23	14	9	10	10	12	11	3	7	234	
03-04									28	81	25	17	23	6	7	10	7	4	208	
04-05										25	76	18	19	18	9	10	6	2	183	
05-06											18	57	21	14	18	10	8	4	150	
06-07												35	57	19	16	10	8	4	149	
07-08													22	80	16	18	10	13	159	
08-09														29	79	18	26	8	160	
09-10																36	98	23	172	
10-11																	38	83	28	149
11-12																		35	84	119
12-13																			29	29
Total	35	53	80	102	109	146	192	213	199	196	164	168	182	210	225	252	234	219	2,979	

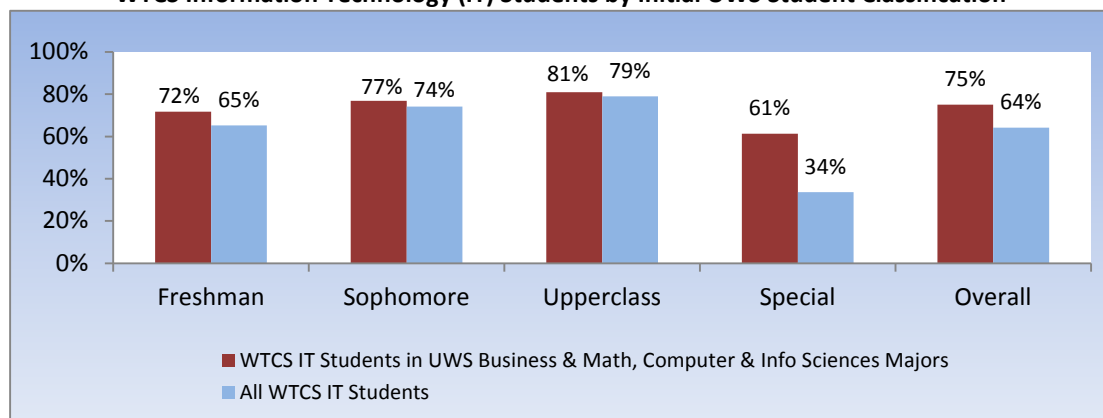
Of the information technology students, 36 percent pursued UWS majors in either the Math, Computer & Information Sciences area, or the Business area (Table 11). This illustrates the two different directions that IT students can pursue at a UW institution – either entering majors with a computer/information 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)	15	1%	1%
Biological/Physical Sciences (02)	70	2%	4%
Business (03)	380	13%	21%
Communications/Arts (04)	106	4%	6%
Education (05)	91	3%	5%
Engineering & Architecture (06)	48	2%	3%
Health-Related Professions (07)	67	2%	4%
Home Economics/Personal Services (08)	8	0%	0%
Humanities/Liberal Arts (09)	187	6%	10%
Math, Computer & Info Sciences (10)	692	23%	38%
Public Admin/Legal Services (11)	44	1%	2%
Social Sciences (12)	126	4%	7%
Total with Declared Major	1,834	62%	100%
Undeclared	1,145	38%	
Total	2,979	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 64 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 2007-08 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 44 percent, compared to 28 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 2.9. In general, WTCS IT students had comparable average first year GPAs as students in the overall assessment group. See Appendix I for details.

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 (10%). 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	509	26%	44%
Liberal Arts	202	10%	17%
Business Programs	129	7%	11%
Engineering Technology	102	5%	9%
Health Programs	57	3%	5%
Other Programs	156	8%	14%
Total with Declared Major	1,155	59%	100%
Undeclared	787	41%	
Total	1,942	100%	

Marketing

The 2014 program assessment cohort includes 2,542 students who were enrolled in WTCS Marketing applied associate degree programs between 1994-95 and 2012-13 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 (46%) 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	
94-95	41	17	6	5	5	4	1			1			2			1	1	1	85
95-96	12	53	13	7	14	4	2	1	2	2	1		1	2	2	1	1	1	119
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	129
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	180
02-03								38	60	16	9	14	4	2	2	3	1	1	150
03-04									46	85	12	9	11	5	4	9	4	4	189
04-05										41	89	20	11	7	7	10	6	5	196
05-06											49	93	17	16	7	4	8	5	199
06-07												60	71	12	9	10	8	6	176
07-08													37	70	20	13	8	8	156
08-09														28	81	13	7	5	134
09-10															30	72	14	10	126
10-11																27	62	10	99
11-12																	16	37	53
12-13																		21	21
Total	53	96	80	109	124	118	171	131	154	173	179	212	166	161	175	169	146	125	2,542

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 231 students in UWS Education majors, 38% were in the Business/Marketing Education majors.

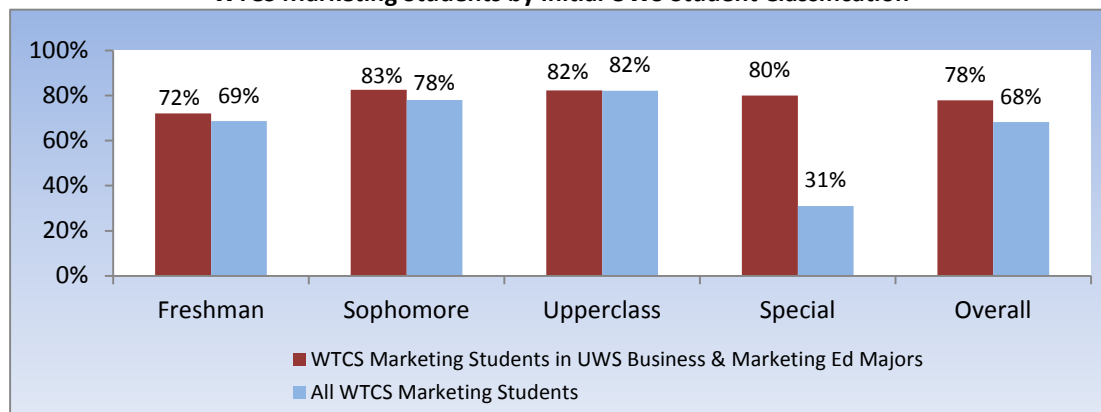
UW-Stout offers a major in Marketing Education and has Marketing-to-Marketing Education transfer agreements with four WTCS institutions. Of the 2,542 WTCS marketing students in the cohort, 468 enrolled at UW-Stout (18%), as shown in Appendix P.

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)	19	1%	1%
Biological/Physical Sciences (02)	52	2%	3%
Business (03)	708	28%	41%
Communications/Arts (04)	146	6%	9%
Education (05)	231	9%	14%
Engineering & Architecture (06)	13	1%	1%
Health-Related Professions (07)	96	4%	6%
Home Economics/Personal Services (08)	12	0%	1%
Humanities/Liberal Arts (09)	177	7%	10%
Math, Computer & Info Sciences (10)	22	1%	1%
Public Admin/Legal Services (11)	62	2%	4%
Social Sciences (12)	171	7%	10%
Total with Declared Major	1,709	67%	100%
Undeclared	833	33%	
Total	2,542	100%	

WTCS marketing students who declared a UWS major in the Business or Marketing Education areas had an overall second year retention rate of 78 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 2007-08 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 34 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. In general, WTCS marketing students had a slightly lower average first year GPA than students in the overall assessment group. See Appendix I for details.

