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| **Mt. San Antonio College****Equivalency Committee** | **Minutes****April 4, 2022****4:00 pm - 5:00 pm** |

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|  | Chisato Uyeki, Chair  | x | Kristina Allende | x | Roger Willis |  | Joanne Franco, HR (non-voting) |
| x | Dana Miho | x | Chaz Perea |  | Kambiz Khoddam (alternate) | x | Kelly FowlerManager (non-voting) |
| x | Joshua Christ | x | Guests: Jimmy Tamayo | x | Stacy Manifredi, HR (non-voting) |  | *Minutes by Roger* |

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| **Item/Comments/Discussion** | **Outcome** | **Outcome w/out personal info** |
| **I** | **Review 2/14/22 minutes**  | The committee reviewed and accepted the minutes from 2/14/22 by acclamation.  |  |
| **II** | **Information/Public Comment** | None.  |  |
| **III** | **Items for Action/Discussion** |  |  |
|  | MQs for discipline: MathematicsMasters in mathematics or applied mathematics OR Bachelor’s in either of the above AND Masters in Statistics, Physics, or mathematics education OR the equivalent.2. MQs for discipline: BiologyMaster’s in any biological science OR Bachelor’s in any biological science AND Master’s in biochemistry, biophysics, or marine science OR the equivalent |  | **Equivalency Requests in Mathematics:**Candidate 1: Provided Graduate Transcript, but no undergrad. On the application they state they have an AS. Degree in Mathematics, a BS. in business management, and an MBA. * 1. This person is not requesting equivalency.
	2. Our discipline expert does not feel this transcript counts as equivalent.
	3. Fail.

Candidate 2: Master of Arts in Teaching Mathematics and Bachelor of Science in Mathematics * 1. The committee reviewed the following degrees in Teaching Mathematics:
	2. <https://www.fullerton.edu/math/programs/masterteaching.php>
	3. <https://nau.edu/math/masters-degrees/ms-mathematics-education/>
	4. Mathematics Teaching and Education seem to be a semantic issue rather than a equivalency issue.
	5. Pass

Candidate 3: BS/MA in Actuarial Science, MS/PhD in Statistics * 1. Has a Bachelor’s Degree in Actuarial Science that includes over 60 units of math credit in courses such as Probability, Actuary Science, Statistics, Calculus, Algebra, and Topology.
	2. Also has a PhD in Statistics from The University of Iowa comprising 77 Semester Units.
	3. Upon further inspection the candidates also attained an MS in Statistics and meets MQ’s.
	4. The committee reviewed the following degree in Actuarial Science:
	5. <https://www.ucf.edu/degree/actuarial-science-bs/>
	6. Jimmy Tamayo states that Actuarial Science is related to business statistics.
	7. Meet MQ’s

Candidate 4: Diploma in Science and Technology (International), Master of Science in Electrical Engineering, PhD in Electrical Engineering. (USC)* 1. The committee and our discipline specialist have concerns about the level of mathematics courses completed at the graduate level. There is a lack of higher level math common in Mathematics graduate programs.
	2. The committee reviewed the following degree in Electrical Engineering.
	3. <https://www.csuchico.edu/catalog/cat03/programs/engr/ms_elen.html>
	4. Fail.

Candidate 5: Master’s in Mathematics (currently enrolled), Master’s in Psychology, Bachelor’s in Mathematics. * 1. CSULB lists their MS in Mathematics at 36 Units (including six unit thesis).
	2. Has completed 21 units in their current Master’s program in Mathematics. .
	3. Also holds a Masters Degree in Psychology which included a 3 unit course in “Research and Statistical Methods,” and 3 units in “Tests and Measurements.”
	4. The Mathematics degree does not post until December, and the committee ruled that the Master’s in Psychology was not equivalent.
	5. The committee reviewed the following degrees in Mathematics and Statistics:
	6. <http://catalog.csulb.edu/preview_program.php?catoid=6&poid=2983>
	7. <https://www.calstatela.edu/academic/psych/MA%20grad%20program.html>
	8. Fail.

Candidate 6: BS in Human Services, MA in Education/Elementary* 1. The committee and discipline expert do not see any evidence of graduate level mathematics courses in these transcripts.
	2. Fail.

Candidate 7: BS in Mathematics. MS in Applied Statistics. * 1. The committee reviewed the following degrees in Statistics.
	2. The committee determined that this candidate does in fact meet MQs.
	3. <https://grad.ucla.edu/programs/physical-sciences/statistics-department/statistics-master-of-applied-statistics/>
	4. <https://www.fullerton.edu/math/programs/masterstats.php>
	5. Pass.

Candidate 8: BA in Pure Mathematics, MS in Computational Applied Mathematics, AST in Mathematics * 1. Degree will be conferred in May.
	2. This candidate will meet MQ’s at the time they would be hired.
	3. Pass.

Candidate 9:BA in Geology, MS in Statistical Practice* 1. Holds a Master’s Degree in Statistical Practice.
	2. Holds a Bachelor’s Degree in Geology with specific math courses: Advanced Problem Solving, Calculus I, Calculus III, Macroeconomics, Physics, Probability, Foundations of higher math, and Differential equations. They also hold a post-bac specialization with courses in Statistics (likely a pre-requisite for a Master’s Degree).
	3. According to our discipline expert, and after the committee conferred, it was determined that this bachelor’s degree lacks applied mathematics courses present in a typical Mathematics Degree.
	4. Fail.

**Equivalency Requests in Biological Science**:Candidate 1:MS Regenerative Studies? BS in Environmental Biology. * 1. The Committee reviewed the following degrees in biological sciences:
	2. <https://www.cpp.edu/env/lyle/degrees-admissions/ms-regenerative-studies.shtml>
	3. We are not seeing Biological Sciences courses in the MS.
	4. Fail

Candidate 2: AS in Ornamental Horticulture. BS in Environmental Biology, MS in Regenerative Studies.* 1. After consulting with our discipline expert, the MS, in the expert view, is closer to interdisciplinary Studies than biological sciences and lacks the requisite graduate courses.
	2. Fail.

Candidate 3: PhD in Biochemistry and Molecular Biology. BS in Biochemistry and Molecular Biology. * 1. The committee reviewed the following Biological Sciences degrees and determined that the PhD in Biochemistry was equivalent to a Master’s Degree:
	2. <https://www.bu.edu/academics/grs/programs/molecular-biology-cell-biology-biochemistry/phd/>
	3. <https://catalog.csusm.edu/content.php?filter%5B27%5D=BIOL&filter%5B29%5D=&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%5D=1&filter%5Bcpage%5D=1&cur_cat_oid=6&expand=&navoid=620&search_database=Filter#acalog_template_course_filter>
	4. Pass.

Candidate 4:1. MA in Ecology and Evolutionary Biology. MS in Environmental Science. BS in Marine Biology.
	1. With the guidance of the discipline expert, the committee determined that both of these degrees meet our minimum qualification standards.
	2. Pass
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| **IV** |  | **Future Meeting Dates: 2022 Meetings: 3:30-5:00pm 4th Monday of each month and other Mondays 4-5 as needed** |