

Several Summer Bridge programs provide entering freshmen with the opportunity to advance their math placement. The Academic Resources Center (ARC) program reported that in summer 2018, 97% of students participating in the program advanced to a higher level of the MTH course. The COE and the ARC launched an online Engineering Summer Bridge Program (ESBP) in summer 2017; they reported that 57% of precalculus students who participated in summer 2018 advanced to calculus in Fall 2018. Similarly, in response to high F/W rates in chemistry, the department instituted administration of the Toledo Chemistry Placement Exam for the first time during 2018 Freshman Orientation in the summer of 2018 for students whose major requires chemistry. Assessment data will consist of the students' achievement in CHM 151 and CHM 153 based on Toledo's student readiness predictability and will be determined at the end of the fall semester. Similarly, the CON in collaboration with the Academic Resource Center provided an online summer bridge program for a math course to prepare students for the requirements of the nursing program. Students are identified based on SAT or placement test scores.

In an effort to reduce the number of students required to take MTH 100, which bears no degree credit, the MTH department developed the concept of enhanced sections of gateway math courses that provide students with an additional instructional hour to increase their likelihood of success. Enhanced sections of MTH 140, 146, 147, 148 and 150 for students whose Accuplacer scores fall within a specified range. To date, the department reports that the program is considered a success, in that the students enrolled in the enhanced sections are nearing the same level of competency as students enrolled in regular classes, as evidenced by exam and final course grades.

Out of the students that participated in the Summer Bridge Program, 52 registered for a Math course in Fall 2018.

The following table represents the course, how many registered, how many passed and the percent of success. Red ones represent the grades of the students that did not participate in the SBP.

MTH Course	Registered	Pass	Percent	Notes
MTH 140 SBP	1	1	100%	
MTH 147 SBP	5	5	100%	2 Ds
MTH 148 SBP	17	17	100%	1 D
MTH 148 (Regular)	240	222	92.5%	
MTH 150 SBP	3	2	66.7%	1 F
MTH 151/153 SBP	26	20	77%	3 Ws & 3 Fs
MTH 151 / 153 (Regular)	297	219	73.7%	

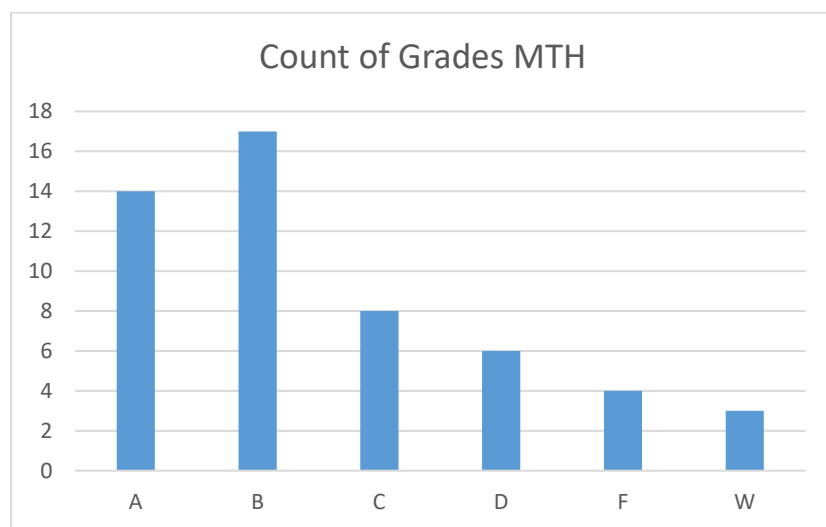
Out of 43 students that participated in the Summer Bridge Program and took a Math course (MTH 148, MTH 151 & MTH 153) in Fall 2018, 37 of them passed the course (86.0%).

Out of 537 students that did not participate in the Summer Bridge Program and took a Math course (MTH 148, MTH 151 & MTH 153) in Fall 2018, 441 passed the course (82.1%).

Note

We did not compare students that took MTH 140, MTH 147 and MTH 150 and participate in the SBP with those that took the same courses and did not participate in the SBP (small samples → n = 1 for MTH 140, n = 5 for MTH 147, n = 3 for MTH 150)

The following chart shows the distribution of the grades for Math for the students that participated in the Summer Bridge Program:



Out of the students that participated in the Summer Bridge Program, 32 registered for a Chemistry course in Fall 2018.

