

IOWA WESTERN COMMUNITY COLLEGE

2004 – 2005



DEVELOPMENTAL EDUCATION COURSE SUCCESS REPORT

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February 2006**

DEVELOPMENTAL EDUCATION REPORT
Academic Year 2004-2005
Iowa Western Community College

Overview:

Student success in developmental education coursework has been a precursor for continued college success at the post-secondary level. The reasons for students needing remedial education in mathematics, reading or writing are numerous. As an open door institution, Iowa Western Community College provides coursework in developmental education to provide an academic foundation for students as they pursue higher level courses within their chosen programs of study.

Prior studies indicate that the number of students who entrance test below college-level academic readiness at Iowa Western Community College continues to increase.

The academic “success” of students in developmental education at Iowa Western has been formally tracked since the 2000 - 2001 academic year. This year’s report analyzes student enrollments and success during 2004 - 2005 as well as a comparison of enrollments and success during the past five years. It is presented in two components:

- Part I: Academic year 2004-2005 enrollment and success data
- Part II: Academic years 2001 through 2005 comparative data and trend lines

The information included in this report provides a snapshot of the developmental education program at the college. Included in this review is the data for reading, writing, and math developmental courses. ESL enrollments and course success are not part of this analysis.

Part I: DEVELOPMENTAL EDUCATION ENROLLMENT AND SUCCESS DATA 2004-2005

Introduction:

This component of the report focuses on enrollment and success data for each of the developmental (non-ESL) courses offered by Iowa Western Community College during the 2004 – 2005 academic year. Student success in “next level” discipline as well as non-developmental courses in each of the DEV courses has been analyzed. Course enrollments and success continuing through the fall 2005 term were tracked. The DEV course offerings include:

- DEV083D Writing Foundations
- DEV081D Reading Foundations
- DEV087D Introduction to College Reading
- DEV052D Math Foundations
- DEV054D Pre-Algebra Math
- DEV088D Introductory Algebra

This report and analysis reviews:

- Total enrollments (duplicated if students repeated in a developmental education course).
- Success in each developmental course as defined by the letter grade awarded students at the end of the term. Course success is defined as an earned grade of an A, B or C.
- Enrollment success in higher level courses within a specific discipline; i.e.,
 - DEV083D Writing Foundations → ENG100A or ENG101A
 - DEV081D Reading Foundations → DEV087D Introduction to College Reading
 - DEV052D Math Foundations → DEV054D Pre-Algebra Math → DEV088D Introductory Algebra → MAT111T and/or MAT112T and/or MAT125A and/or MAT150A and/or MAT154A and/or MAT145A and/or MAT236A.
- Enrollment success in all other non-DEV courses in which the student was enrolled from fall 04 through fall 05.

Many variables impact student success in coursework regardless of the academic level study skills, academic preparation or discipline. The focus of this report is a comparative analysis of course enrollments vs. course success irrespective of these variables. A review of data from each of the developmental course success profiles supports the following conclusions:

- ✓ *Students earning an A, B, or C in developmental courses complete higher level courses within the discipline as well as all courses with a greater degree of academic success than students who earn a D, F, W or I in a developmental course.*
- ✓ *Students who are successful in developmental courses complete a greater number of other college level courses compared to students who perform poorly in developmental courses. (Grade prerequisites for next level courses as well as the relationship between the grade point average (G P A) and financial aid may be factors in student retention beyond the developmental course level.)*
- ✓ *A large number of students who were counted as not successful (D,F,I,W)(see table 1.) in DEV development courses withdrew (w) from the respective DEV course.*

The following notes the grade distribution for each development course.

Table 1. Analyzes Grade Distribution. (2004-05 Enrollments only)

Course	Grade A		Grade B		Grade C		Grade D		Grade F		Withdrew		Total
	#	%	#	%	#	%	#	%	#	%	#	%	
DEV 052D Math Foundations													
A-W	50	16.4%	62	20.4%	43	14.1%	21	6.9%	55	18.1%	73	24.0%	304
A-F	50	21.6%	62	26.8%	43	18.6%	21	9.1%	55	23.8%	-	-	231
DEV054D Pre Algebra Math													
A-W	49	13.8%	84	23.6%	60	17.3%	23	6.6%	43	12.4%	97	28.0%	356
A-F	49	18.9%	84	32.4%	60	23.2%	23	8.9%	43	16.6%	-	-	259
DEV087D Intro to College Reading													
A-W	4	8.0%	10	20.0%	6	12.0%	8	16.0%	14	28.0%	8	16.0%	50
A-F	4	9.5%	10	23.8%	6	14.3%	8	19.0%	14	33.3%	-	-	42
DEV088D Intro to Algebra													
A-W	114	20.0%	119	20.9%	115	20.2%	34	6.0%	80	14.0%	108	18.9%	570
A-F	114	24.7%	119	25.8%	115	24.9%	34	7.4%	80	17.3%	-	-	462
DEV083D Writing Foundations													
A-W	6	7.1%	17	20.0%	23	27.1%	5	5.9%	17	20.0%	17	20.0%	85
A-F	6	8.8%	17	25.0%	23	33.8%	5	7.4%	17	25.0%	-	-	68
TOTAL A-W	223	16.3%	292	21.4%	247	18.1%	91	6.7%	209	15.3%	303	22.2%	1365
TOTAL A-F	223	21.0%	292	27.5%	247	23.3%	91	8.5%	209	19.7%	-	-	1062

**DEVELOPMENTAL COURSE ENROLLMENT DATA
2004-2005 Enrollments**

1. Developmental Writing - Writing Foundations DEV083D

Enrollment data reflects initial DEV083D enrollment during 2004-05 academic year. In addition, some students repeated DEV083D in fall 2005. Enrollment totals include "repeats".

a. Course Enrollment Data

Number Enrolled	A, B, C Grades	Percentage	D, F, W, I Grades	Percentage
83	46	55.4%	37	44.6%

