

Cohort Analysis: Promoting English and Math Learning

Facilitate successful student navigation through Gateway courses.

March 2024

This research brief analyzes gateway English and math outcomes for the 903 Fall 2022 First-Time Freshmen (both full-time and part-time). The analysis includes their attempt and completion rates in English and mathematics gateway courses from Fall 2022 through Summer 2023 and consists of both aggregated and disaggregated data across the course-taking and achievement patterns in these gateway courses, with the results outlined below.¹

Goal 3, Strategy 1 of the Hostos Strategic Plan is *Facilitate successful student navigation through Gateway courses*, acknowledging the importance of gateway success in students' First Year. In addition to correlating strongly with retention, gateway completion ensures students gain competency in foundational skills applied across general education and degree-specific courses, in addition to supporting career preparedness.

The data are what OIERA is describing as “action-informing” – in addition to providing details about an important first-year milestone, analysis of gateway course enrollment and completion data can be used by SDEM and OAA to develop communication plans to students about (re-)enrollment in gateway courses, seeking academic and other resources to support their success, and ultimately to improve gateway completion rates in students' first year at Hostos.

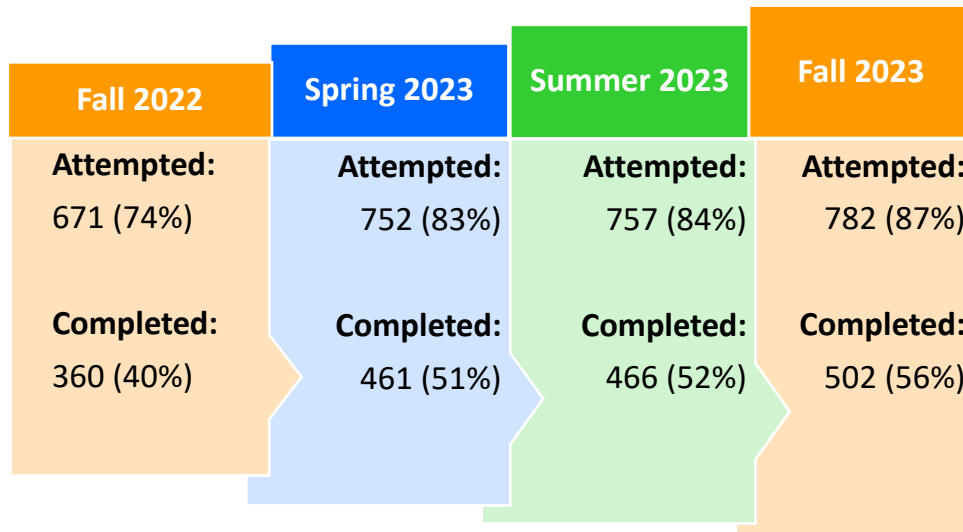
Gateway English Paths to Completion

All First-Time Freshmen Progress through ENG 110:

ENG 110 is the first course in the two-course ENG sequence required for all Hostos degrees. The following diagram aggregates the cumulative number and percent of unique students from the Fall 2022 cohort, from Fall 2022 through Fall 2023. The headings in the diagram are defined as follows:

- Those who enrolled in the first gateway English course are included in the “Attempted” count in the first semester they enroll (even if withdraw at some point).
- Those who successfully completed first English gateway course are included in the “Completed” count in the first semester in which they complete this course.
- The attempt and completion rates include both FT and PT (typically, analyses including PMP only include FT student outcomes).