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 (11%). WTCS marketing students comprised 10 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	607	11%	23%
Marketing	569	10%	22%
Accounting	283	5%	11%
Other Business Programs	662	12%	26%
Health Programs	299	5%	12%
Information Technology	153	3%	6%
Public Admin/Legal Services Programs	166	3%	6%
Other Programs	454	8%	18%
Total with Declared Major	2,586	47%	100%
Undeclared	2,281	42%	
Total	5,474	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 2014 assessment cohort includes 2,430 students who were enrolled in WTCS Criminal Justice programs between 1994-95 and 2012-13 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	
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	112
97-98			11	43	15	11	6	4	6		1	1	1	5	2	3			109
98-99				16	56	12	8	7	1	4	5	3	2	4	5	2	2	1	128
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	115
01-02							16	50	15	8	6	8	6	4	2	1	1	3	120
02-03								32	57	13	8	4	4	9	6	6	1	7	147
03-04									24	55	13	6	6	6	4	7	5	4	130
04-05										21	70	15	17	7	12	6	4	5	157
05-06											28	43	28	13	8	8	4	10	142
06-07												19	70	13	16	11	8	6	143
07-08													23	52	31	16	13	10	145
08-09														28	81	28	14	12	163
09-10															37	91	20	14	162
10-11																48	98	28	174
11-12																	31	93	124
12-13																		52	52
Total	54	69	89	82	104	93	109	116	125	114	142	107	167	148	212	236	208	255	2,430

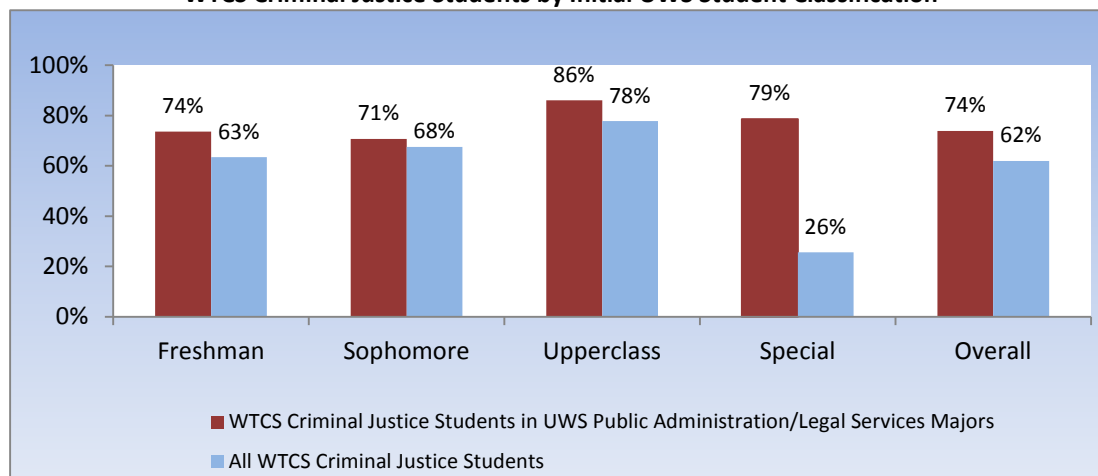
WTCS Criminal Justice students in the cohort pursued two principal types of majors at the UWS (Table 17). One group of students (36% of the students with declared majors) enrolled in majors in the Public Administration/Legal Services area. These students typically majored in Criminal Justice at the UW institution. A second group of criminal justice students (19% 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)	33	1%	2%
Biological/Physical Sciences (02)	56	2%	4%
Business (03)	163	7%	10%
Communications/Arts (04)	56	2%	4%
Education (05)	95	4%	6%
Engineering & Architecture (06)	9	0%	1%
Health-Related Professions (07)	112	5%	7%
Home Economics/Personal Services (08)	8	0%	1%
Humanities/Liberal Arts (09)	147	6%	9%
Math, Computer & Info Sciences (10)	18	1%	1%
Public Admin/Legal Services (11)	565	23%	36%
Social Sciences (12)	291	12%	19%
Total with Declared Major	1,553	64%	100%
Undeclared	877	36%	
Total	2,430	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 74 percent (Figure 15). This compares to 62 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 2007-08 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 41 percent, compared to 25 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. In general, WTCS criminal justice students had a lower average first year GPA than students in the overall assessment group. See Appendix I for details.

A distinct path is shown from WTCS Criminal Justice programs to UWS Criminal Justice majors with 28 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	462	28%	47%
Liberal Arts	135	8%	14%
Health Programs	124	8%	13%
Business Programs	104	6%	11%
Other Public Admin/Legal Services Programs	55	3%	6%
Other Programs	100	6%	10%
Total with Declared Major	980	60%	100%
Undeclared	665	40%	
Total	1,645	100%	

Accounting

The 2014 assessment cohort includes 1,875 students who were enrolled in WTCS Accounting applied associate degree programs between 1994-95 and 2012-13 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	
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	127
96-97		14	37	12	7	12	2	4	3	4		3	1		2	1		2	104
97-98			10	35	15	4		4	1	2		2	2		4	2	1	4	86
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	102
00-01						17	36	9	6	8	7		6	3	1	2		2	97
01-02							22	40	5	5	1	8	4	5	3	3	2		98
02-03								25	43	21	8	1	4		2	3	1	2	110
03-04									22	47	9	8	9	6	3	2	6	6	118
04-05										27	54	16	12	8	6	2	3	5	133
05-06											21	41	5	11	8	7	4	6	103
06-07												12	55	12	11	8	8	7	113
07-08													27	68	19	7	7	8	136
08-09														14	50	8	11	8	91
09-10															22	70	18	5	115
10-11																31	50	12	93
11-12																	20	30	50
12-13																		18	18
Total	46	81	70	76	75	85	95	103	90	125	111	97	135	132	146	150	138	120	1,875

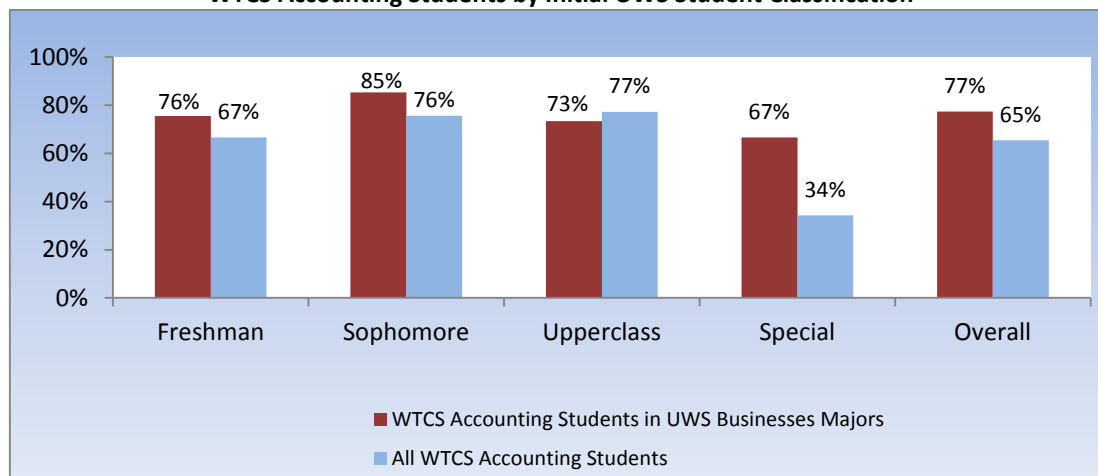
The majority of WTCS Accounting applied associate degree students in the cohort enrolled in the UWS Business area (58% of the students with declared majors). These students typically majored in Accounting at the UWS.

