Earn 1 hour of graduate credit from Ashland University
by attending 15 hours of **Crooked River/GCCTM** events and completing a two page written assignment.

"NEO Math Learning Network: 2019-2020 Series"

Math education professionals engage in research-informed, standards-based learning sessions to advance both math teaching and learning for all stakeholders. Learning sessions are hosted by the Greater Cleveland Council of Teachers of Mathematics and/or the Crooked River Math Teachers' Circle.

The Crooked River Math Teachers' Circle (CRMTC) is a group of educators who have caught the mathematics bug. We love math, or are at least curious enough to learn something new. We gather in order to experience the joy and creativity of doing mathematics, no strings attached. Mathematics does not involve problem solving, inquiry, sense-making and reasoning, but rather **IS** all of these things. We believe everyone is a capable mathematician when given the opportunity to truly engage mathematically. We hope that during the process of doing mathematics together we will build relationships among university faculty and area mathematics teachers for the purpose of making mathematics a wonderfully contagious epidemic in our teachers and their classrooms.

At each meeting, participants will work together to solve one or two low-floor, high-ceiling tasks. By engaging in these tasks, participants experience first-hand the **Standards for Mathematical Practice** and **"productive struggle."** Participants will also deepen their **understanding of mathematical content,** learn about **NCTM's Eight Effective Teaching Practices**, and have an opportunity to reflect on their own classroom practice.

For each CRMTC meeting that you attend, you can earn **up to** 3 hours towards the needed 15 hours for graduate credit.   Here are the dates of the 2019-2020 CRMTC school year meetings: Thursday, September 19, 2019, Thursday, November 21, 2019, Saturday, January 25, 2020-AM session, Saturday, January 25, 2020-PM session, Thursday, March 19, 2019, Thursday, May 21, 2019.

The purpose of the Greater Cleveland Council of Teachers of Mathematics (GCCTM) is to encourage an active interest in the teaching and learning of mathematics and to work toward the improvement of mathematics education in the Greater Cleveland area. Throughout the school year, GCCTM provides opportunities for professional development and growth in mathematics education at all levels including two evening meetings, two Saturday mini-conferences/workshops, and an awards banquet with speaker. Note: This year's Awards Banquet speaker is NCTM President-Elect Trena Wilkerson.

- Earn **up to** 2.25 hours by attending **each** GCCTM evening meetings on September 24, 2019 and March 12, 2020.
- Earn **up to** 4 hours by attending **each** GCCTM's Saturday Mini-Conferences on November 23, 2019 and February 1, 2020.
- Earn **up to** 1 hour by attending the GCCTM Awards Banquet and Speaker on May 7, 2020.

To earn one hour of graduate of credit, you must
- Complete the official Ashland University "paperwork" for the course and pay a fee of $225 for one graduate hour by **April 1, 2020.**   Contact Sara Good at goods@parmacityschools.org or Lynn Aring at Lynn.Aring@gmail.com for information on how to apply for this credit.
- Accumulate at least 15 hours of Professional Development by attending CRMTC/GCCTM meetings and submit the hours verification form **upon completion of the hours** but no later than **May 23, 2020.** E-mail Lynn.Aring@gmail.com to let her know that you have submitted the form.
- Complete a two page (single-spaced) written assignment and E-mail it to goods@parmacityschools.org by **May 25, 2020**. The written assignment may either be a reflection on what you learned from your overall GCCTM/CRMTC experience or a **new** lesson plan that was created based on your GCCTM/CRMTC experience.