

Beaufort County Schools STEM Foundations



Course Descriptions

October 20, 2015

Day 1: Getting Started with STEM: Enhancing Technology Integration

Transform teaching and learning towards STEM student-centered classrooms with Discovery Education Streaming Plus, an innovative instructional resource designed to support transdisciplinary learning experiences. Participants will be immersed in Discovery Education's extensive streaming library of rich and engaging media that spans all curriculum areas tied to inquiry based learning. This course is designed to engage teachers in the why and what of STEM and how real-world learning experiences engage students in rigorous learning experiences. Participants will have the opportunity to experience exemplar STEM learning and plan experiences for their own students.

December 1, 2015

Day 2: Centers-Based Teaching and Learning with STEM

Using a center-based approach, participants will experience a STEM-infused model lesson first hand, by moving through a variety of stations designed to build student content knowledge. Directions, management, resources and planning techniques for centers are shared as participants unpack this model and work collaboratively to create their own centers using materials and planning templates. This course uses a variety of instructional approaches such as whole group instruction, small group instruction and paired activities. In addition, facilitators will model effective instructional practice and encourage participant inquiry.

February 2, 2016

Day 3: Maximizing Student Engagement through STEM

The session brings to light an immersive experience designed to provide STEM leaders with authentic, innovative teaching and learning that incorporates rigorous, digital assignments with STEM infused practices. STEM leaders will explore educational research on rigor and scaffolding and translate those best practices to STEM instruction and digital tools. STEM leaders will also create a STEM infused digital assignment that includes two or more digital assets capitalizing on the universal design features embedded in Discovery Education Streaming and create pathways for all students to meet essential questions and learning objectives through STEM practices.

March 22, 2016

Day 4: Developing Foundations for STEM Experiences in the Classroom

Let's get started! A deeper examination of the Five Essential Elements of a STEM lesson will lead participants to explore effective STEM instruction through various forms of media, hands-on experiences and lesson analysis. A look at what "Real-World" truly means when tied to instruction related to student needs will take place through immersions. Participants will then be given planning time to develop their own integrated STEM lesson plan to use when they return to the classroom.