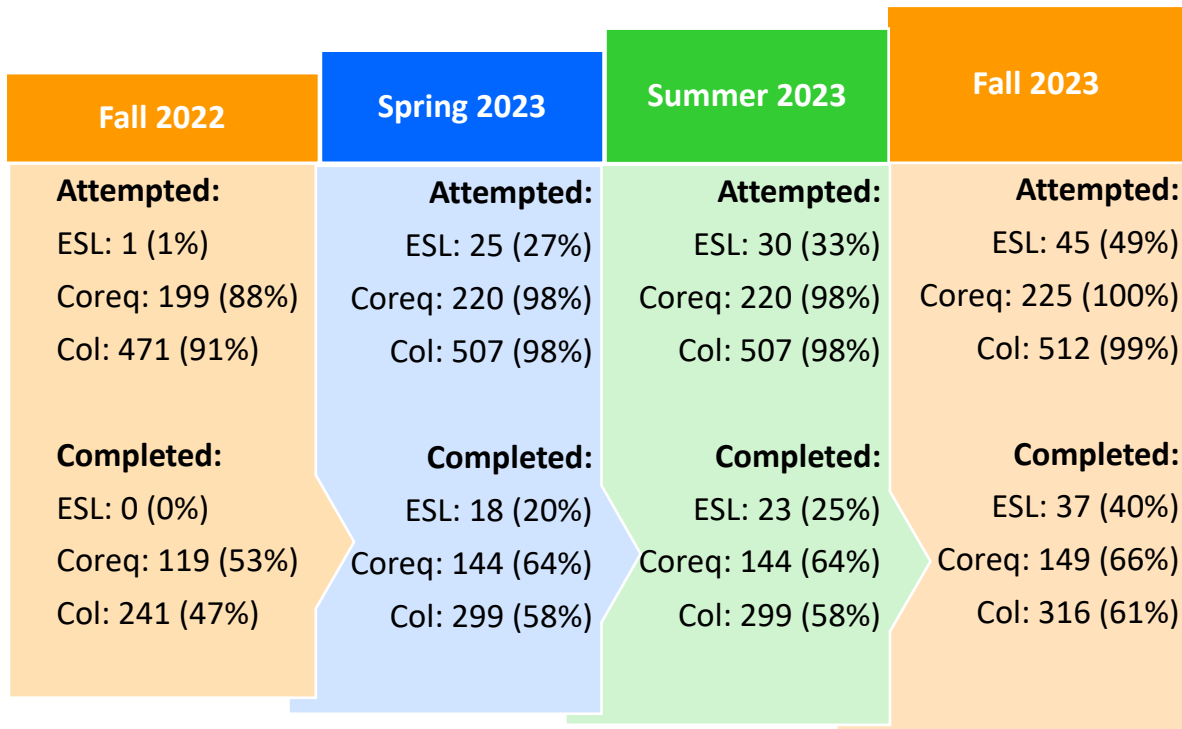
¹ Lead author is Dr. Anders Stachelek, Director of Assessment, Hostos Office of Institutional Effectiveness, Research and Assessment.



All First-Time Freshmen Progress through ENG 110 by Placement:

The following diagram aggregates the cumulative number and percent of unique students from the Fall 22 cohort across the placement levels, from Fall 2022 through Fall 2023. The headings in the diagram are defined as follows:

- Those who enrolled in the first gateway English course are included in the “Attempted” count in the first semester they enroll (even if withdraw at some point)
- Those who successfully completed first English gateway course are included in the “Completed” count in the first semester in which they complete this course
- The attempt and completion rates include both FT and PT (typically, analyses including PMP only include FT student outcomes).
- “ESL” refers to credit-bearing ESL courses only (not pre-matriculation CLIP).
- “Coreq” refers to co-requisite ENG gateway courses (100 and 110/10).
- “College” refers to ENG 110, in which the majority of Hostos FTF place.

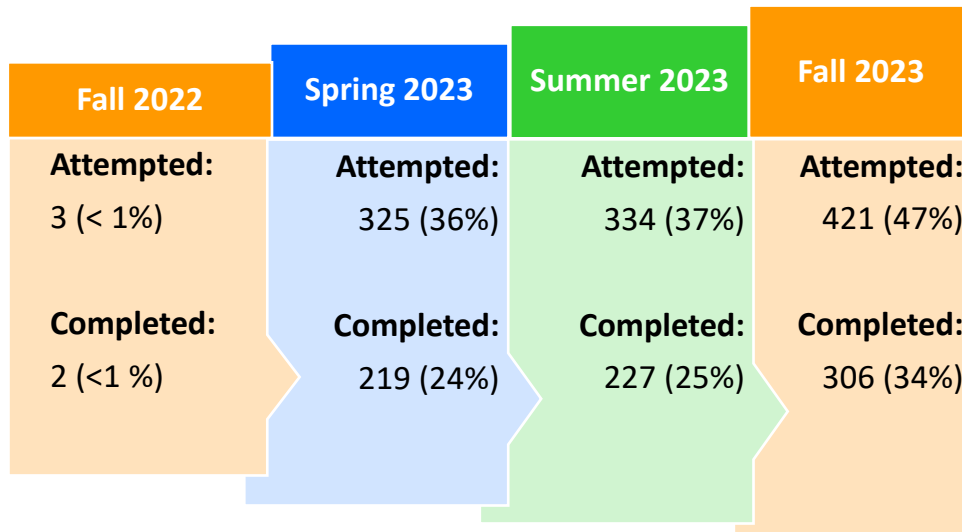


All First-Time Freshmen Progress through ENG 111:

ENG 111 is the second course in the two-course ENG sequence required for all Hostos degrees.

