

Pre-Calculus with Corequisite Support Survey Results Fall 2019 and Spring 2020

Under the implementation of AB705, Citrus College made changes to transfer-level math courses with the purpose of increasing completion of transfer-level math within a one-year timeframe. These changes included students' placement in the math course sequence, classroom redesign, and pedagogy. To better understand the student experience as a result of these modifications, students were surveyed about their experience in the newly redesigned Pre-Calculus with Corequisite support (MATH175 + 075) during the fall 2019 and spring 2020 semesters. The following is a summary of the survey results.

Comparing MATH075/175 Survey Results	Fall 2019 Total N=94	Spring 2020 Total N=87
2. How would you rate the helpfulness of each of the following teaching methods and materials used in this course before the campus closed?	% that rated it moderately or very helpful	
2a. Instructor's lectures	92.6%	95.4%
2b. Working in groups	93.6%	88.5%
2c. Quality of materials provided (e.g. worksheets, PowerPoint presentations, etc.)	92.5%	94.3%
2d. Diversity of format for the content delivered (e.g. video, audio, online, etc.)	80.8%	88.5%
2e. Workbook	42.6%	57.5%
2f. Textbook	40.4%	73.6%
2g. Calculator	95.8%	95.4%
2h. Manipulatives (e.g. dice, coins, cards, etc.)	45.7%	48.3%
2i. Whiteboard	97.9%	90.8%
2j. Movable furniture	85.1%	71.3%
2k. Counselor Visit	58.5%	48.3%
2l. STEM Center Visit (in class)	-	57.5%

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3. How would you rate the helpfulness of each of the following teaching methods and materials used in this course after the campus closed?	% that rated it moderately or very helpful	
3a. Working in groups (Zoom breakout rooms)	-	43.7%
3b. Diversity of format for the content delivered in Zoom (e.g. class activity, project, video, audio, online, etc.)	-	64.4%
4. During this semester, how often did you use:	% that used it at least once	
4a. Virtual Instructor Office Hours (including via email, WebAssign, Connect, MyOpenMath, MyMathLab)	44.7%	54.0%
4b. Virtual STEM Center tutor (one-on-one)	47.9%	23.0%
4c. Virtual STEM Center tutor (study group)	45.8%	11.5%
5. How would you rate the helpfulness of:	% that rated it moderately or very helpful	
5a. In-class tutor (before the campus closed)	84.0%	71.3%
5b. Virtual STEM Center tutor (one-on-one)	47.8%	25.3%
5c. Virtual STEM Center tutor (study group)	44.7%	20.7%
6. How much do you agree or disagree with the following statements (in the online environment)?	% that rated agree or strongly agree	
6a. The instructor's lectures were effective in helping me learn in the online environment.	95.7%	73.6%
6b. Diversity of content (e.g. class activity, project, video, audio, etc.) were effective in helping me learn in the online environment.	-	74.7%
6c. My instructor helped me succeed in the online environment by reviewing foundations skills right before we tackled more complex problems.	91.5%	77.0%
6d. Group work (i.e. working with peers in Zoom breakout rooms) was effective in helping me learn in the online environment.	95.8%	43.7%
6e. Working in the Canvas Discussion Boards with my peers was effective in helping me learn in the online environment.	-	44.8%
6f. Working with the Zoom share screen and Zoom whiteboard with my peers was effective in helping me learn in the online environment.	95.8%	47.1%

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6g. The collaborative learning environment is one reason I participated in Zoom sessions and breakout rooms.	88.3%	40.2%
6h. Having tables arranged in groups was effective in helping me learn (before the campus closed).	90.4%	77.0%
6i. I gained a sense of community by being in the online environment.	90.4%	52.9%
6j. I gained a sense of responsibility by being in the online environment.	87.2%	67.8%
6k. I gained a sense of belonging to my class as a learning community in the online environment.	87.2%	54.0%
7. Which of the following best captures your feeling about this course?	% that chose each answer (% that were successful in the course)	
7a. This course is too easy for me.	3.2% (100%)	2.3% (100%)
7b. This course is the right level for me.	76.6% (87%)	73.6% (100%)
7c. This course is too difficult for me.	20.2% (44%)	14.9% (100%)
8. When offered, how often did you participate in the Zoom meetings?	% that chose each answer	
8a. Always	-	34.5%
8b. Sometimes	-	14.9%
8c. Never	-	14.9%
8d. Not offered in these courses	-	26.4%
9. Which type of remote learning environment do you prefer?	% that chose each answer	
9a. Asynchronous instruction	-	20.7%
9b. Synchronous instruction	-	14.9%
9c. Combination instruction	-	49.4%