

## **T<sup>3™</sup> Teacher Leader Cadre and T<sup>3™</sup> District Outreach Program Course Requirements**

The essential reason for in-service and pre-service teachers to participate in professional development programs like the T<sup>3™</sup> Teacher Leader Cadre or the T<sup>3™</sup> District Outreach Program is to improve a teacher's pedagogical skills and subject matter knowledge for the math and science classroom. To that end, the credit assignment for course credit for MTH 595 or BIO 597 through Central Michigan University is to plan, execute, and self-evaluate classroom lessons that utilize the knowledge and skills learned during the PD experience with real students in actual classrooms.

**Planning:** Lessons should be planned to reflect the *NCTM Process Standards* of problem solving, reasoning, multiple representations, connections, and communications as defined by the *Principles and Standards for School Mathematics* (NCTM, 2000). These lessons should be learning activities utilizing guided discovery, hands-on learning, exploration, and/or other participatory lessons where students engage in active learning of concepts or problem solving through multiple representations and connections. Student communication of their reasoning and thought processes should be a primary requirement of every lesson.

The planning of each lesson should be done in consultation with one or more colleagues, preferably members of the staff who also attended the PD sessions and who are using similar technology to teach mathematics or science at a similar level.

**Execution:** The teacher applying for credit will teach the planned lesson to actual students in a real classroom. A video record of the teaching episode will be made to document what actually happened in the classroom. The focus of the video record should be both the teacher's moves and the student activities in the classroom. The purpose of the video record is to provide material suitable for the self-evaluation that is to follow.

**Self-Evaluation:** The teacher applying for credit, in consultation with the colleagues who helped plan the lesson, will evaluate the video lesson. A reflective journal containing the self-evaluation will be prepared by the teacher applying for credit. The foci of the self-evaluation will be:

- How well the objectives of the lesson were actually met;
- How well did the teacher perform within this new teaching context;
- How well the use of technology acted as a catalyst to help make the lesson successful;

- How well did the lesson plan actually reflect the NCTM Process Standards;
- How well the students reacted to mathematics or science content in the lesson;
- How well did the students react to the integration or implementation of technology in the lesson;
- How well did the students react to the lesson as a whole;
- What went right in the lesson;
- What needs to be changed before the lesson is taught again.

**Reporting:** Copies of the lesson plan(s), the digital video (on CD or DVD), and the reflective journal entries will be forwarded to the Instructor of Record for the course on electronic media. One complete lesson study (i.e. lesson plan, video, and reflective journal) is required for each hour of credit. This evidence should be copies of the work completed and will not be returned. When the Instructor of Record has completed review of the submitted material, these materials will be forwarded to CMU.

**Credit Hours:** Credit for these courses will be through Central Michigan University's Department of Mathematics or Department of Biology for either MTH 595, Special Topics in Mathematics Education or BIO 597, Special Topics in Biology.

Semester hours of credit for these courses varies from 1 to 3 hours depending on the length of the PD experience. One complete lesson study must be completed for each credit hour of course work. Teacher Leader Cadre participants (9-day training) may register for 1 to 3 hours of credit. District Outreach Program participants may register for 1 or 2 hours of credit for a 5-day PD experience or 1 hours of credit for a 3-day or 4-day PD experience.

For more information about this program, contact CMU's, Off-Campus Programs, 802 Industrial Drive, Mount Pleasant, MI 48858. Phone (800) 950-1144, ext. 4477 or email [sharon.horgsan@cmich.edu](mailto:sharon.horgsan@cmich.edu).