The following diagram aggregates the cumulative number and percent of unique students from the Fall 2022 cohort, from Fall 2022 through Fall 2023. The headings in the diagram are defined as follows:

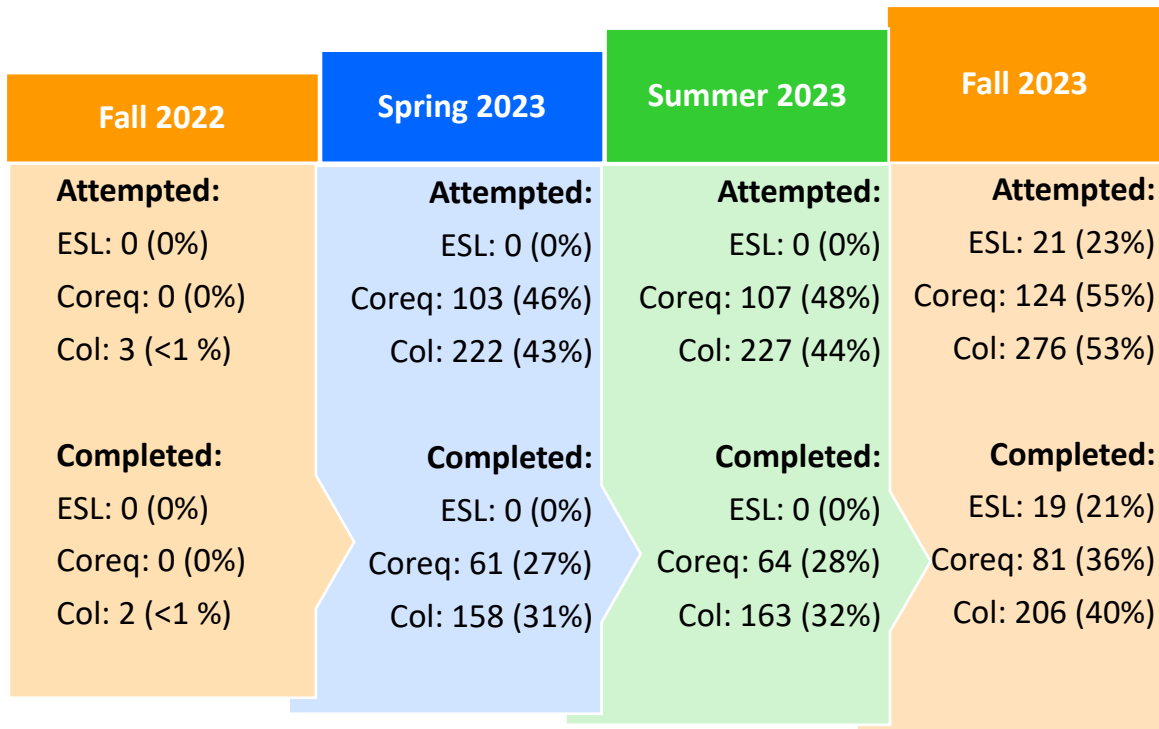
- Those who enrolled in the second gateway English course are included in the “Attempted” count in the first semester they enroll (even if withdraw at some point).
- Those who successfully completed the second English gateway course are included in the “Completed” count in the first semester in which they complete this course.
- Because ENG 111 is the second course in a two-course sequence, very few First Time Freshmen (<1%) have completed the pre-requisite ENG 110 before matriculation at Hostos.
- The data strongly suggest that students delay attempting ENG 111, even taking into account ~20% one-term and 40% one-year attrition.



All First-Time Freshmen Progress through ENG 111 by Placement:

The following diagram aggregates the cumulative number and percent of unique students from the Fall 22 cohort across the placement levels, from Fall 2022 through Fall 2023. The headings in the diagram are defined as follows:

- Those who enrolled in the second gateway English course are included in the “Attempted” count in the first semester they enroll (even if withdraw at some point).
- Those who successfully completed the second English gateway course are included in the “Completed” count in the first semester in which they complete this course.
- “ESL”, “Coreq” and “College” refer to students’ initial placement at Hostos. There is only one version of ENG 111.