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)	12	1%	1%
Biological/Physical Sciences (02)	33	2%	3%
Business (03)	682	36%	58%
Communications/Arts (04)	35	2%	3%
Education (05)	90	5%	8%
Engineering & Architecture (06)	6	0%	1%
Health-Related Professions (07)	48	3%	4%
Home Economics/Personal Services (08)	6	0%	1%
Humanities/Liberal Arts (09)	112	6%	10%
Math, Computer & Info Sciences (10)	33	2%	3%
Public Admin/Legal Services (11)	46	2%	4%
Social Sciences (12)	68	4%	6%
Total with Declared Major	1,171	62%	100%
Undeclared	704	38%	
Total	1,875	100%	

WTCS accounting students who declared a UWS major in the Business area had an overall second year retention rate of 77 percent (Figure 16). This compares to 65 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 2007-08 as degree-seeking students, WTCS accounting students who declared a UWS major in the Business area had a six-year graduation rate of 42 percent, compared to 28 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 3.0. See Appendix I for details.

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 26 percent of the students in UWS Business majors. Liberal Arts students (11%) 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	1,130	11%	18%
Marketing	708	7%	11%
Accounting	682	6%	11%
Other Business Programs	1,376	13%	22%
Health Programs	556	5%	9%
Engineering Technology	403	4%	6%
Information Technology	367	3%	6%
Public Admin/Legal Services Programs	302	3%	5%
Other Programs	792	8%	13%
Total with Declared Major	6,316	60%	100%
Undeclared	4,200	40%	
Total	10,516	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-four percent (24%) 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	274	24%	42%
Liberal Arts	126	11%	20%
Other Business Programs	85	8%	13%
Health	66	6%	10%
Other Programs	95	8%	15%
Total with Declared Major	646	58%	100%
Undeclared	474	42%	
Total	1,120	100%	

Engineering Technology

The 2014 assessment cohort includes 2,960 students who were enrolled in WTCS Engineering Technology applied associate degree programs between 1994-95 and 2012-13 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	
94-95	70	21	13	10	9	4	7	3	4	4	2	1	4	1	1	3	2	1	160
95-96	17	63	23	22	14	8	8	4	2	6	6		3	2	2	2	2		184
96-97		21	61	31	23	11	16	9	7	3	4	3	2	4	2	3	1	1	202
97-98			24	71	29	13	14	9	8	9	3	1	2	1	9	6	2	3	204
98-99				25	66	32	18	15	9	8	2	3	2	3	3	2	4	3	195
99-00					26	76	19	14	15	7	2	3	7	4	6	2	1	5	187
00-01						16	56	24	13	11	4	6	7	3	3	5	3	2	153
01-02							28	67	26	15	6	16	2	3	6	7	3	1	180
02-03								25	74	18	9	8	7	7	5	10	4	3	170
03-04									24	80	20	9	14	10	5	5	4	5	176
04-05										22	57	16	10	12	11	2	5	10	145
05-06											31	72	31	14	8	10	11	7	184
06-07												25	82	11	17	12	4	2	153
07-08													33	54	23	24	3	6	143
08-09														31	69	22	16	7	145
09-10															29	81	15	7	132
10-11																26	67	21	114
11-12																	19	81	100
12-13																		33	33
Total	87	105	121	159	167	160	166	170	182	183	146	163	206	160	199	222	166	198	2,960

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 (26% 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.

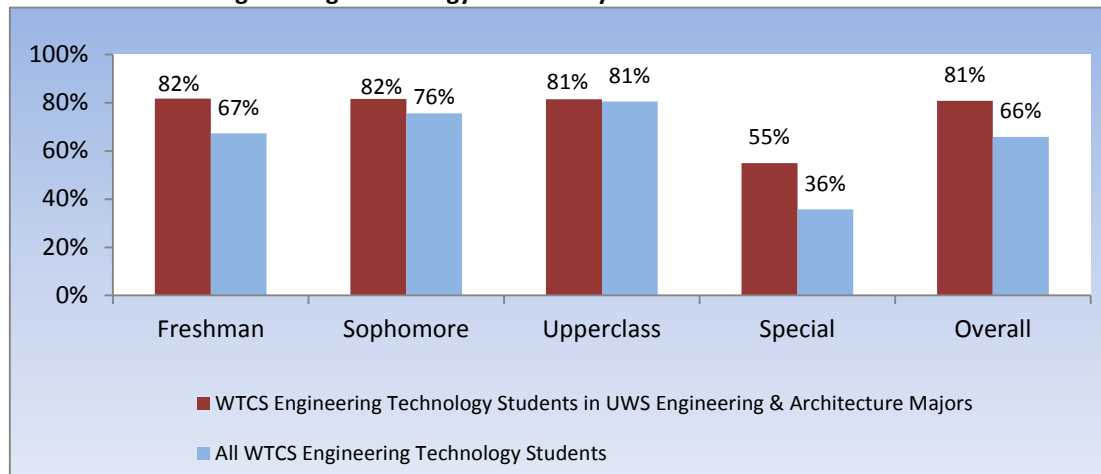
Table 24
WTCS/UWS Assessment Cohorts

WTCS Engineering Technology Students by UWS Major Group

UWS Major Group	# of Students	% of Total	% of Total with Declared Major
Ag & Nat Resources (01)	46	2%	3%
Biological/Physical Sciences (02)	63	2%	4%
Business (03)	397	13%	26%
Communications/Arts (04)	67	2%	4%
Education (05)	137	5%	9%
Engineering & Architecture (06)	471	16%	30%
Health-Related Professions (07)	43	1%	3%
Home Economics/Personal Services (08)	4	0%	0%
Humanities/Liberal Arts (09)	85	3%	5%
Math, Computer & Info Sciences (10)	134	5%	9%
Public Admin/Legal Services (11)	18	1%	1%
Social Sciences (12)	82	3%	5%
Total with Declared Major	1,547	52%	100%
Undeclared	1,413	48%	
Total	2,960	100%	

WTCS engineering technology students who declared a UWS major in the Engineering & Architecture area had an overall second year retention rate of 81 percent (Figure 17). This compares to 66 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 2007-08 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 49 percent, compared to 27 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. See Appendix I for details.

