



**The Ohio Articulation and Transfer Network (OATN)
Ohio Mathematics Initiative Faculty Co-Leads Meeting
WebEx Virtual Meeting**

Friday, August 28, 2020

9:30 a.m. to 12:00 p.m.

Present: Karl Hess, Lee Wayand, Ricardo Moena, Andrew Tonge, Brad Findell, Jim Fowler, and Luis Casian

ODHE/OATN and ODE Staff: Zoe Woodbury, Krista Maxson, Paula Compton, Candice Grant, Stephanie McCann, Michelle Blaney, Stephanie Davidson, Jessi Spencer, and Anna Cannelongo

I. Welcome

The meeting convened with re-introductions from each subgroup co-lead and Ohio Department of Education (ODE) and Ohio Department of Higher Education (ODHE) attendee participating.

II. How Are Things Going Discussion

Dr. Lee Wayand, Associate Professor of Mathematics at Columbus State Community College facilitated the discussion on campus activity during COVID-19. Dr. Wayand discussed that most courses at Columbus State are being conducted online with exceptions to those that have accreditation requirements. He added the Quantitative Reasoning (QR) course has moved fully online and that they are seeing enrollment numbers at the institution increase. Dr. Ricardo Moena, Assistant Department Head and Professor of Mathematical Sciences at the University of Cincinnati shared that the University of Cincinnati has also seen high enrollment numbers and that many courses are being taught fully online or through hybrid approaches. Dr. Brad Findell, Associate Director of Mathematics Programs for Teachers at The Ohio State University and Dr. Jim Fowler Associate Professor of Mathematics at The Ohio State University also shared enrollment at The Ohio State University has slightly decreased however, courses such as Linear Algebra are at full capacity, while courses such as Mathematics for Teachers have decreased enrollment. Mathematics courses are being taught mostly online with a few face-to-face and hybrid courses. Mr. Karl Hess, Chair of Mathematics at Sinclair Community College and Dr. Andrew Tonge, Chair of Mathematics at Kent State University also shared enrollment is down slightly due to COVID-19. Both mentioned mathematics courses at their institutions are mostly being held remotely with a few sections offering face-to-face or hybrid.

III. Review of FY20 Accomplishments and Challenges

Mr. Hess provided an update on Subgroup 1 progress. He mentioned that a series of regional workshops were held to share mathematics co-requisites. These workshops were held in fall 2019 and postponed in spring 2020 due to COVID-19. Subgroup 1 is

working to determine goals for next year however, plan to meet with Subgroup 2 to discuss intersection of co-requisites and new curriculum development in terms of Pre-Calculus.

Dr. Moena, provided updates to mathematic course learning outcome development. He mentioned that Mathematics for Elementary Education I & II has been announced with work from the subgroup to take place on finalizing supporting illustrations. Technical Mathematics I & II learning outcomes are currently out with Subgroup 2 for feedback with endorsement scheduled this fall. Discrete Mathematics also plans to send out learning outcomes for statewide review this fall, while Life Science Calculus I & II, Data Science, and Pre-Calculus learning outcomes are currently under development. Subgroup 2 anticipates many projects to conclude in the next academic year.

Dr. Fowler provided attendees with an update that Subgroup 3 held various webinars in the past year. These related to Open Education Resources (OER) and panel discussions on online teaching. The subgroup is making progress on Fast Facts and plans to host additional webinars in the upcoming year.

Dr. Stephanie McCann spoke on behalf of Subgroup 4. She mentioned that in the past year the subgroup has worked with ODHE to create a data page on Knowledge Base where institutions can upload and share data statewide.

Dr. Wayand provided attendees with an update around Subgroup 5. The subgroup has been working to reboot itself with representatives from 2-year and 4-year Ohio public institutions of higher education and high school representatives. In collaboration with ODE, the subgroup anticipates a fall 2020 meeting to continue discussions around smoother transition between secondary and postsecondary mathematics. Ms. Anna Cannelongo, Education Program Specialist- Education at the ODE showcased the ODE mathematics pathways model that consists of five areas. These include Data Science Foundation, Quantitative Reasoning, Statistics and Probability, Discrete Mathematics, and Pre-Calculus (Algebra 2 for Calculus based STEM). The model currently ties in related careers however, additions will be made to the model. Ms. Cannelongo mentioned that the updated model will be used for marketing to inform students and provide guidance across the state.

Dr. Luis Casian, Dean of Natural and Mathematical Sciences at The Ohio State University (OSU) joined the discussion and provided co-leads with an update on the Ohio Statewide Math Outreach Project. He went on to mention that members of the project plan to meet to discuss next steps to continue building awareness and support for the project. With this project tying secondary to postsecondary mathematics, Dr. Wayand mentioned that Subgroup 5 may be a good fit to assist with promoting the initiative. Ms. Cannelongo also mentioned that the group should partner with Women in

Analytics to assist with the diversity piece. Dr. Tonge added that Kent State's Women in Math program would welcome collaboration with the Ohio Statewide Math Outreach Project. He also added thoughts about connecting this initiative with Choose Ohio First (COF) funding.

IV. Review of FY21 Goals

Mr. Hess suggested review of co-requisites as a goal for Subgroup 1 in the upcoming year. With new pathways and course learning outcomes developed it may be of benefit to determine if co-requisites should also be reviewed.

Dr. Moena discussed goals of Subgroup 2 include moving beyond guidelines and shifting to learning outcomes but to also think about how course learning outcomes can be better not only in terms of breadth but also depth. He also shared a possible statewide goal of institutions moving away from textbooks and shifting to more cost-effective platforms such as OERs.

Dr. Fowler discussed that a goal for Subgroup 3 includes promotion of OERs statewide, as well as progressing Fast Facts and holding webinars in the upcoming year.

Dr. Wayand suggested a goal for Subgroup 5 is bridging secondary and postsecondary mathematics statewide and continuing dialog and open communication with two-year and four-year Ohio public higher education institutions and Ohio high schools.

V. Faculty Group Four Discussion (Data and Research)

Dr. McCann opened the discussion by suggesting the elimination of Subgroup 4 and allowing each of the remaining subgroups to conduct their own research as needed. She went on to discuss that this may involve working with institutions to share and post data and best practices within the Knowledge Base platform and that this can also allow institutions to improve their institutional practices. Dr. McCann went on to add that Strong Start to Finish (SSFT) data has been made available statewide, as well as data collections from Complete College America. With these data sets now available and the difficulty of combing through HEI data, Dr. McCann reiterated a suggestion to eliminate Subgroup 4. Those in attendance agreed with the elimination of the subgroup. Attendees had consensus that Subgroup 4 will stand "as is" within the OMI to eliminate confusion on achieved work rather than shifting Subgroup 5 as its replacement.

VI. For the Good of the Order

Those in attendance closed out the meeting by discussing crossover assistance between subgroups, inviting the Data Science writing panel lead to future Subgroup 5 discussions, and developing agenda items for next year's OMI Chairs/Leads Network meetings. Items included SSTF updates, updates on the Ohio Statewide Math Outreach Project, Data Science updates, discussions around long-term goals of pathways, and

updates from each of the subgroup leads. Dr. Paula Compton concluded the meeting by thanking the subgroup leads for their service the past year and reminding each to share the most recent OMI annual report with those on their campus. This was followed by meeting adjournment.