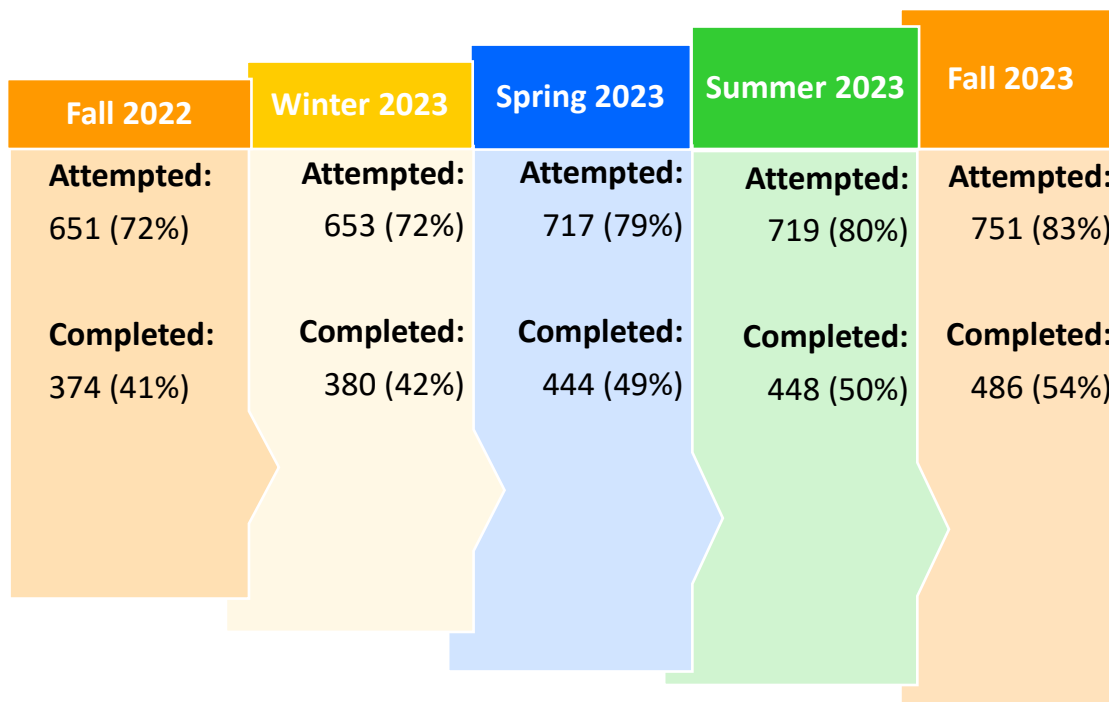


Gateway Math Enrollment and Completion:

All First-Time Freshmen:

The following diagram aggregates the cumulative number and percent of unique students from the Fall 22 cohort across one full academic year, from Fall 2022 through Summer 2023. The headings in the diagram are defined as follows:

- Those who initially enroll for a mathematics course are included in the “Attempted” count in the first semester they enroll (even if they withdraw at some point).
- Those who successfully completed at least one gateway mathematics course are included in the “Completed” count in the first semester in which they complete a course.
- Those who never enroll for a mathematics course are included in the “No attempt” count and have never registered for a mathematics course in any of the included semesters
- All Hostos degrees require gateway math except for Dental Hygiene. By removing students who enter Hostos as Dental Hygiene majors, the rate of attempt and completion is significantly higher than what is reported in the PMP and Hostos KPIs.



The following pages include additional data and analyses of the semester-by-semester progression of the Fall 22 First Time Freshmen and their attempt and completion rates of Gateway Math.

Unsurprisingly, the largest number/rate of attempts was in the first semester (Fall 22), when the Fall 22 FTF first enrolled. The gains over the next four terms (Winter 23, Spring 23, Summer 23 and Fall 23) are small. By the end of five terms (three full semesters plus Winter and Summer), 54% of Fall 22 FTF have completed math.

All Hostos degrees require Gateway Math except for Dental Hygiene, and as 46% of Fall 22 FTF are not enrolled in the Dental Hygiene program, nearly half of the Fall 22 FTF have not attempted or have not completed Gateway Math. While some students put off taking math in their first semesters because they cannot find a seat in an appropriate math class that fits their schedule or preferred modality, by their second fall, there may be more holding them back from enrolling in Gateway math.

In addition to being a component of the Common Core and a graduation requirement, Gateway Math completion continues to correlate with first term and first year retention.

The following iteration of this report will include retention data for the Fall 22 and Fall 23 FTF in relation to Gateway Math attempt and completion, as well as analysis of data that have been disaggregated by race/ethnicity, gender and age.

Among these are the below steps for which a model and implementation timeline need to be developed:

1. Fall 2022 Cohort of First Time Freshmen (Both Full and Part-time)
 - a. By degree program

Distribution of All First Time Freshmen Across Academic Degree Plans

Department	Degree Program	Number of Students
Allied Health	Dental Hygiene	80
Allied Health	Nursing	178
Allied Health	Radiologic Technology	66
Behavioral & Social Sciences	Criminal Justice	59
Behavioral & Social Sciences	Paralegal	3
Behavioral & Social Sciences	Police Science	4
Behavioral & Social Sciences	Public Policy and Administration	2
Business	Accounting AAS	4
Business	Accounting AS	18
Business	Accounting for Forensic	1
Business	Business Management	58
Business	Office Technology	6
Education	Aging and Health Studies	0
Education	Community Health	6
Education	Early Childhood	40
Humanities	Digital Design and Animation	52
Humanities	Digital Music	17

Humanities	Game Design	60
Mathematics	Computer Science	47
Mathematics	Mathematics	2
Natural Sciences	Chemical Engineering	4
Natural Sciences	Civil Engineering	8
Natural Sciences	Electrical Engineering	20
Natural Sciences	Mechanical Engineering	13
Natural Sciences	Food Studies	3
Natural Sciences	Liberal Arts AS	29
Natural Sciences	Science for Forensic	15
Office of Academic Affairs	Liberal Arts AA	99
Certificates	LPN Cert	9
Certificates	OA – Cert	0

