

Survey Results for Mathematics Corequisite Support Courses Fall 2020

Under the implementation of AB705, Citrus College made changes to the following transfer-level math courses: Calculus for Business and Social Sciences (MATH162 + 062), Introductory Statistics (MATH165 + 065), and Pre-Calculus (MATH175 + 075). These changes included students' placement in the math course sequence, classroom redesign, and pedagogy. The purpose of these changes was to increase completion of transfer-level math within a one-year timeframe. To better understand the student experience as a result of these modifications, students were surveyed about their experience in the redesigned corequisite support math courses during the fall 2020 semester. Additionally, due to the COVID-19 pandemic and the transition to remote learning we were interested in understanding students' experience in the remote learning environment. The following is a summary of the survey results.

Survey results for fall 2020 corequisite math classes	MATH062 Total N=75	MATH065 Total N=342	MATH075 Total N=95
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	93.3%	94.4%	83.2%
2b. Working in groups	46.7%	67.5%	58.9%
2c. Quality of materials provided (e.g. worksheets, PowerPoint presentations, etc.)	92.0%	92.7%	86.3%
2d. Diversity of format for the content delivered (e.g. video, audio, online, etc.)	-	-	-
2e. Workbook	-	-	-
2f. Textbook	-	-	-
2g. Calculator	-	-	-
2h. Manipulatives (e.g. dice, coins, cards, etc.)	-	-	-
2i. Whiteboard	-	-	-
2j. Movable furniture	-	-	-
2k. Counselor Visit	-	-	-

2l. STEM Center Visit (in class)	-	-	-
2m. Zoom share screen and Zoom whiteboard	86.7%	92.4%	84.2%
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)	-		-

Survey results for fall 2020 corequisite math classes	MATH062 Total N=75	MATH065 Total N=342	MATH075 Total N=95
3b. Diversity of format for the content delivered in Zoom (e.g. class activity, project, video, audio, online, etc.)	88.0%	91.5%	85.3%
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)	52.0%	62.6%	56.8%
4b. Virtual STEM Center tutor (one-on-one)	5.3%	18.7%	13.7%
4c. Virtual STEM Center tutor (study group)	6.7%	15.8%	13.7%
5. How would you rate the helpfulness of:	% that rated it moderately or very helpful		
5a. In-class tutor (before the campus closed)	-	-	-
5b. Virtual STEM Center tutor (one-on-one)	18.7%	28.1%	26.3%
5c. Virtual STEM Center tutor (study group)	18.7%	26.3%	28.4%
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.	93.3%	92.4%	81.1%
6b. Diversity of content (e.g. class activity, project, video, audio, etc.) were effective in helping me learn in the online environment.	85.3%	92.7%	81.1%
6c. My instructor helped me succeed in the online environment by reviewing foundations skills right before we tackled more complex problems.	90.7%	92.4%	83.2%
6d. Group work (i.e. working with peers in Zoom breakout rooms) was effective in helping me learn in the online environment.	50.7%	69.6%	57.9%
6e. Working in the Canvas Discussion Boards with my peers was effective in helping me learn in the online environment.	53.3%	61.4%	56.8%
6f. Working with the Zoom share screen and Zoom whiteboard with my peers was effective in helping me learn in the online environment.	72.0%	84.8%	72.6%
6g. The collaborative learning environment is one reason I participated in Zoom sessions and breakout rooms.	58.7%	77.5%	60.0%

Survey results for fall 2020 corequisite math classes	MATH062 Total N=75	MATH065 Total N=342	MATH075 Total N=95
6h. Having tables arranged in groups was effective in helping me learn (before the campus closed).	-	-	-
6i. I gained a sense of community by being in the online environment.	53.3%	72.2%	67.4%
6j. I gained a sense of responsibility by being in the online environment.	73.3%	81.0%	72.6%
6k. I gained a sense of belonging to my class as a learning community in the online environment.	57.3%	77.2%	65.3%
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.	2.7% (100%)	2.9% (100%)	2.1% (100%)
7b. This course is the right level for me.	76.0% (100%)	82.5% (92%)	81.1% (90%)
7c. This course is too difficult for me.	18.7% (67%)	11.1% (52%)	12.6% (83%)
8. When offered, how often did you participate in the Zoom meetings?	% that chose each answer		
8a. Always	34.7%	44.4%	48.4%
8b. Sometimes	46.7%	42.7%	28.4%
8c. Never	8.0%	7.3%	15.8%
8d. Not offered in these courses	8.0%	2.0%	3.2%
9. Which type of remote learning environment do you prefer?	% that chose each answer		
9a. Asynchronous instruction	26.7%	14.9%	20.0%
9b. Synchronous instruction	22.7%	28.7%	17.9%

Survey results for fall 2020 corequisite math classes	MATH062 Total N=75	MATH065 Total N=342	MATH075 Total N=95
9c. Combination instruction	45.3%	52.0%	55.8%

Results of STEM Center Usage and Helpfulness by students who used the STEM Center	MATH062 Total N=75	MATH065 Total N=342	MATH075 Total N=95
4. During this semester, how often did you use:	% that used it at least once		
4b. Virtual STEM Center tutor (one-on-one)	5.3%	18.7%	13.7%
4c. Virtual STEM Center tutor (study group)	6.7%	15.8%	13.7%
5. How would you rate the helpfulness of: filtered by students who used the STEM Center	% that rated it moderately or very helpful		
5b. Virtual STEM Center tutor (one-on-one)	25.0%	78.1%	84.6%
5c. Virtual STEM Center tutor (study group)	60.0%	64.8%	69.3%