



## Metro RESA Online STEM Endorsement

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

### Admission Requirements

- Must hold a professional level renewable certificate at the T-4 level or higher
- Candidates must have at least one year of teaching experience
- Candidates must be recommended by their employing principal or supervisor

**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 analyzing the core ideas, practices, and resources of the STEM disciplines and Intentionally integrating STEM through logical, thoughtful ways.

**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 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.*

### What have participant said?

- *“The most beneficial aspects of course were the resources provided, the model of high-quality STEM instruction, and the encouragement to grow in STEM leadership skills.”*
- *“All of the resources that I learned about. I thought there wasn't much more I could learn about STEM, but I have really learned new things and received some valuable resources.”*
- *“I learned a lot about how to develop 5E lessons and a PBL project based on STEM principles. The most beneficial aspect of this course was building and planning the PBL and implementing it in my classroom. By practicing a STEM unit, I was able to really understand how to put together a STEM and reflected how to teach STEM within a classroom.”*

The cost is \$525 for each course/\$1050 total and can be paid by individuals or schools/districts. For more information contact: Donna Barrett (404)643-2017 or [donna.barrett@mresa.org](mailto:donna.barrett@mresa.org)

To start the application process, please complete the registration form at: [bit.ly/MRESAstem](http://bit.ly/MRESAstem)