b. MAT enrollment by degree program

All First Time Freshmen Across Mathematics Courses by Degree Program

Degree Program	MAT 100	MAT 100SI	MAT 105	MAT 120	MAT 120SI	MAT 150	MAT 150SI	MAT 160
Dental Hygiene	2	13	3	6	4	1	10	1
Nursing	2	41	3	106	25	8	19	1
Radiologic Technology	3	10	44	4	2	3	12	0
Criminal Justice	3	12	0	36	11	2	6	1
Paralegal	0	1	0	1	0	0	0	0
Police Science	0	0	0	2	0	0	3	0
Public Policy and Administration	0	1	0	0	0	0	1	0
Accounting AAS	0	2	0	1	0	4	0	2
Accounting AS	0	2	0	1	1	15	4	6
Accounting for Forensic								
Business Management	0	14	0	35	6	4	19	3
Office Technology	0	2	0	3	0	1	0	0
Aging and Health Studies								
Community Health	0	1	1	3	1	2	0	1
Early Childhood	4	19	0	10	5	0	0	0

Digital Design and Animation	28	15	1	6	7	0	2	0
Digital Music	13	2	0	3	0	0	0	0
Game Design	15	24	1	7	12	4	2	3
Computer Science	1	10	2	0	1	36	9	25
Mathematics	0	0	0	0	0	1	1	2
Chemical Engineering	0	0	0	0	0	4	0	3
Civil Engineering	0	3	0	0	0	6	1	7
Electrical Engineering	0	5	0	1	0	14	2	8
Mechanical Engineering	0	0	0	0	0	9	4	7
Food Studies	0	1	0	2	0	0	0	0
Liberal Arts AS	1	6	1	5	0	15	8	9
Science for Forensic	0	0	1	3	0	9	9	9
Liberal Arts AA	12	31	3	34	13	9	3	2
LPN Cert	0	1	0	7	2	0	2	0

Note: These courses are taken across all of the semesters reported on (Fall 2022 through Fall 2023, inclusive)

Fall 2022 Analysis of Course-Taking Patterns:

There was a total of 903 First Time Freshmen, of which 356 were placed in a corequisite course, 395 were placed in college-level course, and 152 were unknown for placement as they had not enrolled in any mathematics course from Fall 2022 through to Fall 2023, inclusive. In Fall 2022, 651 students (72%) were initially enrolled in gateway mathematics with the following results by cohort:

All First-Time Freshmen Across Mathematics Courses by Grades

Mathematics Course	Enrollment in Course	A	B	C	D	F	W
MAT 100	56	20	11	4	2	3	16
MAT 100SI	164	29	25	23	15	20	52
MAT 105	28	13	4	0	1	5	5
MAT 120	169	41	43	19	9	24	33
MAT 120SI	64	10	9	6	1	25	13
MAT 150	89	26	16	11	0	19	17
MAT 150SI	80	9	14	12	0	12	33
MAT 160	1	1	0	0	0	0	0

All First-Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)

Mathematics Course	Enrollment in Course	> C	> D	F	W
MAT 100	56	35	37	3	16
MAT 100SI	164	77	92	20	52
MAT 105	28	17	18	5	5
MAT 120	169	103	112	24	33
MAT 120SI	64	25	26	25	13
MAT 150	89	53	53	19	17
MAT 150SI	80	35	35	12	33
MAT 160	1	1	1	0	0

All First-Time Freshmen Across Mathematics Courses by Grades
(by percentage in total enrollment for course)

Mathematics Course	Enrollment in Course	A	B	C	D	F	W
MAT 100	56	36%	20%	7%	4%	5%	29%
MAT 100SI	164	18%	15%	14%	9%	12%	32%
MAT 105	28	46%	14%	0%	4%	18%	18%
MAT 120	169	24%	25%	11%	5%	14%	20%
MAT 120SI	64	16%	14%	9%	2%	39%	20%
MAT 150	89	29%	18%	12%	0%	21%	19%
MAT 150SI	80	11%	18%	15%	0%	15%	41%
MAT 160	1	100%	0%	0%	0%	0%	0%

All First-Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)
(by percentage in total enrollment in course)

Mathematics Course	Enrollment in Course	> C	> D	F	W
MAT 100	56	63%	66%	5%	29%
MAT 100SI	164	47%	56%	12%	32%
MAT 105	28	61%	64%	18%	18%
MAT 120	169	61%	66%	14%	20%
MAT 120SI	64	39%	41%	39%	20%
MAT 150	89	60%	60%	21%	19%
MAT 150SI	80	44%	44%	15%	41%
MAT 160	1	100%	100%	0%	0%

In the Fall 2022 semester itself, the overall pass rate for those who attempted gateway math was 374 out of 651 (57%). By the completion of Fall 2022, 374 (41%) of the Fall 2022 First-Time Freshmen had completed their gateway mathematics requirement. The overall success rate of passing gateway mathematics for students who have attempted a gateway course is 374 out of 651 (57%). There remain 252 (28%) of the First-Time Freshmen who have yet to attempt a gateway mathematics course and 277 (31%) who have attempted a gateway mathematics course but have been unsuccessful.

