

Core-Plus Mathematics
Course 4: Preparation for Calculus
July 23-27, 2012
Preliminary Agenda

Monday, July 23

- 8:00 a.m. Coffee, Rolls, Welcome, and Introductions (Schneider Hall, Student Lounge)
- 8:30 a.m. Welcome, Goals of the Workshop, and Introductions
Overview of the Fourth-Year of the Curriculum
- 9:00 a.m. Modeling the Instruction of Unit 1, *Families of Functions*, and Lesson Planning
- 12:00 p.m. Lunch – Bernhard Center Room 157-159
- 1:00 p.m. Instruction:
Goals
Pacing issues
Questioning
PUMPs
- 2:30 p.m. Modeling the Instruction of Unit 2, *Vectors and Motion*
Using *CPMP-Tools* Geometry software
- 3:15 p.m. *Vectors and Motion*, continued
- 4:30 p.m. Dismissal

Tuesday, July 24

- 8:00 a.m. Unit 3, *Algebraic Functions and Equations* and Lesson Planning
- 11:00 a.m. Choice of Joining Course 2 for Assessment
Embedded assessment in the *Core-Plus Mathematics* curriculum
Homework – Developing connected understanding and automating skills
Student work and rubrics
Student toolkits and paperwork management
- OR
- Continuing work on Unit 3
- 12:00 p.m. Lunch – Bernhard Center Room 157-159
- 1:00 p.m. Unit 4, *Trigonometric Functions and Equations*
- 3:30 p.m. A glimpse into CPMP classrooms – Joint Course 1-4 Session
- 4:30 p.m. Dismissal

Morning and afternoon breaks will be provided.

Wednesday, July 25

- 8:00 a.m. Unit 5, *Exponential Functions, Logarithms, and Data Modeling*
Using *CPMP-Tools* Statistics software
- 10:45 a.m. *Exponential Functions, Logarithms, and Data Modeling*, continued
- 12:00 p.m. Lunch – Bernhard Center Room 157-159
- 1:00 p.m. Unit 6, *Surfaces and Cross Sections*
- 3:30 p.m. Observing and discussing a Core-Plus Mathematics teaching episode
- 4:30 p.m. Dismissal

Thursday, July 26

- 8:00 a.m. Unit 6, *Surfaces and Cross Sections*, continued
Using *CPMP-Tools*
- 10:30 a.m. Unit 7, *Concepts of Calculus*
- 12:00 p.m. Lunch – Bernhard Center Room 157-159
- 1:00 p.m. *Concepts of Calculus*, continued
- 3:30 p.m. Choice of:
(1) More exploring of *CPMP-Tools* (Course 1 Room #1280)
(2) Mathematics program goals and evaluation plans (Course 3 Room #1340)
(3) Building community support (Course 4 Room #2345)
- 4:30 p.m. Dismissal

Friday, July 27

- 8:00 a.m. Unit 8, *Counting Methods and Induction*
- 11:00 a.m. Remaining Questions and Workshop Evaluation
- 12:00 p.m. Dismissal
Lunch – Bernhard Center Room 157-159

Morning and afternoon breaks will be provided.