A distinct path is shown from WTCS Engineering Technology programs to UWS Engineering/Engineering Technology majors with 20 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 11 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	614	20%	31%
Business Programs	431	14%	22%
Liberal Arts	327	11%	17%
Trades/Technical Programs	200	6%	10%
Other Programs	380	12%	19%
Total with Declared Major	1,952	63%	100%
Undeclared	1,154	37%	
Total	3,106	100%	

Liberal Arts

The 2014 assessment cohort includes 11,684 students who were enrolled in WTCS Liberal Arts programs between 1994-95 and 2012-13 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

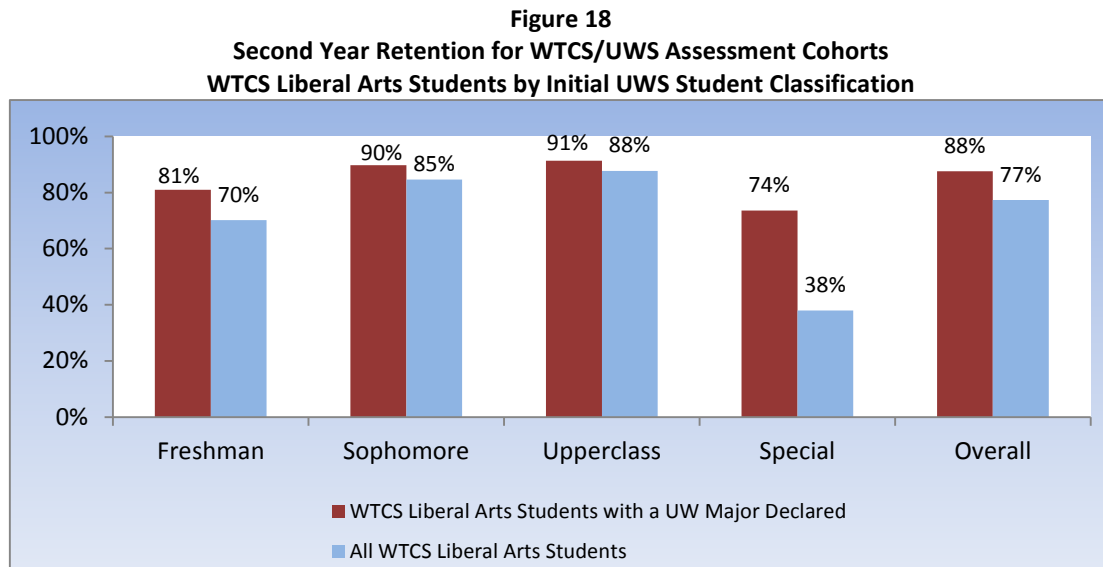
Last WTCS Year	UWS Cohort Year																		Total
	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	
94-95	420	36	13	15	13	8	4	4	3	3	1	3	1	1	2	2		1	530
95-96	197	440	56	20	14	8	5	7	3	6	4	3	6	2	3	2	1	1	778
96-97		188	397	49	15	14	11	11	5	5	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	713
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	597
00-01						153	350	44	17	12	8	7	11	6	6	2	2	6	624
01-02							192	354	35	23	14	15	10	3	7	6	2	6	667
02-03								145	310	40	22	11	2	5	7	10	4	2	558
03-04									142	277	36	13	13	5	8	4	1	2	501
04-05										146	311	35	13	13	10	3	7	8	546
05-06											140	349	43	14	13	11	7	7	584
06-07												174	305	35	23	17	8	8	570
07-08													181	335	31	24	11	6	588
08-09														211	388	44	14	8	665
09-10															203	410	50	22	685
10-11																202	415	48	665
11-12																	249	490	739
12-13																		304	304
Total	617	664	666	655	589	599	637	605	554	521	546	626	596	640	713	747	782	927	11,684

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 (11%), 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)	350	3%	4%
Biological/Physical Sciences (02)	622	5%	7%
Business (03)	1,292	11%	15%
Communications/Arts (04)	962	8%	11%
Education (05)	1,177	10%	13%
Engineering & Architecture (06)	443	4%	5%
Health-Related Professions (07)	846	7%	10%
Home Economics/Personal Services (08)	141	1%	2%
Humanities/Liberal Arts (09)	744	6%	9%
Math, Computer & Info Sciences (10)	295	3%	3%
Public Admin/Legal Services (11)	485	4%	6%
Social Sciences (12)	1,378	12%	16%
Total with Declared Major	8,735	75%	100%
Undeclared	2,949	25%	
Total	11,684	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 77 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 2007-08 as degree-seeking students, WTCS Liberal Arts students had a six-year graduation rate of 49 percent, compared to 34 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. In general, WTCS Liberal Arts students had a comparable average first year GPA as students in the overall assessment group. See Appendix I for details.

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	11-12	12-13	#	%
Blackhawk	39	109	132	173	166	2,195	2%
Chippewa Valley	69	305	385	425	483	5,717	6%
Fox Valley	151	409	569	679	624	8,011	8%
Gateway	135	285	456	521	603	6,476	7%
Lakeshore	60	158	211	250	251	3,032	3%
Madison	549	871	950	1,039	1,213	15,700	16%
Mid-State	66	248	247	255	303	3,987	4%
Milwaukee	691	924	756	992	1,125	16,193	17%
Moraine Park	57	233	302	328	425	4,407	5%
Nicolet	88	145	106	169	177	2,374	2%
Northcentral	75	269	379	416	659	5,397	6%
Northeast	97	376	573	659	726	7,698	8%
Southwest	28	101	209	215	198	2,411	2%
Waukesha	94	258	308	341	688	5,137	5%
Western	73	222	277	309	341	4,510	5%
WI Indianhead	56	256	318	276	313	4,250	4%
Total	2,328	5,169	6,178	7,047	8,295	97,495	100%

Note: Only selected UW cohort years are shown though total includes UW cohort years from 1995-96 through 2010-11.