By the completion of Fall 2022:

Student Cohort	Gateway Math Attempt	Gateway Math Pass	Gateway Math Incomplete
Coreq: N = 356	308 (86.5%)	153 (43.0%)	203 (57%)
College: N = 395	343 (86.8%)	221 (55.9%)	174 (44.1%)
Unknown: N = 152*	0 (0%)	0 (0%)	152 (100%)
Total: N = 903	651 (72.1%)	374 (41.4%)	529 (58.6%)

* Note: 47 of the 152 unknown placement students are Dental Hygiene and do not require a mathematics course

Winter 2023 Analysis of Course-Taking Patterns:

There were 20 (2%) First-Time Freshmen who enrolled in Winter 2023. For the semester, the following grade distribution existed across the gateway mathematics courses:

All First Time Freshmen Across Mathematics Courses by Grades

Mathematics Course	Enrollment in Course	A	B	C	D	F	W
MAT 120	8	5	0	2	0	0	1
MAT 150	5	3	1	0	1	0	0
MAT 160	7	2	2	0	0	1	2

All First Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)

Mathematics Course	Enrollment in Course	> C	> D	F	W
MAT 120	8	7	7	0	1
MAT 150	5	4	5	0	0
MAT 160	7	4	4	1	2

All First Time Freshmen Across Mathematics Courses by Grades (by percentage in total enrollment for course)

Mathematics Course	Enrollment in Course	A	B	C	D	F	W
MAT 120	8	63%	0%	25%	0%	0%	13%
MAT 150	5	60%	20%	0%	20%	0%	0%
MAT 160	7	29%	29%	0%	0%	14%	29%

All First Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)
(by percentage in total enrollment in course)

Mathematics Course	Enrollment in Course	> C	> D	F	W
MAT 120	8	88%	88%	0%	13%
MAT 150	5	80%	100%	0%	0%
MAT 160	7	57%	57%	14%	29%

In Winter 2023 itself, the overall pass rate of those who attempted was 16 out of 20 (80%). By the completion of Fall 2022 and Winter 2023, 380 (42%) of the Fall 2022 First-Time Freshmen had completed their gateway mathematics requirement. The overall success rate of passing gateway mathematics for students who have attempted a gateway course is 380 out of 653 (58%). There remain 250 (28%) First-Time Freshmen who have not attempted a mathematics course and 273 (30%) who have attempted at least once but have been unsuccessful.

By the completion of Winter 2023:

Student Cohort	Gateway Math Attempt	Gateway Math Pass	Gateway Math Incomplete
Coreq: N = 356	308 (86.5%)	153 (43.0%)	203 (57%)

College: N = 395	345 (87.3%)	227 (57.5%)	168 (42.5%)
Unknown: N = 152	0 (0%)	0 (0%)	152 (100%)
Total: N = 903	653 (72.3%)	380 (42.1%)	523 (57.9%)

Spring 2023 Analysis of Course-Taking Patterns:

A total of 264 (29%) Fa22 First-Time Freshmen enrolled in Gateway Math in Spring 2023. For the semester, the following grade distribution existed across the gateway mathematics courses:

All First-Time Freshmen Across Mathematics Courses by Grades

Mathematics Course	Enrollment in Course	A	B	C	D	F	W / INC
MAT 100	17	5	3	1	0	2	6
MAT 100SI	43	2	6	5	2	0	28
MAT 105	21	5	3	3	0	2	8
MAT 120	53	12	8	7	1	8	17
MAT 120SI	19	2	3	2	2	2	8
MAT 150	31	5	2	5	0	9	10
MAT 150SI	29	3	4	1	1	1	19
MAT 160	48	16	8	3	3	4	14
MAT 210	3	1	0	0	0	1	1

All First-Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)

Mathematics Course	Enrollment in Course	> C	> D	F	W / INC
MAT 100	17	9	9	2	6
MAT 100SI	43	13	15	0	28
MAT 105	21	11	11	2	8
MAT 120	53	27	28	8	17
MAT 120SI	19	7	9	2	8
MAT 150	31	12	12	9	10
MAT 150SI	29	8	9	1	19
MAT 160	48	27	30	4	14
MAT 210	3	1	1	1	1

All First-Time Freshmen Across Mathematics Courses by Grades (by percentage in total enrollment for course)

Mathematics Course	Enrollment in Course	A	B	C	D	F	W / INC
MAT 100	17	29%	18%	6%	0%	12%	35%
MAT 100SI	43	5%	14%	12%	5%	0%	65%
MAT 105	21	24%	14%	14%	0%	10%	38%
MAT 120	53	23%	15%	13%	2%	15%	32%

MAT 120SI	19	11%	16%	11%	11%	11%	42%
MAT 150	31	16%	6%	16%	0%	29%	32%
MAT 150SI	29	10%	14%	3%	3%	3%	66%
MAT 160	48	33%	17%	6%	6%	8%	29%
MAT 210	3	33%	0%	0%	0%	33%	33%

All First-Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing) (by percentage in total enrollment in course)

Mathematics Course	Enrollment in Course	> C	> D	F	W / INC
MAT 100	17	53%	53%	12%	35%
MAT 100SI	43	30%	35%	0%	65%
MAT 105	21	52%	52%	10%	38%
MAT 120	53	51%	53%	15%	32%
MAT 120SI	19	37%	47%	11%	42%
MAT 150	31	39%	39%	29%	32%
MAT 150SI	29	28%	31%	3%	66%
MAT 160	48	56%	63%	8%	29%
MAT 210	3	33%	33%	33%	33%

In Spring 2023, the overall pass rate of those who attempted Gateway Math was 124 out of 264 (47%). By the completion of the Fall 2022, Winter 2023, and Spring 2023 semesters, a total of 444 (49%) of the Fall 2022 First-Time Freshmen had completed their gateway mathematics requirement. The overall success rate of passing gateway mathematics for students who have attempted a gateway course is 444 out of 717 (62%). There are still 186 (21%) First-Time Freshmen who have not attempted a mathematics course and 273 (30%) who have attempted at least once but have been unsuccessful.

By the completion of Spring 2023:

Student Cohort	Gateway Math Attempt	Gateway Math Pass	Gateway Math Incomplete
Coreq: N = 356	345 (96.9%)	186 (52.2%)	170 (47.7%)
College: N = 395	372 (94.1%)	258 (65.3%)	137 (34.7%)
Unknown: N = 152	0 (0%)	0 (0%)	152 (100%)
Total: N = 903	717 (79.4%)	444 (49.2%)	459 (50.8%)

Summer 2023 Analysis of Course-Taking Patterns:

A total of 33 (4%) First-Time Freshmen enrolled in Summer 2023. For the semester, the following grade distribution existed across the gateway mathematics courses:

All First Time Freshmen Across Mathematics Courses by Grades

Mathematics Course	Enrollment in Course	A	B	C	D	F	W / INC
MAT 100	2	0	1	0	0	0	1
MAT 120	5	2	1	2	0	0	0
MAT 150	6	1	1	1	0	0	3
MAT 160	10	1	2	2	0	4	1
MAT 210	10	8	1	0	0	0	1

All First Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)

Mathematics Course	Enrollment in Course	> C	> D	F	W
MAT 100	2	1	1	0	1
MAT 120	5	5	5	0	0
MAT 150	6	3	3	0	3
MAT 160	10	5	5	4	1
MAT 210	10	9	9	0	1

**All First Time Freshmen Across Mathematics Courses by Grades
(by percentage in total enrollment for course)**

Mathematics Course	Enrollment in Course	A	B	C	D	F	W / INC
MAT 100	2	0%	50%	0%	0%	0%	50%
MAT 120	5	40%	20%	40%	0%	0%	0%
MAT 150	6	17%	17%	17%	0	0	50%
MAT 160	10	10%	20%	20%	0	40%	10%
MAT 210	10	80%	10%	0%	0%	0%	10%

All First Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)
(by percentage in total enrollment in course)

Mathematics Course	Enrollment in Course	> C	> D	F	W
MAT 100	2	50%	50%	0%	50%
MAT 120	5	100%	100%	0%	0%
MAT 150	6	50%	50%	0%	50%
MAT 160	10	50%	50%	40%	10%
MAT 210	10	90%	90%	0%	10%

In Summer 2023, the overall pass rate of those who attempted was 23 out of 33 (70%). By the completion of Fall2022, Winter 2023, Spring 2023, and Summer 2023, 448 (50%) of the Fall 2022 First-Time Freshmen had completed their gateway mathematics requirement. The overall success rate of passing gateway mathematics for students who have attempted a gateway course is 448 out of 719 (62%). By the start of Fall 2023, 184 (20%) of the Fa22 First-Time Freshmen have yet to attempt a mathematics course and 271 (30%) have attempted at least once but have been unsuccessful.

By the completion of Summer 2023:

Student Cohort	Gateway Math Attempt	Gateway Math Pass	Gateway Math Incomplete
Coreq: N = 356	345 (96.9%)	186 (52.2%)	170 (47.7%)
College: N = 395	374 (94.7%)	262 (66.3%)	133 (33.7%)
Unknown: N = 152	0 (0%)	0 (0%)	152 (100%)
Total: N = 903	719 (79.6%)	448 (49.6%)	455 (50.4%)

Fall 2023 Analysis of Course-Taking Patterns:

A total of 153 (17%) Fa22 First-Time Freshmen enrolled in Gateway Math in Fall 2023. For the semester, the following grade distribution existed across the gateway mathematics courses:

All First Time Freshmen Across Mathematics Courses by Grades

Mathematics Course	Enrollment in Course	A	B	C	D	F	W / INC
MAT 100	9	2	1	1	1	0	4
MAT 100SI	9	1	0	2	0	1	5
MAT 105	11	4	3	1	0	0	3
MAT 120	41	16	6	5	4	3	7
MAT 120SI	7	1	0	0	0	1	5
MAT 150	16	3	5	1	0	0	7
MAT 150SI	8	4	0	1	0	2	1
MAT 160	24	6	5	2	1	5	5
MAT 210	20	5	9	2	0	1	3
MAT 220	8	2	2	0	0	2	2

All First Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)

Mathematics Course	Enrollment in Course	> C	> D	F	W
MAT 100	9	4	5	0	4
MAT 100SI	9	3	3	1	5
MAT 105	11	8	8	0	3
MAT 120	41	27	31	3	7
MAT 120SI	7	1	1	1	5
MAT 150	16	9	9	0	7
MAT 150SI	8	5	5	2	1
MAT 160	24	13	14	5	5
MAT 210	20	12	13	5	5
MAT 220	8	4	4	2	2

All First Time Freshmen Across Mathematics Courses by Grades
(by percentage in total enrollment for course)

Mathematics Course	Enrollment in Course	A	B	C	D	F	W / INC
MAT 100	9	22%	11%	11%	11%	0	44%
MAT 100SI	9	11%	0%	22%	0%	11%	56%
MAT 105	11	36%	27%	9%	0%	0%	27%
MAT 120	41	39%	15%	12%	10%	7%	17%
MAT 120SI	7	14%	0%	0%	0%	14%	71%
MAT 150	16	19%	31%	6%	0%	0%	44%
MAT 150SI	8	50%	0%	13%	0%	25%	13%
MAT 160	24	25%	21%	8%	4%	21%	21%
MAT 210	20	25%	45%	10%	0%	5%	15%
MAT 220	8	25%	25%	0%	0%	25%	25%

All First Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)
(by percentage in total enrollment in course)

Mathematics Course	Enrollment in Course	> C	> D	F	W
MAT 100	9	44%	56%	0%	44%
MAT 100SI	9	33%	33%	11%	56%
MAT 105	11	73%	73%	0%	27%
MAT 120	41	66%	76%	7%	17%
MAT 120SI	7	14%	14%	14%	71%
MAT 150	16	56%	56%	0%	44%
MAT 150SI	8	63%	63%	25%	13%
MAT 160	24	54%	58%	21%	21%
MAT 210	20	60%	65%	25%	25%
MAT 220	8	50%	50%	25%	25%

In Fall 2023, the overall pass rate of Fa22 FTF who attempted Gateway Math was 93 out of 153 (61%). By the completion of Fall2022, Winter 2023, Spring 2023, Summer 2023, and Fall 2023, 486 (54%) of all the Fall 2022 First-Time Freshmen had completed their gateway mathematics requirement. The overall success rate of passing gateway mathematics for students who have attempted a gateway course is 486 out of 751 (65%). There are still 152 (17%) of the Fa22 First-Time Freshmen who have yet to attempt a mathematics course and 265 (29%) who have attempted at least once but have been unsuccessful (46% of Fa22 FTF have not completed Gateway Math by the end of Fall 2023).

By the completion of Fall 2023:

Student Cohort	Gateway Math Attempt	Gateway Math Pass	Gateway Math Incomplete
Coreq: N = 356	356 (100%)	197 (55.3%)	159 (44.7%)
College: N = 395	395 (100%)	289 (73.2%)	106 (26.8%)
Unknown: N = 152	0 (0%)	0 (0%)	152 (100%)
Total: N = 903	751 (83.2%)	486 (53.8%)	417 (46.2%)

Winter 2024 Analysis of Course-Taking Patterns:

There were ## (##%) First-Time Freshmen who enrolled in Winter 2024. For the semester, the following grade distribution existed across the gateway mathematics courses:

All First Time Freshmen Across Mathematics Courses by Grades

Mathematics Course	Enrollment in Course	A	B	C	D	F	W

All First Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)

Mathematics Course	Enrollment in Course	> C	> D	F	W

All First Time Freshmen Across Mathematics Courses by Grades

(by percentage in total enrollment for course)

Mathematics Course	Enrollment in Course	A	B	C	D	F	W

All First Time Freshmen Across Mathematics Courses by Status

Note: > C indicates a grade of C or higher and > D indicates a grade of D or higher (passing)

(by percentage in total enrollment in course)

Mathematics Course	Enrollment in Course	> C	> D	F	W

In Winter 2024 itself, the overall pass rate of those who attempted was ## out of ## (##%). By the completion of Fall 2022 to Winter 2024, ### (##%) of the Fall 2022 First-Time Freshmen

had completed their gateway mathematics requirement. The overall success rate of passing gateway mathematics for students who have attempted a gateway course is ### out of ### (##%). There remain ### (##%) First-Time Freshmen who have not attempted a mathematics course and ### (##%) who have attempted at least once but have been unsuccessful.