- b. Number who failed, repeated and earned a C or higher: 2
 c. Number who failed, repeated and earned a D, F, W or I: 4

d. Enrollment success in higher level ENG Courses through Fall 2005

DEV 083* A, B, C Grade	ENG100A		Percentage Successful	Percentage Unsuccessful
	A,B,C	D,F,W,I		
28	15	13	53.6%	46.4%
	ENG101A			
18	11	7	61.1%	38.9%

DEV 083* D,F,W,I Grade	ENG100A		Percentage Successful	Percentage Unsuccessful
	A,B,C	D,F,W,I		
6	2	4	33.3%	67.3%
	ENG101A			
1	0	1	0	100%

	ENG100A		Percentage Successful	Percentage Unsuccessful
	A,B,C	D,F,W,I		
Total 34	17	17	50.0%	50.0%
	ENG101A			
Total 19	11	8	57.9%	42.1%
TOTAL 53	28	25	52.8%	47.2%

**Unduplicated head count (a student may have enrolled in more than one or repeated ENG course).*

e. Enrollment success in Arts & Science courses through Fall 2005 (excluding DEV & CTE courses).

Number of Students DEV 083 A,B,C Grades	Number of A & S Course Enrollments Total	Number of A & S Course Enrollments A,B,C Grades	Number of A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
46	354	210	144	59.3%	40.7%

Average course enrollments: 7.8

Number of Students DEV 083 D,F,W,I Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
34	135	23	112	17.0%	83.0%

Average course enrollments: 6.4

Total Number of DEV 083 students in A & S Courses	Total A & S Course Enrollments	Total A & S Course Enrollments A,B,C Grades	Total A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
80	489	233	256	47.6%	52.4%

II. Developmental Reading

A. Reading Foundations DEV081D

a. Course Enrollment Data

Number Enrolled	A, B, C Grades	Percentage	D, F, W, I Grades	Percentage
0	0	0	0	0

b. Number who repeated and earned a C or higher: - 0

c. Number who repeated and earned a D, F, W or I: - 0

d. Enrollment success in courses through Fall 2005: - 0

Number of Students* DEV 081D A,B,C Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
-	-	-	-	-	-

Number of Students DEV 081D D,F,W,I Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
-	-	-	-	-	-

*Unduplicated Headcount

Total Number of Students DEV 081D	Total Number of A & S Course Enrollments	Number of A & S Course Enrollments A,B,C Grades	Number of A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
-	-	-	-	-	-

B. Intro to College Reading DEV087D

Enrollment data reflects initial DEV087D enrollment during 2004-05 academic year. In addition, some students repeated DEV087D in fall 2005. Enrollment totals include "repeats".

a. Course Enrollment Data *

Enrollments	A, B, C Grades	Percentage	D, F, W, I Grades	Percentage
51	20	39.2%	31	60.8%

b. Number who failed, repeated and earned a C or higher: 0

c. Number who failed, repeated and earned a D, F, W or I: 3

d. Enrollment success in Arts and Sciences courses through Fall 2005 .

*Does not include DEV or CTE courses

Number of Students* DEV 087D A,B,C Grades	Number of A & S Course Enrollments Total	Number of A & S Course Enrollments A,B,C Grades	Number of A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
19	150	91	59	60.7%	39.3%

*Unduplicated headcount

Number of Students* DEV 087D D,F,W,I Grades	Number A & S Course Enrollments Total	Number of A & S Course Enrollments A,B,C Grades	Number of A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
27	112	43	69	38.4%	61.6%

*Unduplicated headcount

Total Number of Students*	Total Number A & S Course Enrollments	Number of A & S Course Enrollments A,B,C Grades	Number of A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
46	262	134	128	51.1%	48.9%

*Unduplicated headcount

III. Developmental Math - Math Foundations DEV052D

Enrollment data reflects initial DEV052D enrollment during 2004-05 academic year. In addition, some students repeated DEV052D in fall 2005. Enrollment totals include "repeats".

a. Course Enrollment Data

Enrollments	A, B, C Grades	Percentage	D, F, W, I Grades	Percentage
315	158	50.1%	157	49.9%

b. Number who repeated and earned a C or higher: 14

c. Number who repeated and earned a D, F, W or I: 23

d. Enrollment success in succeeding developmental and higher level math courses through FA05.

DEV052D* A,B,C,	DEV054D		DEV088D		MAT100T		MAT111T		MAT112T		MAT125A		MAT150A		MAT154A		MAT236A	
	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI
111	76	34	39	36	-	-	1	2	0	0	3	2	16	21	2	4	3	1

*Unduplicated headcount; students may have multiple enrollments in other DEV/MAT courses

Percentage Successful (A, B, C): 58.3 %

Percentage Unsuccessful (D,F, W, I): 41.7%

DEV052D* A,B,C,	DEV054D		DEV088D		MAT100T		MAT111T		MAT112T		MAT125A		MAT150A		MAT154A		MAT236A	
	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI
61	17	63	13	14	1	1	0	0	0	1	1	1	3	9	1	1	0	2

*Unduplicated headcount

Percentage Successful (A, B, C): 28.3 %

Percentage Unsuccessful (D,F, W, I): 71.6 %

TOTAL ENROLLMENTS

DEV052D* A,B,C,	DEV054D		DEV088D		MAT100T		MAT111T		MAT112T		MAT125A		MAT150A		MAT154A		MAT236A	
	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI
172	93	97	52	50	1	1	1	2	0	1	4	3	19	30	3	5	3	3

*Unduplicated headcount

Percentage Successful (A,B,C): 47.9 %

Percentage Unsuccessful (D,F,W,I): 52.1%

e. Enrollment success in Arts and Science courses through FA05. (excluding DEV & CTE courses)

Number of Students* DEV 052D A,B,C Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
152	1,183	769	414	65.0%	35.0%
Number of Students* DEV 052D D,F,W,I Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
109	701	284	417	40.5%	59.5%

Number of Students* DEV 052D	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W, I Grades	Percentage Course Successful	Percentage Course Unsuccessful
261	1,884	1,053	831	55.9%	44.1%

- Unduplicated headcount

B. Pre-Algebra Math DEV054D

Enrollment data reflects initial DEV054D enrollment during 2004-05 academic year. In addition, some students repeated DEV054D in fall 2005. Enrollment totals include "repeats".

a. Course Enrollment Data

Number Enrolled	A, B, C Grades	Percentage	D, F, W, I Grades	Percentage
367	198	56.0%	169	46.0%

b. Number of re-enrollments who earned a C or higher: 15

c. Number of re-enrollments who earned a D, F, W or I: 26

d. Enrollment success in succeeding developmental and higher level math courses through FA05.

