

Academic Program Review Committee

Program: Mathematics – CM2

Date Reviewed: November 21, 2019

Re-submission Due Date: By end of Fall 2019

1. Overview of the Program	Comments
a) Provide a brief narrative description of the current program, including the program's mission statement and the students it serves.	<ul style="list-style-type: none"> • Add brief introductory narrative regarding AB 705 for context • Include number of transfer classes in 2nd paragraph
b) Describe the degrees and/or certificates offered by the program.	<ul style="list-style-type: none"> •
c) Explain how the program fulfills the college's mission and aligns with the strategic initiatives. (see Appendix A)	<ul style="list-style-type: none"> • SI #1 – add examples of teaching methodologies (e.g., “just in time” teaching); perhaps concrete evidence regarding math thinking and skills on jobs • SI #2 – “... <i>students who may have deficiencies in the development of math skills needed</i> ...” • SI #3 – expand on collaborations (e.g., across campus; with English regarding AB 705) • SI #4 – emphasize that in line with best practices in higher education regarding AB 705
d) Discuss the status of recommendations from your previous program review.	<ul style="list-style-type: none"> • For any recommendations that will be carried over, discuss in the Notes/Comments how the need ties in to student survey results and student learning outcomes assessment results, as applicable
2. Analysis of Research Data (include data provided by Institutional Research & Planning)	
Provide and <u>analyze</u> the following statistics/data	Comments
a) Head count of students in the program	
b) Course grade distribution	

c) Success rates (Discuss your program's rates in light of the college's success rate standard. Set a standard for your program.)	<ul style="list-style-type: none"> • Provide context for rates (e.g., 60% success rate) by comparing to college baseline and other community colleges • Elaborate how the program plans to address the performance gaps
d) Retention rates	
e) A comparison of success and retention rates in face-to-face classes with distance education classes	
f) Enrollment statistics with section and seat counts and fill rates	<ul style="list-style-type: none"> • P. 29 – Perhaps re-phrase the 1st sentence of the paragraph below Figure 38 so that it doesn't read as though the decrease in enrollment was intentional (e.g., <i>"Enrollment in Math 140 continues to decline because CSULB no longer ..."</i>) • Carolyn P. clarified that Figure 39 represents unduplicated count. Perhaps eliminate the last sentence on p. 30 and explain that the figure represents an unduplicated count.
g) Scheduling of courses (day vs. night, days offered, and sequence)	<ul style="list-style-type: none"> • Add brief statement about how the MATH 150 distance education offerings worked
h) Improvement rates (if applicable)	
i) Additional data compiled by faculty	
j) List any related recommendations.	
3. Curriculum Review	Comments
a) Provide the curriculum course review timeline to ensure all courses are reviewed at least once every 6 years.	
b) Explain any course additions to current course offerings.	
c) Explain any course deletions and inactivations from current course offerings.	
d) Describe the courses and number of sections offered in distance education. (Distance	

education includes hybrid courses.)	
e) Discuss how well the courses, degrees, or certificates are meeting students' transfer or career training needs:	
1. Have all courses that are required for your program's degrees and certificates been offered during the last two years? If not, has the program established a course offering cycle?	
2. Are there any concerns regarding program courses and their articulation?	
3. How many students earn degrees and/or certificates in your program? Do students take licensure exams? If so, what is the pass rate? If few students receive degrees or certificates or if few students pass the licensure exam, should the program's criteria or courses be re-examined? Set an attainable, measurable goal.	
f) List any related recommendations.	<ul style="list-style-type: none"> • P. 39 (#1) - Include any data to support the need regarding MATH 120 • P. 39 (#1) – Consider re-phrasing sentence <i>“It is important that we create a Math 120-S to help students who demonstrate skill deficiencies so that they have a better chance to pass the course.”</i>
4. Assessment and Student and Program Learning Outcomes (SLOs & PLOs)	Comments
a) Provide a copy of your alignment grid, which shows how course, program, and institutional learning outcomes are aligned.	
b) Provide a timeline for course and program level SLO assessments.	
c) State the percent of course and program SLO statements that have been assessed.	
d) Summarize SLO and PLO assessment results over the past four years and describe how results led to improved student learning. Analyze and describe changes. Provide specific examples.	<ul style="list-style-type: none"> • Add introductory paragraph (e.g., summary with highlights) • [It was noted during the review session that sample sizes are small in some cases – perhaps note that in