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%
Total	#	9,173	22,100	31,273	1,420	10,264	11,684	10,539	3,361	13,900	40,638	21,132	76,363	97,495
	%	29%	71%	100%	12%	88%	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%
Total	#	56,964	13,902	11,478	15,151	97,495
	%	58%	14%	12%	16%	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		11-12		12-13		Overall	
			#	%	#	%	#	%	#	%	#	%	#	%
Applied Associate Degree	Degree	Freshman	56	41%	178	40%	195	32%	167	20%	199	24%	3,057	33%
		Sophomore	35	25%	71	16%	150	25%	201	24%	209	25%	1,954	21%
		Upperclass	27	20%	94	21%	184	30%	407	48%	351	42%	2,916	32%
		Special	20	14%	100	23%	82	13%	68	8%	70	8%	1,246	14%
		Sub-Total	138	100%	443	100%	611	100%	843	100%	829	100%	9,173	100%
	No Degree	Freshman	289	65%	749	67%	867	59%	896	51%	908	52%	13,256	60%
		Sophomore	37	8%	115	10%	271	18%	464	26%	425	25%	3,654	17%
		Upperclass	15	3%	53	5%	144	10%	260	15%	250	14%	2,036	9%
		Special	101	23%	200	18%	190	13%	140	8%	147	8%	3,154	14%
		Sub-Total	442	100%	1,117	100%	1,472	100%	1,760	100%	1,730	100%	22,100	100%
	Total		580		1,560		2,083		2,603		2,559		31,273	
Liberal Arts	Degree	Freshman		0%	2	3%	2	3%	2	2%	1	1%	22	2%
		Sophomore	1	2%	4	6%	1	1%	5	4%	7	5%	96	7%
		Upperclass	44	96%	59	89%	63	93%	105	91%	122	90%	1,231	87%
		Special	1	2%	1	2%	2	3%	4	3%	6	4%	71	5%
		Sub-Total	46	100%	66	100%	68	100%	116	100%	136	100%	1,420	100%
	No Degree	Freshman	187	33%	198	35%	154	29%	180	27%	205	26%	3,262	32%
		Sophomore	243	43%	228	40%	181	34%	250	38%	289	37%	4,060	40%
		Upperclass	94	16%	88	15%	132	25%	184	28%	224	28%	2,012	20%
		Special	47	8%	57	10%	61	12%	52	8%	73	9%	930	9%
		Sub-Total	571	100%	571	100%	528	100%	666	100%	791	100%	10,264	100%
	Total		617		637		596		782		927		11,684	

Note: Only selected UW cohort years are shown though overall includes UW cohort years from 1995-96 through 2010-11.

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	4,311	48%	2,661	29%	1,763	19%	325	4%	9,060
UW-Milwaukee	9,645	54%	3,799	21%	3,049	17%	1,499	8%	17,992
UW-Eau Claire	1,900	41%	2,105	46%	460	10%	115	3%	4,580
UW-Green Bay	3,411	61%	1,464	26%	400	7%	276	5%	5,551
UW-La Crosse	2,188	48%	1,766	39%	495	11%	89	2%	4,538
UW-Oshkosh	3,671	51%	2,919	41%	374	5%	241	3%	7,205
UW-Parkside	2,239	50%	1,315	29%	630	14%	281	6%	4,465
UW-Platteville	1,196	31%	1,860	48%	485	13%	306	8%	3,847
UW-River Falls	751	42%	855	48%	145	8%	36	2%	1,787
UW-Stevens Point	2,609	55%	1,455	31%	561	12%	133	3%	4,758
UW-Stout	4,489	69%	1,305	20%	283	4%	394	6%	6,471
UW-Superior	1,192	66%	389	22%	134	7%	88	5%	1,803
UW-Whitewater	2,820	58%	1,564	32%	290	6%	195	4%	4,869
UW Colleges	6,545	32%	9,137	44%	3,979	19%	908	4%	20,569
UW System Total	46,967	48%	32,594	33%	13,048	13%	4,886	5%	97,495

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%
1997-98	Freshman	1,818	1,289	71%
	Sophomore	476	383	80%
	Upperclass	331	269	81%
	Special	737	236	32%
	Total	3,362	2,177	65%
1999-00	Freshman	2,586	1,801	70%
	Sophomore	545	419	77%
	Upperclass	349	262	75%
	Special	899	282	31%
	Total	4,379	2,764	63%
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%
2003-04	Freshman	3,464	2,470	71%
	Sophomore	645	509	79%
	Upperclass	495	389	79%
	Special	929	298	32%
	Total	5,533	3,666	66%
2005-06	Freshman	3,685	2,612	71%
	Sophomore	755	575	76%
	Upperclass	534	420	79%
	Special	925	290	31%
	Total	5,899	3,897	66%
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%
2009-10	Freshman	3,919	2,886	74%
	Sophomore	1,111	890	80%
	Upperclass	1,009	814	81%
	Special	809	247	31%
	Total	6,848	4,837	71%
2011-12	Freshman	3,774	2,777	74%
	Sophomore	1,324	1,027	78%
	Upperclass	1,264	1,011	80%
	Special	685	223	33%
	Total	7,047	5,038	71%
Overall*	Freshman	51,953	37,171	72%
	Sophomore	12,567	9,838	78%
	Upperclass	10,262	8,249	80%
	Special	14,418	4,538	31%
	Total	89,200	59,796	67%

*Includes UWS cohort years from 1995-96 through 2011-12.

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	986	596	60%	261	182	70%
	Sophomore	453	296	65%	245	172	70%
	Upperclass	617	445	72%	550	395	72%
	Special	710	207	29%	35	25	71%
	Total	2,766	1,544	56%	1,091	774	71%
Early Child Education		All WTCS Early Childhood Education Students			WTCS Early Childhood Education Students in UWS Education Majors		
	Freshman	551	341	62%	193	134	69%
	Sophomore	290	226	78%	205	169	82%
	Upperclass	177	141	80%	124	99	80%
	Special	234	78	33%	28	17	61%
	Total	1,252	786	63%	550	419	76%
Information Technology (IT)		All WTCS IT Students			WTCS IT Students in UWS Business & Math, Computer & Info Sciences Majors		
	Freshman	1,544	1,008	65%	470	337	72%
	Sophomore	364	270	74%	182	140	77%
	Upperclass	456	360	79%	289	234	81%
	Special	396	133	34%	31	19	61%
	Total	2,760	1,771	64%	972	730	75%
Marketing		All WTCS Marketing Students			WTCS Marketing Students in UWS Business & Marketing Ed Majors		
	Freshman	1,402	962	69%	337	243	72%
	Sophomore	413	322	78%	184	152	83%
	Upperclass	347	285	82%	226	186	82%
	Special	255	79	31%	15	12	80%
	Total	2,417	1,648	68%	762	593	78%
Criminal Justice		All WTCS Criminal Justice Students			WTCS Criminal Justice Students in UWS Public Administration/Legal Services Majors		
	Freshman	1,303	826	63%	254	187	74%
	Sophomore	437	295	68%	184	130	71%
	Upperclass	220	171	78%	50	43	86%
	Special	215	55	26%	14	11	79%
	Total	2,175	1,347	62%	502	371	74%
Accounting		All WTCS Accounting Students			WTCS Accounting Students in UWS Business Majors		
	Freshman	988	658	67%	323	244	76%
	Sophomore	311	235	76%	170	145	85%
	Upperclass	228	176	77%	124	91	73%
	Special	228	78	34%	24	16	67%
	Total	1,755	1,147	65%	641	496	77%
Engineering Technology		All WTCS Engineering Technology Students			WTCS Engineering Technology Students in UWS Engineering & Architecture Majors		
	Freshman	1,538	1,034	67%	181	148	82%
	Sophomore	357	270	76%	130	106	82%
	Upperclass	453	365	81%	302	246	81%
	Special	414	148	36%	20	11	55%
	Total	2,762	1,817	66%	633	511	81%
Liberal Arts		All WTCS Liberal Arts Students			WTCS Liberal Arts Students with a UW Major Declared		
	Freshman	3,078	2,160	70%	2,017	1,633	81%
	Sophomore	3,860	3,265	85%	3,246	2,912	90%
	Upperclass	2,897	2,539	88%	2,596	2,370	91%
	Special	922	350	38%	257	189	74%
	Total	10,757	8,314	77%	8,116	7,104	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	1,245	296	24%
	WTCS Nursing AD Students in UWS Health-Related Majors	609	210	34%
Early Childhood Education	All WTCS Early Childhood Education Students	549	175	32%
	WTCS Early Childhood Education Students in UWS Education Majors	264	119	45%
Information Technology (IT)	All WTCS Information Technology (IT) Students	1,524	425	28%
	WTCS IT Students in UWS Business or Math, Computer & Information Sciences Majors	564	250	44%
Marketing	All WTCS Marketing Students	1,564	538	34%
	WTCS Marketing Students in UWS Business & Marketing Ed Majors	567	281	50%
Criminal Justice	All WTCS Criminal Justice Students	1,210	303	25%
	WTCS Criminal Justice Students in UWS Public Administration/Legal Services Majors	256	104	41%
Accounting	All WTCS Accounting Students	1,007	286	28%
	WTCS Accounting Students in UWS Business Majors	418	177	42%
Engineering Technology	All WTCS Engineering Technology Students	1,673	452	27%
	WTCS Engineering Technology Students in UWS Engineering & Architecture Majors	434	213	49%
Liberal Arts		7,174	3,535	49%
Overall		50,361	17,071	34%

