



Metro RESA Online STEM Endorsement

The STEM endorsement is a 160-hour endorsement with two courses with an embedded Residency. Successful candidates will earn a STEM Educator field to their teaching certificates.

- **Elements of STEM (60 hours) with STEM in Action Residency (20 hours)** – 50% of the course will be offered synchronously with the option to meet face to face and 50% online asynchronously
- **Intersections of STEM (60 hours) with STEM in Action Residency (20 hours)** – 30% of the course will be offered synchronously with the option to meet face to face and 70% online asynchronously

Admission Requirements

- Must hold a professional level certificate – T-4 or higher
- Candidates must have at least one year of successful teaching experience in a STEM field
- Candidates must be recommended by their employing principal and system level leadership

Course 1: Elements of STEM, a 60-hour course with an additional 20 hours of an embedded **STEM in Action** residency to apply the elements of STEM in their classrooms. 50% of the course will be offered synchronously online and 50% asynchronously. The course goals include:

- Analyze the core ideas, practices, and resources of the STEM disciplines: Science, Technology, Engineering, and Mathematics
- Intentionally integrate mathematics and science in logical, thoughtful ways
- Intentionally integrate technology and engineering with science and mathematics

Course 2: Intersections of STEM, a 60-hour course with an additional 20 hours of an embedded **STEM in Action** residency to apply the intersections of STEM in their classrooms. 70% of the course is offered asynchronously and 30% of the classes will be held in synchronous sessions. The course goals include:

- Integrating STEM disciplines through the development of a PBL unit

STEM in Action Residency is embedded throughout the courses and includes collaborative planning with STEM colleagues, visiting a STEM certified school, writing a grant, maintaining a collection of STEM resources and best practices, and teaching STEM lessons developed in coursework.

The endorsement classes will consist of K-12 teachers who teach a variety of STEM fields. There will be opportunities to differentiate the tasks across K-12 grade levels and STEM disciplines. Attention will be paid to the vertical alignment of the standards presented.

The cost is \$350 per course/\$700 Total. For more information contact: Donna Barrett (404)643-2017 or donna.barrett@mresa.org

To start the application process, please complete the registration form at: bit.ly/MRESAstem