	<p>this section]</p> <ul style="list-style-type: none"> Incorporate approaches applicable to distance education
e) Describe how you have improved your SLO process and engaged in dialogue about assessment results.	<ul style="list-style-type: none"> “TracDat” to “Nuventive”
f) Discuss any findings from SLO/PLO assessments that help to justify recommendations.	
g) List any related recommendations.	<ul style="list-style-type: none"> “TracDat” to “Nuventive” As training sessions have historically been offered, clarify what kind of training and/or timing of training is recommended
5. Analysis of Student Feedback	Comments
a) Describe the results of relevant surveys in each of the following areas:	
i. Student Support	
ii. Curriculum	<ul style="list-style-type: none"> P. 53 (1st sentence in response below Figure 50) - Perhaps “intrigue” to “interest”
iii. Facilities, Equipment, and Technology	
iv. Program Objectives	
b) Discuss the implications of the survey results for the program.	
c) Discuss the results of other relevant surveys.	
d) List any related recommendations.	<ul style="list-style-type: none"> Fix the numbering of the recommendations (i.e., change recommendation #3 regarding the Math Study Center tutors to #2) Rec #5 – Make note of the fact that more space is required to accommodate additional class sections
6. Facilities and Equipment	Comments

a) Describe and assess the existing program facilities and equipment.	
b) Explain the immediate (1-2 years) needs related to facilities and equipment. Provide a cost estimate for each need and explain how it will help the program better meet its goals.	
c) Explain the long-range (2-4+ years) needs related to facilities and equipment. Provide a cost estimate for each need and explain how it will help the program better meet its goals.	
d) List any related recommendations.	<ul style="list-style-type: none"> • Rec #5 – As it was previously stated elsewhere that more office space is needed, perhaps add a note here that additional office space is requested elsewhere • Rec #6 – “mouses” to “mice”
7. Technology and Software	Comments
a) Describe and assess the adequacy and currency of technology and software used by program.	
b) Explain the immediate (1-2 years) needs related to technology and software. Provide a cost estimate for each need and explain how it will help the program better meet its goals.	
c) Explain the long-range (2-4+ years) needs related to technology and software. Provide a cost estimate for each need and explain how it will help the program better meet its goals	
d) List any related recommendations.	<ul style="list-style-type: none"> • Add recommendation related to creating a cycle for maintenance, repair, and replacement of technology and software (including renewal of licenses).
8. Staffing	Comments
a) Describe the program’s current staffing, including faculty, administration, and classified staff.	<ul style="list-style-type: none"> • P. 71 – Re-phrase the sentence beginning “As AB 705 nears ...” to reflect that fact that AB 705 has already been implemented

b) Explain and justify the program's staffing needs in the immediate (1-2 years) and long-term (2-4+ years). Provide cost estimates and explain how position/s will help program better meet its goals.	
c) List any related recommendations.	
9. Future Direction and Vision	Comments
a) Describe relevant changes within the academic field/industry. How will these changes impact the program in the next four years?	
b) Explain the direction and vision of the program and how you plan to achieve it.	
c) List any related recommendations.	
10. Prioritized Recommendations	Comments
a) Provide a single, prioritized list of recommendations and needs for your program/department (drawn from your recommendations in sections 2-8). Include cost estimates and list the college strategic initiative that supports each recommendation (see Appendix A). Use the following chart format to organize your recommendations.	
b) Explain why the list is prioritized in this way.	