*Includes 1995-96 to 2007-08 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	97-98	99-00	01-02	03-04	05-06	07-08	09-10	11-12	Overall
Nursing	# in Cohort	36	83	92	123	166	205	209	209	283	2,766
	1st Year GPA	2.9	3.1	3.1	3.0	2.9	3.0	2.9	3.0	3.2	3.0
Early Childhood Education	# in Cohort	9	20	43	56	67	75	116	132	133	1,252
	1st Year GPA	2.9	2.7	2.6	3.1	2.8	2.6	3.0	2.9	3.0	2.8
Information Technology (IT)	# in Cohort	35	80	109	192	199	164	182	225	234	2,760
	1st Year GPA	2.9	2.7	2.4	2.8	2.7	2.6	2.8	2.7	2.9	2.8
Marketing	# in Cohort	53	80	124	171	154	179	166	175	146	2,417
	1st Year GPA	2.5	2.7	2.7	2.7	2.6	2.6	2.6	2.7	2.8	2.7
Criminal Justice	# in Cohort	54	89	104	109	125	142	167	212	208	2,175
	1st Year GPA	2.6	2.5	2.4	2.7	2.5	2.4	2.4	2.4	2.6	2.5
Accounting	# in Cohort	46	70	75	95	90	111	135	146	138	1,755
	1st Year GPA	3.0	2.9	2.5	2.9	2.8	2.7	2.8	2.8	2.9	2.8
Engineering Technology	# in Cohort	87	121	167	166	182	146	206	199	166	2,762
	1st Year GPA	2.2	2.6	2.7	2.9	2.9	2.8	2.7	2.9	3.1	2.8
Liberal Arts	# in Cohort	617	666	589	637	554	546	596	713	782	10,757
	1st Year GPA	2.6	2.7	2.7	2.8	2.7	2.7	2.7	2.8	2.9	2.7
Overall	# in Cohort	2,328	3,362	4,379	5,169	5,533	5,899	6,178	6,848	7,047	89,200
	1st Year GPA	2.7	2.8	2.8	2.8	2.8	2.7	2.8	2.8	2.9	2.8

Note: Only selected UW cohort years are shown though overall includes UW cohort years from 1995-96 through 2011-12.

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	6	8	1	3		7	1	5		2	2		10	94	139
Chippewa Valley	1	1	115	8	3			1	12	4	22	2	1	25	195
Fox Valley	5	2	3	58	1	132	2		1	9	2			67	282
Gateway	3	77	1	8	1	9	148	1		1			15	19	283
Lakeshore	1	8	1	36	1	36	1			2				132	218
Madison	101	17	3	7	1	13		1		1	1		4	34	183
Mid-State	2	1	9	5		31				53				59	160
Milwaukee	5	228	1	7		10	8			1			3	24	287
Moraine Park	5	29		5		44		1		4	1			96	185
Nicolet	5	7	6	59	2	7		1	1	14	2	5	1	16	126
Northcentral	2	3	5	21	1	46		1		25	1	1	1	82	189
Northeast WI	3	3	2	150		12				15				49	234
Southwest WI	4	1		4	1		1	17		2				25	55
Waukesha	1	86		2	1	7	5			1	1		8	83	195
Western	7	6	10	13	79	9	3	2	3	6	6		2	27	173
WI Indianhead	4	1	33	13	1	5	1		9	2	8	23		28	128
* Overall Total	155	478	190	399	92	368	170	30	26	142	46	31	45	860	3,032
* Major-Specific Total	128	276	132	323	7	315	8			13	7		1		1,210

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	N2							
Lakeshore	N1	N1	N1	N1		N1								
Madison	N1	N1	N1	N1		N1								
Mid-State	N1	N1	N1	N1		N1								
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								
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)

N2 = WTCS Nursing Applied Associate Degree to UW-Parkside and UW-Milwaukee Consortial Nursing Program (2000)

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						18			2	2	44	25	99
Chippewa Valley		1	2	1	1			1	1		26				33
Fox Valley		4		11		98	1	1		4	15	2		44	180
Gateway		20			1		45			2	2		18	3	91
Lakeshore		5				9		1			1		1	16	33
Madison	19	13	1			6		13	2	1	3	2	19	7	86
Mid-State		2				4		1	3	26	2	1	7	9	55
Milwaukee	1	148				2	3	2			2	1	6	6	171
Moraine Park		6		1	1	15		2	1		1	3	2	29	61
Nicolet			1	4		3		2	1	24	5	28		3	71
Northcentral		3	3	4	1	3	1			14	9	7	1	28	74
Northeast WI		8	1	35	3	11		2	2	1	3	8	4	7	85
Southwest WI	1	2			2			29	1			2	1	6	44
Waukesha		46		2		2		1		2	1		21	38	113
Western			3		36		1	5	3	1	6	2	1	7	65
WI Indianhead		1	3	1	2	1		3	37		44	45		11	148
* Overall Total	22	266	14	59	47	154	51	81	51	75	122	103	125	239	1,409
* Major-Specific Total	2	117	6	1	21	116	3	28	40	40	74	59	105		612

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		E10	
Chippewa Valley		E1			E3	E4			E6	E7	E8		E10	
Fox Valley		E1			E3	E4			E6	E7	E8		E10	
Gateway		E1			E3	E4			E6	E7	E8		E10	
Lakeshore		E1			E3	E4			E6	E7	E8		E10	
Madison		E1			E3	E4		E5	E6	E7	E8		E10	
Mid-State		E1			E3	E4			E6	E7	E8		E10	
Milwaukee		E1			E3	E4			E6	E7	E8		E10	
Moraine Park		E1			E3	E4			E6	E7	E8		E10	
Nicolet		E1			E3	E4			E6	E7	E8		E10	
Northcentral		E1			E3	E4			E6	E7	E8		E10	
Northeast WI		E1		E2	E3	E4			E6	E7	E8		E10	
Southwest WI		E1			E3	E4		E5	E6	E7	E8		E10	
Waukesha		E1			E3	E4			E6	E7	E8		E10	
Western		E1			E3	E4			E6	E7	E8		E10	
WI Indianhead		E1			E3	E4			E6	E7	E8	E9	E10	

E1 = WTCS Early Childhood Education to UW-Milwaukee Early Childhood Education (2011) & Community Education (2001)

E2 = WTCS Early Childhood Education to UW-Green Bay Education/Early Childhood or Midchildhood License Program (2009)

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

E4 = WTCS Early Childhood Education to UW-Oshkosh Education Licensure (Early-Middle Childhood & Early Child/Early Child Spec Ed) (2008)

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

E6 = WTCS Early Childhood Education to UW-River Falls Elementary Education (Early Child Minor) (2007)

E7 = WTCS Early Childhood Education to UW-Stevens Point Early Childhood Education (2006)

E8 = WTCS Early Childhood Education to UW-Stout Human Development/Family Studies (2009) & Early Childhood Education (2006)

E9 = WTCS Early Childhood Education to UW-Superior Elementary Education (Early Childhood Minor) (2009)

E10 = WTCS Early Childhood Education to UW-Whitewater Early Childhood Ed (2011)

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						7	1	1	5		16	53	89
Chippewa Valley	1	5	64	4	3	1		1	12	3	156	4	1	13	268
Fox Valley	4	14		23	3	150	2	5	1	16	22		2	113	355
Gateway	1	20	2		1	1	185	4		2	6	1	27	13	263
Lakeshore		4		7	1	2	1	1			16			65	97
Madison	81	25	4	2	3	10	5	22		7	18	3	34	28	242
Mid-State	1	3	6	4	2	6	1	1	1	79	6	1	1	31	143
Milwaukee	2	361	2	4	4	10	23	7		3	11		15	44	486
Moraine Park	1	8		6		22		2			9		2	59	109
Nicolet		2		3	1	3		2		8	12	2	2	4	39
Northcentral		7	6	2	1	5	1	4		22	47	1	2	69	167
Northeast WI	1	7	2	86	1	17		2		5	8	1	1	33	164
Southwest WI					3			33		1	3		2	20	62
Waukesha	3	86	1	2	1		6	2	1	4	14		15	70	205
Western	1	7	4		92	2		7	1	3	24	2	2	9	154
WI Indianhead	1	2	4					1	18	2	36	49		23	136
* Overall Total	101	553	95	143	116	229	224	101	35	156	393	64	122	647	2,979
* Major-Specific Total	6	269	32	32	47	69	85	45	15	74	309	25	64		1,072

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						C3						
Chippewa Valley		C1									C5			
Fox Valley		C1						C3			C5			
Gateway		C1												
Lakeshore		C1												
Madison		C1												
Mid-State		C1												
Milwaukee		C1												
Moraine Park		C1												
Nicolet		C1												
Northcentral		C1									C5			
Northeast WI		C1												
Southwest WI		C1						C3						
Waukesha		C1												
Western		C1			C2			C3			C5			
WI Indianhead		C1							C4					

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

C2 = WTCS Information Technology (IT) to UW-La Crosse Information Systems (2010)

C3 = WTCS Information Technology (IT) to UW-Platteville Business (2001, 2003), Agriculture (2002) & Computer Info Systems (2003)

C4 = WTCS Information Technology (IT) to UW-River Falls Computer Information Systems & Business (reviewed 2010)

C5= WTCS Information Technology (IT) to UW-Stout Computer Information Systems & Information Sciences (2006)

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				2		4			4	1	11	31	58
Chippewa Valley	1	6	95	1				3	9	5	224	4		12	360
Fox Valley		16	2	13	1	105	2	5		11	39	1	2	67	264
Gateway		19		1	2	5	127	2	1	1	11		24	7	200
Lakeshore	1	4		5		6				3	12		1	64	96
Madison	36	24	2	4	6	11	1	20	1	5	26		34	28	198
Mid-State		1	3			2	1		1	40	2	1		11	62
Milwaukee	1	103			3	9	11	4		2	6	1	4	13	157
Moraine Park	1	3		1	1	13		2			4		2	48	75
Nicolet		1	1	1				1		2		2		1	9
Northcentral		5	2	4	1	5	1	1	1	24	34	2		47	127
Northeast WI	1	21	1	169	1	30	2	1	1	8	23	1		19	278
Southwest WI								15			2			5	22
Waukesha	2	59	1	1		8	2	2	1	2	8		13	81	180
Western	5	10	3	5	229	4	2	8	3	8	44	3	3	21	348
WI Indianhead		1	3	1					15	2	29	36	1	20	108
* Overall Total	48	278	113	206	244	200	149	68	33	113	468	52	95	475	2,542
* Major-Specific Total	2	94	27	11	58	56	43	37	4	25	369	21	51		798

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								M2						
Chippewa Valley								M2			M3			
Fox Valley								M2			M3			
Gateway														
Lakeshore														
Madison														
Mid-State														
Milwaukee														
Moraine Park														
Nicolet														
Northcentral											M3			
Northeast WI														
Southwest WI														
Waukesha								M2						
Western					M1			M2			M3			
WI Indianhead														

M1 = WTCS Marketing to UW-La Crosse Business Administration (2010)

M2 = WTCS Marketing to UW-Platteville Business (2000, 2001) & Agriculture (2002)

M3 = WTCS Marketing to UW-Stout Business (2001-2007) & Marketing (2001-2006)

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	3		2		4	4	8		1	1	1	32	63	120
Chippewa Valley		2	56	1	3	3	1	5	16	4	90	7	1	16	205
Fox Valley	2	11	1	20	1	100	2	13	2	14	6	2	4	69	247
Gateway	1	26		1		9	172	7		1	2		22	10	251
Lakeshore		4		8	1	7		4		1	1			37	63
Madison	16	33	3	1	6	9	5	37		12	3	4	30	33	192
Mid-State		3	2	3	1	4		1		31	7	1		13	66
Milwaukee	2	290		1	1	7	25	4		5		1	10	17	363
Moraine Park	1	3		1		19	1	2		1	1		1	39	69
Nicolet		4	6	7		7	1	5	1	5		7		7	50
Northcentral	1	2	3	6	1	10	1	5	1	14	2		1	44	91
Northeast WI		19	1	169	3	35	4	7		7	1		1	34	281
Southwest WI					2	2		26						4	34
Waukesha	1	95	2		2	7	8	2	1	1	3		26	77	225
Western		1	4	1	43	2	2	9		3	6	2		5	78
WI Indianhead			7			1		1	5		20	37		24	95
* Overall Total	25	496	85	221	64	226	226	136	26	100	143	62	128	492	2,430
* Major-Specific Total	2	218	37	10	1	117	75	79	1	3		12	10		565