DEV054D* A,B,C,	DEV088D		MAT100T		MAT111T		MAT112T		MAT125A		MAT150A		MAT154A		MAT156A		MAT236A	
	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI
161	108	83	-	-	1	-	0	0	4	4	47	47	9	8	1	0	7	7

Percentage Successful (A,B,C): 54.2%

Percentage Unsuccessful (D,F,W,I): 45.8%

DEV054D* A,B,C,	DEV088D		MAT100T		MAT111T		MAT112T		MAT125A		MAT150A		MAT154A		MAT156A		MAT236A	
	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI
50	9	37	0	2	-	-	0	1	2	4	4	12	0	4	0	1	0	3

Percentage Successful (A,B,C): 19.0%

Percentage Unsuccessful (D,F,W,I): 81.0%

TOTAL ENROLLMENTS

DEV054D* A,B,C,	DEV088D		MAT100T		MAT111T		MAT112T		MAT125A		MAT150A		MAT154A		MAT156A		MAT236A	
	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI	ABC	DFWI
211	117	120	0	2	1	0	0	1	6	8	51	59	9	12	1	0	7	10

*Unduplicated head count in DEV054D

Percentage Successful (A,B,C): 47.3%

Percentage Unsuccessful (D,F,W,I): 52.7%

e. Enrollment success in courses through FA05 (excluding DEV & CTE courses).

Number of Students* DEV054D A,B,C, Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W,I Grades	Percentage Course Successful	Percent Course Unsuccessful
194	1,742	1,139	603	65.3%	34.6%

Number of Students* DEV054D D,F,W,I, Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W,I Grades	Percentage Course Successful	Percent Course Unsuccessful
120	828	358	470	43.2%	56.8%

Number of Students* DEV054D	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W,I Grades	Percentage Course Successful	Percent Course Unsuccessful
314	2,570	1,497	1,073	58.2%	41.8%

* Unduplicated headcount

C. Introductory Algebra DEV088D

Enrollment data reflects initial DEV088D enrollment during 2004-05 academic year. In addition, some students repeated DEV088D in fall 2005. Enrollment totals include "repeats".

a. Course Enrollment Data

Enrollments	A, B, C Grades	Percentage	D, F, W, I Grades	Percentage
584	351	60.1%	233	39.9%

* Majority of grades are "W".

b. Number who repeated and earned a C or higher: 34

c. Number who repeated and earned a D,F,W or I: 41

d. Enrollment in next level Math courses through FA05:

DEV088D A,B,C,	MAT100T		MAT111T		MAT112T		MAT113T		MAT125A		MAT150A		MAT154A		MAT156A		MAT171A		MAT236A	
	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW
306	-	-	0	1	1	0	0	0	14	5	196	121	58	41	7	-	1	0	41	34

*Unduplicated Count – Students may have multiple enrollments in MAT courses.

Percentage Successful (ABC) 61.2%

Percentage Unsuccessful (DFWI): 38.8%

DEV088D A,B,C,	MAT100T		MAT111T		MAT112T		MAT113T		MAT125A		MAT150A		MAT154A		MAT156A		MAT171A		MAT236A	
	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW
47	-	-	-	-	0	1	0	1	3	5	2	38	0	3	-	-	-	-	2	3

*Unduplicated Count – Students may have multiple enrollments in MAT courses.

Percentage Successful (ABC) 12.1%

Percentage Unsuccessful (DFWI): 87.9%

TOTAL ENROLLMENTS

DEV088D A,B,C,	MAT100T		MAT111T		MAT112T		MAT113T		MAT125A		MAT150A		MAT154A		MAT156A		MAT171A		MAT236A	
	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW	ABC	DFW
353	-	-	-	1	1	1	0	1	17	10	198	159	58	44	7	-	1	-	43	37

*Unduplicated Count – Students may have multiple enrollments in MAT courses.

Percentage Successful (ABC) 56.2%

Percentage Unsuccessful (DFWI): 43.8%

e. Enrollment success in courses through FA05 (excluding DEV & CTE courses).

Number of Students* DEV088D A,B,C, Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W,I Grades	Percentage Course Successful	Percent Course Unsuccessful
342	3,660	2,683	977	73.3%	26.7%

Number of Students* DEV088D D,F,W,I, Grades	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W,I Grades	Percentage Course Successful	Percent Course Unsuccessful
162	1,006	428	578	42.5%	57.5%

Number of Students* DEV088D	A & S Course Enrollments Total	A & S Course Enrollments A,B,C Grades	A & S Course Enrollments D,F,W,I Grades	Percentage Course Successful	Percent Course Unsuccessful
504	4,666	3,111	1,555	66.7%	33.3%

* Unduplicated headcount

Part II: ANALYSIS OF 2000-01 through 2004-05 DATA

Introduction:

Part II of the developmental education success report presents a comparison of developmental education data tabulated during the past five academic years. The analysis profiles course enrollments and success rates for those students enrolled in developmental education (non-ESL) courses from 2000 – 2001 through the 2004 – 2005 academic years. Developmental education course enrollments and success rates are calculated based upon enrollments through the 2004-2005 academic year. Some DEV repeat enrollments from fall 2005 are also included in the total. Success in higher level discipline as well as arts and sciences courses reflect enrollments through the fall of 2005.

Summary data and representative graphs include comparisons for each of the developmental courses and indicate:

- Enrollments by headcount
- Course success as defined by grade awarded (A, B, C vs. D, F, I, W)
- Enrollments in higher level courses within the discipline, specifically math and English
- Course success in higher level courses within the discipline
- Enrollments in other non-DEV and CTE courses
- % Course success (A, B, C vs. D, F, I, W) in other non-DEV and CTE courses

Trends in enrollments and course success:

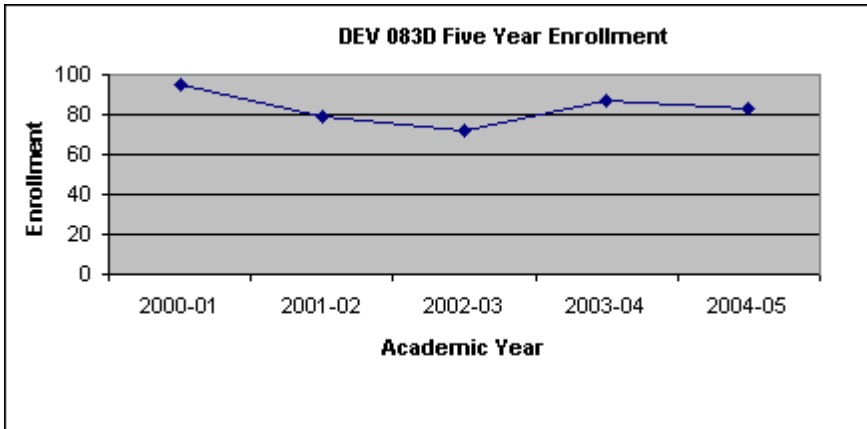
The following are general observations concerning enrollments and success data studied during the past four academic years. Each of the developmental education courses is profiled.

DEV083D Writing Foundations

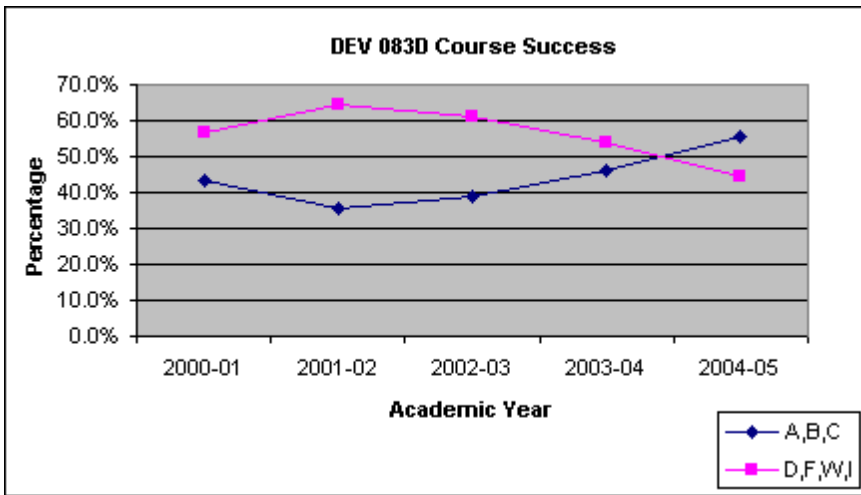
- Course enrollments have declined 12.6% from AY 00-01 through AY 04-05. Enrollments are above the low point established in AY 02-03.
- Course success was at its highest level in five years with 55.4% of the students earning A, B, or C grades.
- The five year average for course success is 43.8%.
- Course success rates in higher level English courses were slightly lower when compared to AY 04 data and has declined the past three years.
- Course success in other courses declined to 47.6% after increasing from AY00-01 through AY03-04.

Summary data depicting Writing Foundations enrollments and course success is presented on the next page.

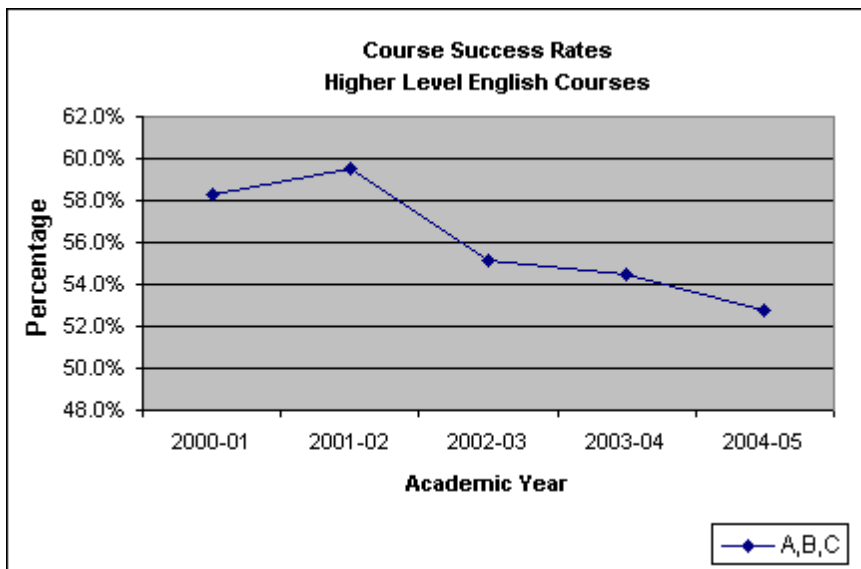
DEV083 WRITING FOUNDATIONS



Academic Year	Headcount
2000-01	95
2001-02	79
2002-03	72
2003-04	87
2004-05	83



Academic Year	A,B,C	D,F,W,I
2000-01	43.2%	56.8%
2001-02	35.4%	64.6%
2002-03	38.9%	61.1%
2003-04	46.0%	54.0%
2004-05	55.4%	44.6%



Academic Year	A,B,C
2000-01	58.3%
2001-02	59.5%
2002-03	55.1%
2003-04	54.5%
2004-05	52.8%