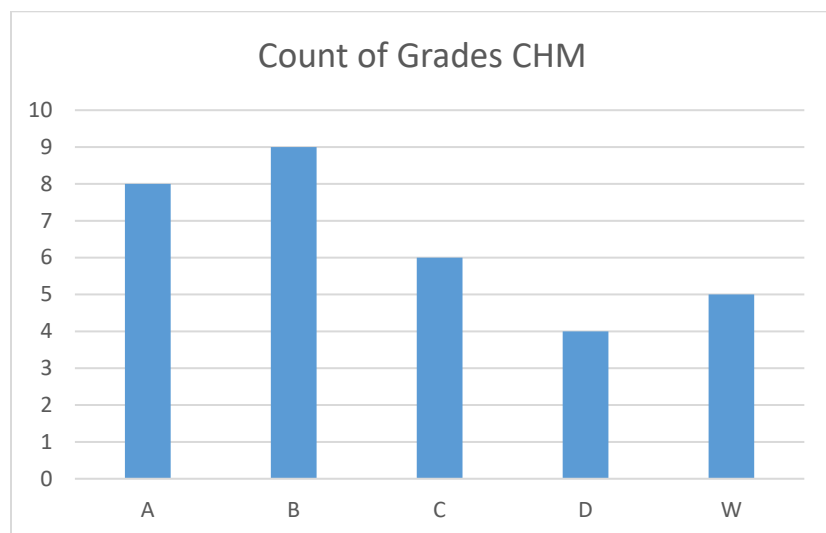
The following table represents the course, how many registered, how many passed and the percent of success. Red ones represent the grades of the students that did not participate in the SBP.

CHM Course	Registered	Pass	Percent	Notes
CHM 101 SBP	8	8	100%	
CHM 101 (Regular)	98	92	94%	
CHM 151 SBP	9	5	55.6%	4 Ws
CHM 151 (Regular)	191	109	57%	
CHM 153 SBP	15	14	93.3%	1 W
CHM 153 (Regular)	112	89	79.5%	

Out of 32 students that participated in the Summer Bridge Program and took a Chemistry course (CHM 101, CHM 151 & CHM 153) in Fall 2018, 27 passed the course (84.4%).

Out of 401 students that did not participated in the Summer Bridge Program and took a Chemistry course (CHM 101, CHM 151 & CHM 153) in Fall 2018, 290 passed the course (72.3%).

The following chart shows the distribution of the grades for Chemistry for the students that participated in the Summer Bridge Program:

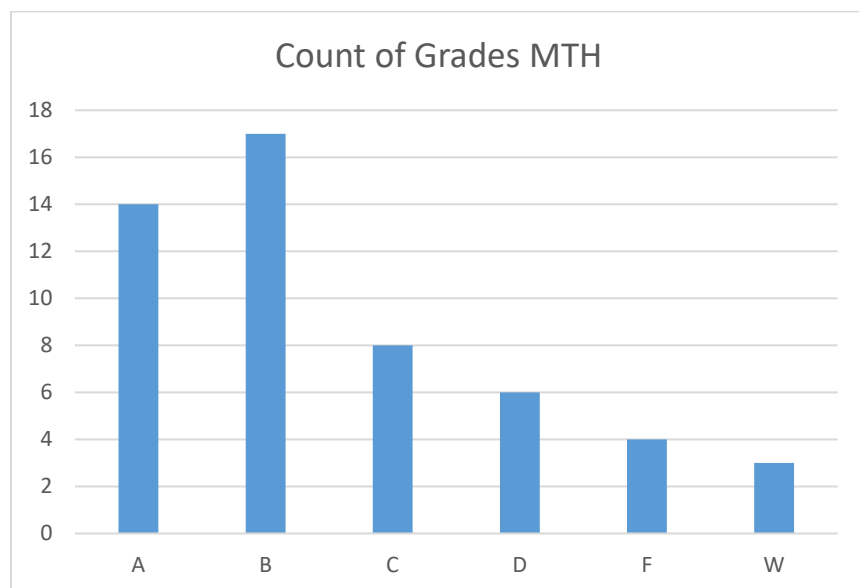


Out of the students that participated in the Summer Bridge Program, 52 registered for a Math course in Fall 2018.

The following table represents the course, how many registered, how many passed and the percent of success along with some notes

MTH Course	Registered	Pass	Percent	Notes
MTH 140	1	1	100%	
MTH 147	5	5	100%	2 Ds
MTH 148	17	17	100%	1 D
MTH 150	3	2	66.7%	1 F
MTH 151/153	26	20	77%	3 Ws & 3 Fs
Total	52	45	86.5%	

The following chart shows the distribution of the grades:



Out of the students that participated in the Summer Bridge Program, 32 registered for a Chemistry course in Fall 2018.

CHM Course	Registered	Pass	Percent	Notes
CHM 101	8	8	100%	
CHM 151	9	5	55.5%	4 Ws
CHM 153	15	14	93.3%	1 W
Total	32	27	84.4%	

The following chart shows the distribution of the grades:

