



Subgroup Meeting Summary

Subgroup #: OTM Panel/Subgroup 2

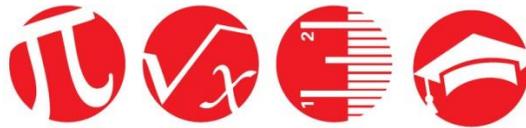
Meeting Date: 11/13/2015

Meeting Time: 10:00-2:30

Meeting Location (WebEx, OBR, etc.): Ohio Department of Higher Education

Subgroup Decisions/Meeting Outcomes:

1. The objectives of the meeting were to 1) discuss the survey results of the proposed Quantitative Reasoning course, 2) refine the drafted proposed learning outcomes for College Algebra (TMM001) and Introductory Statistics (TMM010), and to 3) discuss the next steps.
2. Dr. Carl Stitz, Dr. Jeff Zeager, Dr. Lee Wayand, and Dr. Pramod Kanwar have worked on the revision of the learning outcomes for TMM001 College Algebra. Dr. Stitz presented on behalf of the team and went over each proposed learning outcome. The structure of the learning outcome document lists essential outcomes (big picture outcomes) and sample tasks. One of the primary purposes of the proposed learning outcomes is for faculty who teach College Algebra to move away from simply thinking about "topic" coverage (what) and emphasize more on student learning activities and assessments (how). The proposal will eliminate the reference to the 70% rule as all of the learning outcomes are required and the credit hour requirements were removed last year. Subgroup 2 members made a few minor wording suggestions and gave support for moving forward. The group also agreed that institutions with a currently approved course for TMM001 will not have to resubmit to the review panel. In other words, the current approval status will remain, and the new version/format will apply to any new submissions.
3. Dr. Andy Chang, Dr. Oana Mocioalca, and Ms. Terry Calvert have worked on the revision of the learning outcomes for TMM010 Introductory Statistics. Dr. Chang presented on behalf of the team and gave a brief summary of the proposed learning outcomes and sample tasks. He asked Subgroup 2 members for their feedback. The structure, purpose, and approach used in the proposed document is the same as the College Algebra work. The proposal lists only the essential learning outcomes. This approach provides institutions with flexibility to add any other learning outcomes that may enrich the student learning. The proposal will also eliminate the reference to 70% rule as all of the learning outcomes are required and the credit hour requirements were removed last year. Subgroup 2 members made a few minor wording suggestions and gave support for moving forward. The group further agreed that institutions with a currently approved course for TMM010 will not have to resubmit to the review panel. In other words, the current approval status will remain, and the new version/format will apply to any new submissions.
4. Mr. James Willis, Ms. Michelle Younker, Mr. Aaron Altose, and Dr. Andrew Tonge have been working on a presentation together to share their analysis of the findings/feedback from the endorsement survey for the proposed Quantitative Reasoning (QR) course (TMM011). Mr. Willis presented on behalf of the team and went over each result per question with insightful comments and editing suggestions. Subgroup 2 members received a revised version of the QR learning outcomes document and a document with survey comments compiled by the QR lead team. Subgroup 2 members were engaged in the discussion, and additional feedback and clarification were made during the meeting. Overall, the institutions supported the creation of a new TMM011 course and the learning outcomes themselves. Subgroup 2 members did suggest to Mr. Willis and his lead team



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to focus on a couple of specific learning outcomes (2.3 and 2.4) and provide specific examples at the 1/22 Ohio Mathematics Initiative Chairs/Leads Network meeting. The subgroup also agreed to eliminate non-essential outcomes and the reference to the 70% rule in the document. With several edits suggested by the Subgroup 2 members, they felt comfortable with finalizing the proposed and endorsed learning outcomes. Dr. Mocioalca will provide a few verbiage changes on the statistics section to Mr. Willis in a week or two.

5. Next steps were discussed. Subgroup 2 members were asked what would be the next course(s) to work on now that the revision/development work on QR, College Algebra, and Statistics is approaching the end. Suggestions included revising the TMM003 Trigonometry learning outcomes and adding a new course in mathematics for educators. The group also discussed and agreed that TMM002 (Pre-Calculus) should really be a combination of learning outcomes for TMM001 and 003, nothing more or less. Therefore, TMM003 work was suggested for the next phase of work.
6. Collectively Subgroup 2 said their thanks and sent off Dr. Carl Stitz with best wishes as this was his last meeting as a Subgroup 2 and Ohio Transfer Module Mathematics, Statistics, and Logic Review Panel member.

Subgroup Homework/Follow-Up (if any):

1. Dr. Carl Stitz, Dr. Jeff Zeager, Dr. Lee Wayand, and Dr. Pramod Kanwar will finalize the learning outcomes for College Algebra and send to Mr. Hideo Tsuchida.
2. Dr. Oana Mocioalca, Ms. Terry Calvert, and Dr. Andy Chang will finalize the learning outcomes for Introductory Statistics and send to Mr. Tsuchida.
3. Mr. Jim Willis, Mr. Aaron Altose, Ms. Michelle Younker, and Dr. Andrew Tonge will finalize the learning outcomes for Quantative Reasoning and send to Mr. Tsuchida and Dr. Paula Compton. Subgroup 2 members with any additional suggestions are to send them to Mr. Willis ASAP.

Next Meeting: (To Be Determined)