DEV081D Reading Foundations

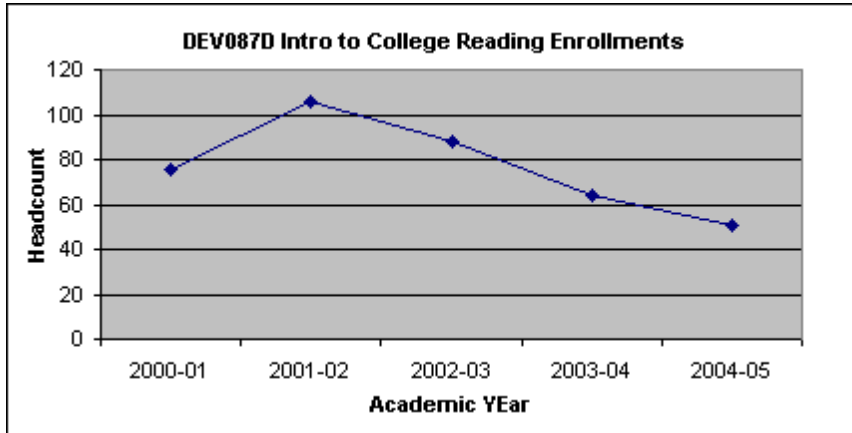
- No enrollments during AY 2003, 2004 nor 2005.

DEV087D Introduction to College Reading

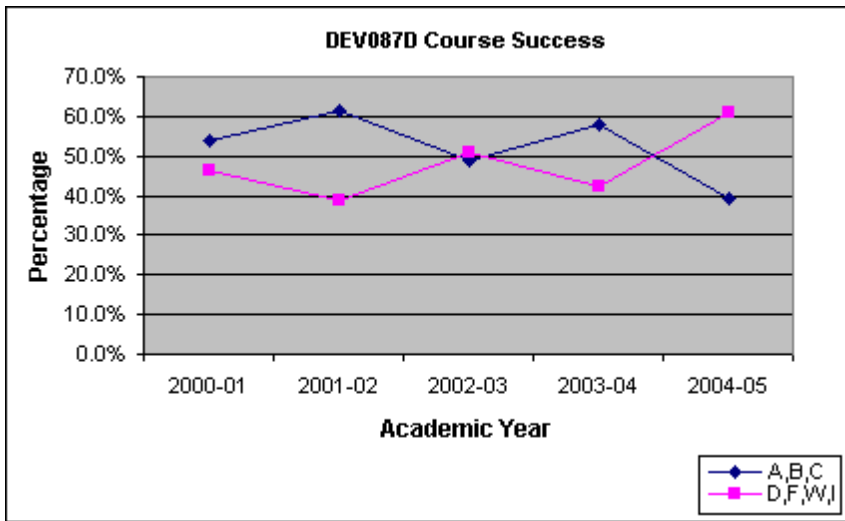
- Course enrollments declined 21.9% between AY 2004 and AY 2005 and reflect a five-year low point in enrollments.
- Student success (A, B, C) declined to 39.2%, the lowest percentage rate in five years.
- Since fewer students were enrolled in Introduction to College Reading during the 04/05 academic year, this translated into fewer total enrollments in other courses as well.
- Course success in other courses (A, B, C) declined for the third year.

Summary data in enrollment patterns and course success for Reading Foundations and Introduction to College Reading are presented in graphical format on the next pages.

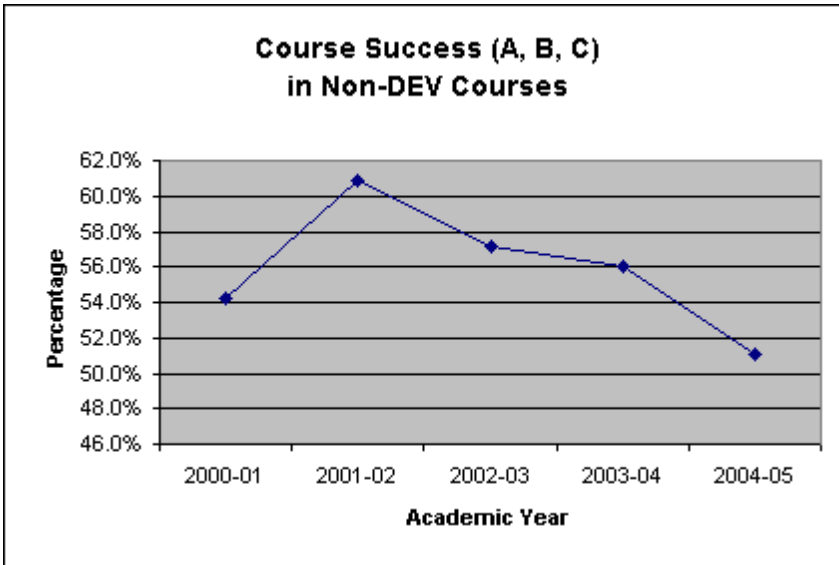
DEV087D INTRO TO COLLEGE READING



Academic Year	Headcount
2000-01	76
2001-02	106
2002-03	88
2003-04	64
2004-05	51



Academic Year	A,B,C	D,F,W,I
2000-01	53.9%	46.1%
2001-02	61.3%	38.7%
2002-03	48.9%	51.1%
2003-04	57.8%	42.2%
2004-05	39.2%	60.8%



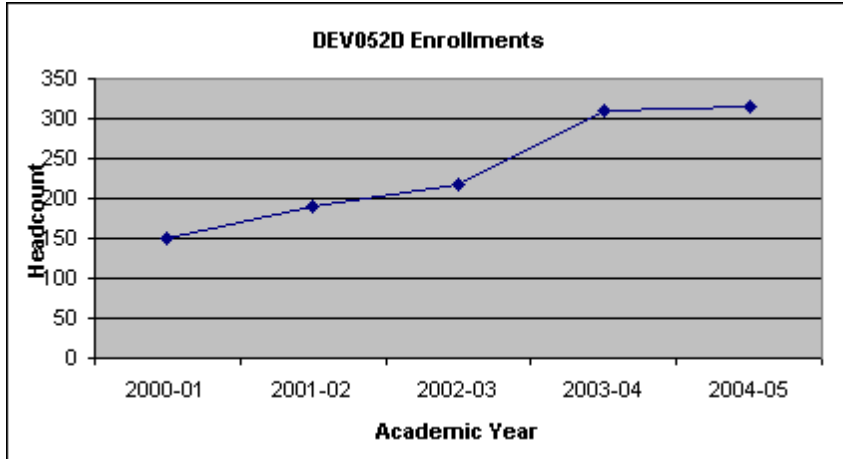
Academic Year	A,B,C
2000-01	54.2%
2001-02	60.9%
2002-03	57.1%
2003-04	56.0%
2004-05	51.1%

DEV052DMath Foundations

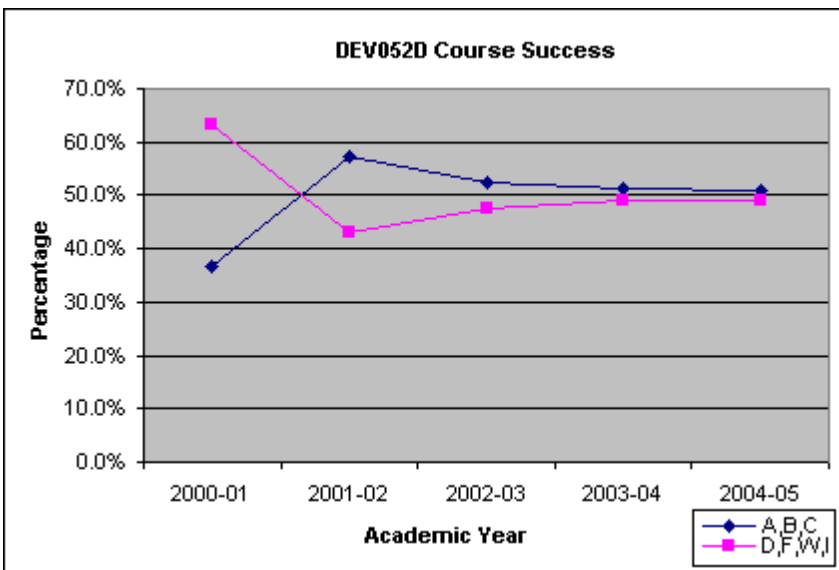
- Course enrollments are comparable to the prior year and reflect a 101.3% increase during the past five years.
- Course success rates were comparable from AY 2003 to 2005. Success rates are still higher than the AY 2001 rate when slightly more than one-third of the students were successful.
- Course success rates in succeeding developmental math or MAT courses were significantly lower (4.3%) in AY 2005 when compared to the previous year. The downward trend in course success in succeeding math courses has occurred since 2001-02.
- Higher enrollments in Math Foundations courses also translated into higher enrollments in other college courses. Course success in these courses declined 3% from AY 2004 to AY 2005.

Summary data in enrollment patterns and course success for Math Foundations is provided in graphical format on the next page.

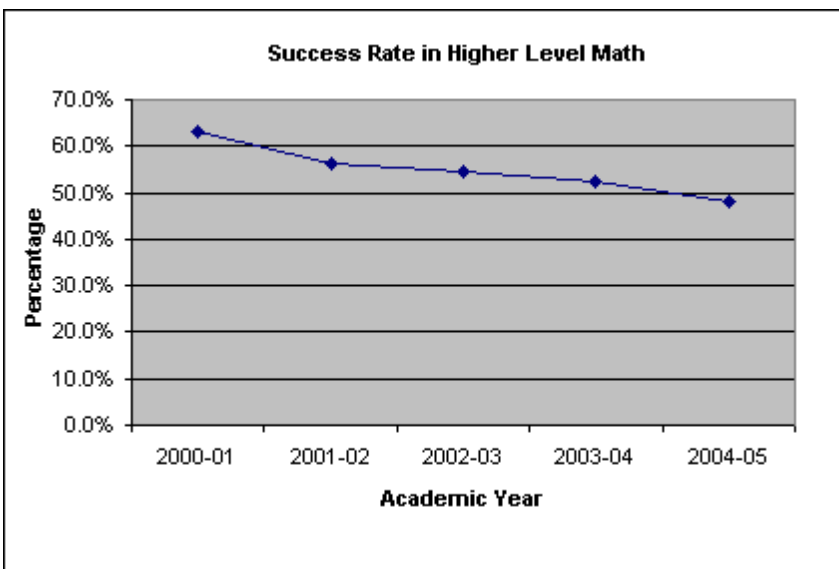
DEV052D MATH FOUNDATIONS



Academic Year	Headcount
2000-01	150
2001-02	189
2002-03	217
2003-04	311
2004-05	315



Academic Year	A,B,C	D,F,W,I
2000-01	36.7%	63.3%
2001-02	57.1%	42.9%
2002-03	52.5%	47.5%
2003-04	51.1%	48.9%
2004-05	51.0%	49.0%



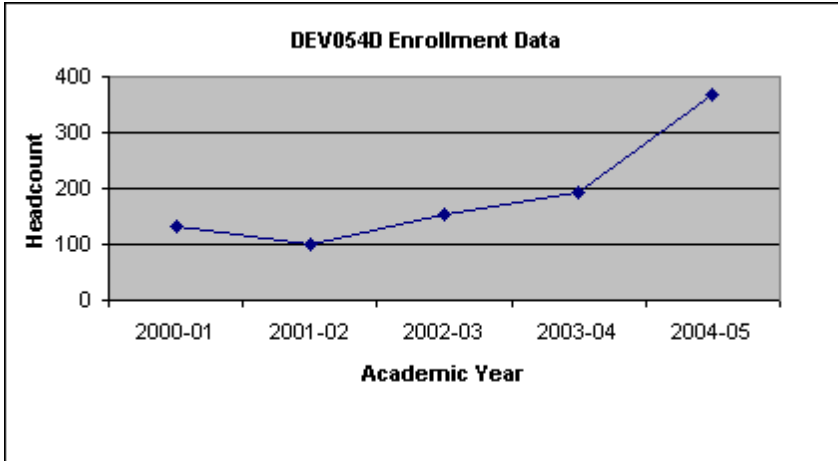
Academic Year	Headcount	A,B,C
2000-01	63.2%	
2001-02	56.1%	
2002-03	54.4%	
2003-04	52.2%	
2004-05	47.9%	