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		P5			P7	
Chippewa Valley										P5	P6			
Fox Valley						P2		P4		P5				
Gateway						P2	P3	P4		P5			P7	
Lakeshore						P2		P4		P5				
Madison		P1				P2		P4		P5			P7	
Mid-State						P2		P4		P5				
Milwaukee		P1						P4		P5			P7	
Moraine Park						P2				P5				
Nicolet						P2				P5				
Northcentral						P2		P4		P5				
Northeast WI						P2				P5				
Southwest WI						P2				P5				
Waukesha		P1				P2		P4		P5			P7	
Western						P2				P5				
WI Indianhead										P5				

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

P2 = WTCS Criminal Justice to UW-Oshkosh Criminal Justice (2002) & Human Resources/Services (2010)

P3 = WTCS Criminal Justice to UW-Parkside Criminal Justice (2000, 2002)

P4 = WTCS Criminal Justice to UW-Platteville Criminal Justice (2006, 2007)

P5 = WTCS Criminal Justice to UW-Stevens Point Environmental Law Enforcement (2007)

P6 = WTCS Criminal Justice to UW-Stout Vocational Rehabilitation (Criminal Justice - Concentration) (2002)

P7 = WTCS Criminal Justice to UW-Whitewater Sociology - Criminal Justice Emphasis (2005, 2010)

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	9	39	62
Chippewa Valley			75	2	2	1	1	3	11	3	44	1		14	157
Fox Valley		2	1	10	2	49	1	3		7	5	2	3	33	118
Gateway		12			1	2	119	4		1	3		34	9	185
Lakeshore		3		5		6		1		2	2	2	1	41	63
Madison	38	11	6	2	5	9	1	32		5	7	1	49	44	210
Mid-State			1	2	1			5		45	3		1	12	70
Milwaukee	1	206		6		4	7	3		3	1		8	14	253
Moraine Park		7		3	1	19	1	3		1	3	1	7	58	104
Nicolet		1	1	9		1		5		3		8	1	3	32
Northcentral			2	4	1	4	2	6		14	8	3	2	43	89
Northeast WI	1	4	1	94		8	1	2	1	4	4	1	4	44	169
Southwest WI			1		2			15						8	26
Waukesha		30		3		2	2	1				1	12	42	93
Western	1	1	3	1	69	2		6	3	2	14	2	7	14	125
WI Indianhead			2	2	1			5	24	2	15	49		19	119
* Overall Total	42	279	93	143	85	108	136	99	39	93	110	73	138	437	1,875
* Major-Specific Total	7	131	54	23	45	38	64	79	22	28	75	30	86		682

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								A2						
Chippewa Valley								A2			A4			
Fox Valley								A2						
Gateway														
Lakeshore														
Madison														
Mid-State														
Milwaukee														
Moraine Park														
Nicolet														
Northcentral											A4			
Northeast WI														
Southwest WI														
Waukesha								A2						
Western					A1			A2						
WI Indianhead									A3			A5		

A1 = WTCS Accounting to UW-La Crosse Business (2010)

A2 = WTCS Accounting to UW-Platteville Business (2000-2003) & Agriculture (2002)

A3 = WTCS Accounting to UW-River Falls Business & Computer Information System (reviewed 2010)

A4 = WTCS Accounting to UW-Stout Business & Marketing (2001, 2011)

A5 = WTCS Accounting to UW-Superior Business (2006, 2007)

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		2			1	1		3			4		7	60	78
Chippewa Valley		3	50	2	2			4	5		112			7	185
Fox Valley	2	9	1	11	2	46	1	7		9	72	1		140	301
Gateway	1	25			1		102	4	1	1	18		12	14	179
Lakeshore	1	3	3	4		4		2		1	14			66	98
Madison	59	45	4	4	8	6	2	28	1	6	27	3	15	48	256
Mid-State	1	7	1	2	3	5	1	8	2	47	11			33	121
Milwaukee	8	271	1	4	3	7	20	4		5	22	3	5	45	398
Moraine Park	5	20	1	2	1	21	2	14	1	1	26			122	216
Nicolet				3	1			1	2		1				8
Northcentral	2	14	4	2	3	9	4	2	4	31	76	1		128	280
Northeast WI	2	23	2	83		18		9	2	14	51	1	1	64	270
Southwest WI	3	1			1			29			2		1	13	50
Waukesha	5	127	1	4		5	3	7		1	27		7	110	297
Western	1	6	2		64			10		1	20		3	11	118
WI Indianhead		4	3			1	1	1	11	1	52	10		21	105
* Overall Total	90	560	73	121	90	123	136	133	29	118	535	19	51	882	2,960
* Major-Specific Total	22	218					1	53		2	174		1		471

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											T5			
Fox Valley											T5			
Gateway							T3	T4			T5			
Lakeshore														
Madison														
Mid-State														
Milwaukee											T5			
Moraine Park								T4						
Nicolet														
Northcentral											T5			
Northeast WI											T5			
Southwest WI														
Waukesha		T1						T4						
Western					T2			T4						
WI Indianhead														

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

T2 = WTCS Engineering Technology to UW-La Crosse Computer Science (Engineering Technology Emphasis) (2010)

T3= WTCS Engineering Technology to UW-Parkside Geoscience (2010)

T4 = WTCS Electronic Technology/Mechanical Design/Fluid Power Technology to UW-Platteville Technology Education/Industrial Technology Management (2000, 2003)

T5 = WTCS Engineering Technology /Electronic Technology/ Mechanical Design/ Architecture/Technical Studies to UW-Stout Engineering Technology (2007, 2008) & Construction (2002, 2011), Manufacturing Engineering (2008) & Industrial Technology (2005)

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		8	218	1	7	2	1	1	57	8	98	3		7	411
Madison	3,169	717	167	77	239	221	48	311	45	277	120	35	975	460	6,861
Milwaukee	72	2,582	10	23	31	85	144	27	4	45	32	8	152	215	3,430
Nicolet	58	47	60	68	35	65	4	17	25	238	81	62	24	68	852
Western		5	7	1	85	1		4		2	11		3	11	130
Overall Total	3,299	3,359	462	170	397	374	197	360	131	570	342	108	1,154	761	11,684

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 2012-13. 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 2012-13. 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 each of their programs to a CIP code 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
		49 - Transportation and Materials Moving
		29 - Military Technologies
12	Social Sciences	42 - Psychology
		45 - Social Sciences
		54 - History
13	Trades/Technical	46 - Construction Trades
		47 - Mechanic and Repair Technologies/Technicians
		48 - Precision Production Trades

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	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	Criminal Justice	21051	CIP 11 21051
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			