DEV054D Pre-Algebra Math

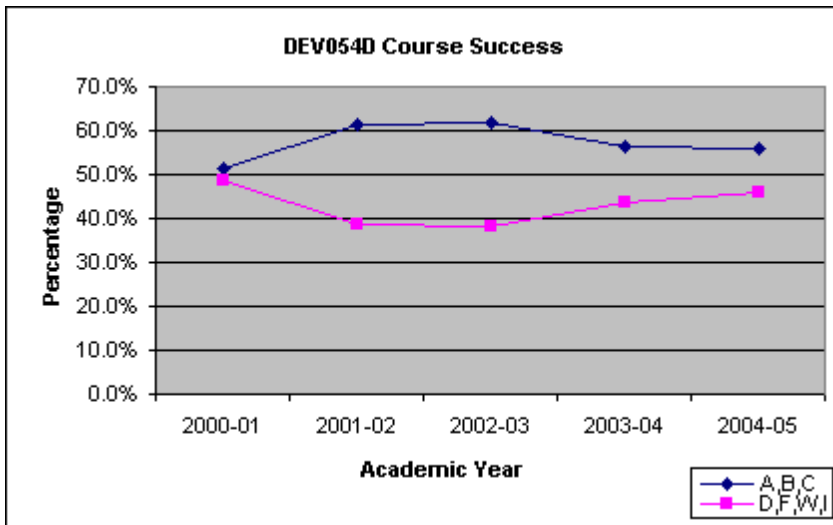
- Course enrollments increased 90% from AY 2004 to AY 2005 and have increased 170% since AY 2001.
- Course success in Pre-Algebra Math is comparable to AY2004. 56.0% of the students enrolling earned an A, B, or C.
- Course enrollments in succeeding developmental and college-level math increased significantly, compared to prior year's enrollment, continuing an upward trend. This correlates to the increased enrollment pattern also noted with Math Foundations.
- Course success declined 47.3% comparable to a three year low in AY 2003.
- Enrollments in other courses also increased significantly from AY 2004 to 2005. Course success declined to 58.2%.

On the next page are tables as well as graphs reflecting enrollments and course success in Pre-Algebra Math.

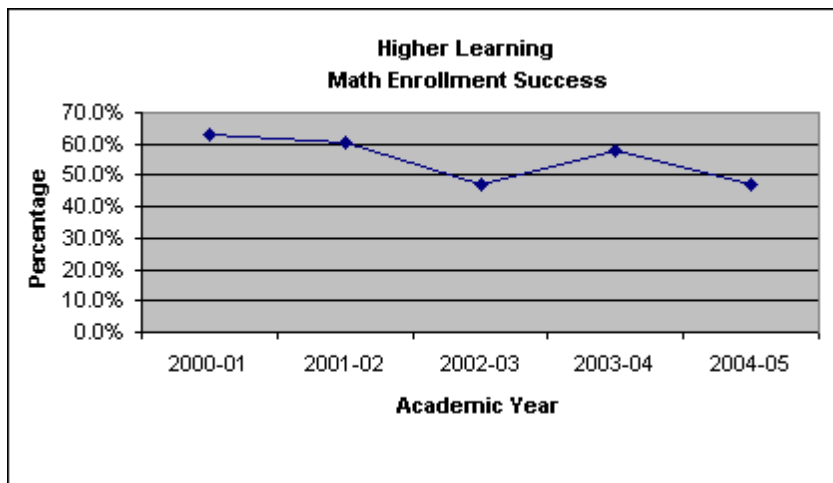
DEV054D PRE-ALGEBRA MATH



Academic Year	Headcount
2000-01	132
2001-02	101
2002-03	152
2003-04	193
2004-05	367



Academic Year	A,B,C	D,F,W,I
2000-01	51.5%	48.5%
2001-02	61.4%	38.6%
2002-03	61.8%	38.2%
2003-04	56.5%	43.5%
2004-05	56.0%	46.0%



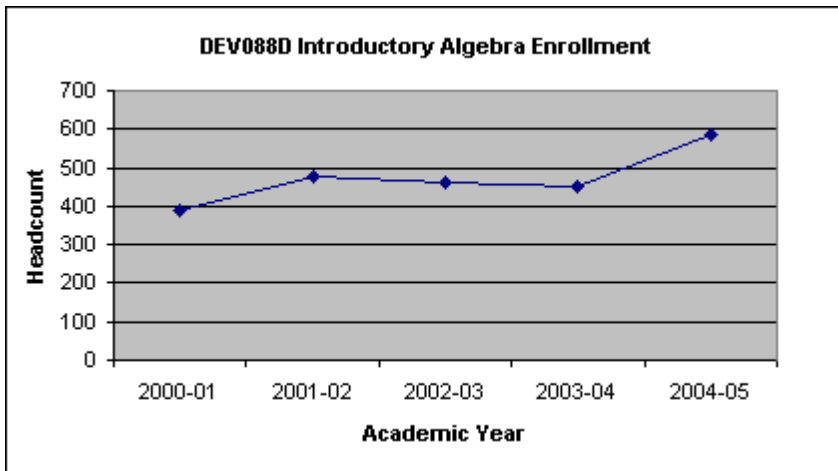
Academic Year	A,B,C
2000-01	62.9%
2001-02	60.6%
2002-03	47.0%
2003-04	57.6%
2004-05	47.3%

DEV088D Introductory Algebra

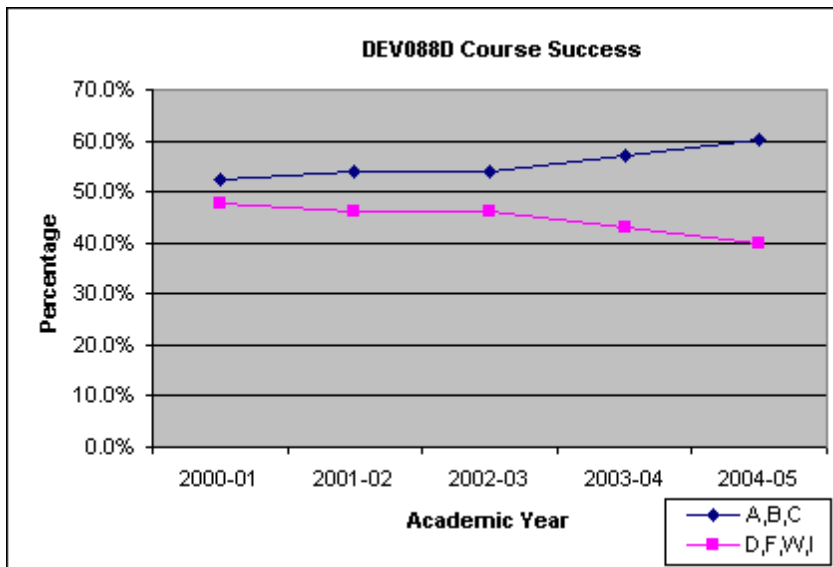
- Course enrollments increased significantly from AY 2004 to AY 2005 to the highest level in course history.
- Course success (A, B, C) improved by 3% from AY 2004 to AY 2005 continuing a gradual upward trend since AY 2001.
- Headcount enrollments in higher level math courses increased significantly from AY 2004 to AY 2005.
- Course success (A, B, C) in higher level math courses improved 56.2% continuing a two year trend.
- Total enrollments in other courses increased approximately 27.0% from AY 2004 to AY 2005.
- Success in other college courses was comparable to the prior academic year (66.7%).

On the next page are tables as well as graphs reflecting enrollments and course success in Introductory Algebra.

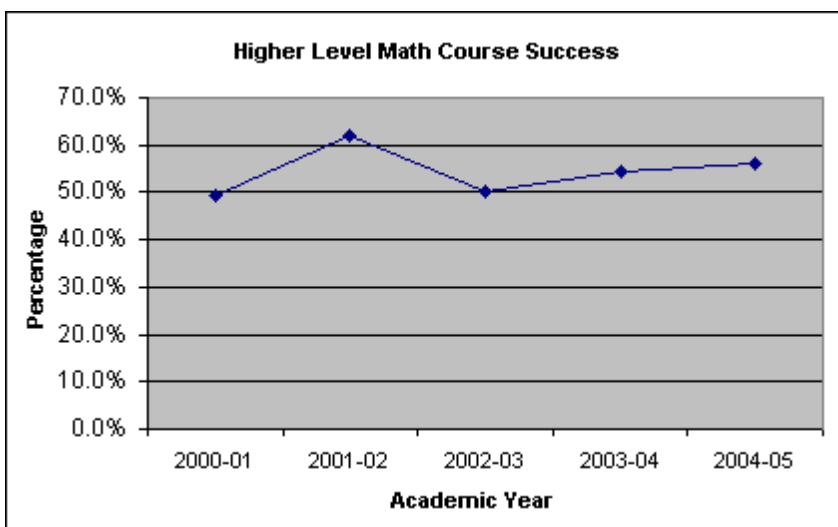
DEV088D INTRODUCTORY ALGEBRA



Academic Year	Headcount
2000-01	390
2001-02	479
2002-03	462
2003-04	451
2004-05	584



Academic Year	A,B,C	D,F,W,I
2000-01	52.3%	47.7%
2001-02	53.9%	46.1%
2002-03	53.9%	46.1%
2003-04	57.0%	43.0%
2004-05	60.1%	39.9%



Academic Year	A,B,C
2000-01	49.3%
2001-02	62.0%
2002-03	50.2%
2003-04	54.4%
2004-05	56.2%

Summary:

As noted earlier, academic success (A, B, or C grades) in developmental as well as college-level courses is dependent upon multiple variables. These factors range from socio-economic to academic preparedness to situational variables that impact student abilities, motivation and commitment to learning.

Developmental education course enrollments and course success as well as enrollments and course success in higher level discipline and college transfer courses at Iowa Western Community College reflect the following general trends.

1. With the exception of Introduction to College Reading, enrollments in developmental education courses have increased during the past five years.
2. Less success in Writing Foundations (A, B, C), has improved 20% during the past four years.
3. Of those students who enrolled in Writing Foundations and then enrolled in higher level ENG courses, over 50% were successful (A, B, C).
4. The trend-line for student success in Introduction to College Reading has been irregular but declined dramatically in 2004-05.
5. Of those students who enrolled in Introduction to College Reading as well as other college level courses, the course success rate (A, B, C) has averaged 50% or higher.
6. Student success in Math Foundations improved to over 50% the past four years after a low of 36.7% during AY 01.
7. Of those students who enrolled in Math Foundations and then enrolled in succeeding math courses, a general decline in the percentage course success (A, B, C) has been noted.
8. Of those students who enrolled in Math Foundations and were also enrolled in other courses during their tenure, improvements in course success rates were noted until 2004-05.
9. Course success for students who enrolled in Pre-Algebra Math has exceeded 50%.
10. Of those students who enrolled in Pre-Algebra Math and then enrolled in higher level math courses, course success has ranged from 47% to 63%.
11. Of those students who enrolled in Pre-Algebra Math as well as other coursework during their academic tenure, "other course" success exceeded 58%.
12. Course success for students enrolled in Introductory Algebra has continued an upward trend to 60% success in 2004-05
13. Course success in succeeding higher level math courses after enrollment in Introductory Algebra has generally averaged 50% or higher and has improved during the past two academic years of this study.

14. After a student completes a developmental math course, e.g. DEV052D, success rates in the next level courses decline as students proceed through the sequence.

Recommendations for Consideration

Many factors impact student academic success in pre-college level coursework. The following are recommendations intended for further discussion and action. If placement test scores recommend a student enroll in a DEV course:

1. Limit the number of credits to twelve or fewer during the initial term.
2. Develop a recommended list of courses that could be taken concurrently with each DEV course.
3. Advise developmental math students not to enroll in science courses that integrate algebraic formulas with theory.