University of Massachusetts Boston - BATEC  
CSforMA Summer Professional Development Workshops

The CSforMA Professional Learning Institute for 2019 features intensive train-the-trainer courses in emerging technologies at no cost for educators. These courses track closely to our Digital Literacy and Computer Science standards and licensure requirements.

Courses are 4-5 days each (except for the stand-alone Code.org CS Fundamentals which are one-day) and are delivered by subject matter experts from across our state. All courses will start at 8:30AM and run until 4:30PM (with a slightly earlier release on Friday). You may only attend one course per week but you’re welcome to attend multiple weeks. Breakfast, lunch and parking are provided. In addition, a limited number of hotel rooms will be available for educators who are traveling from a distance. PDPs will be awarded based on contact hours.

Week of July 15-19, 2019

Code.org CS Discoveries (Grades 6-10) Professional Learning Institute

Computer Science Discoveries is appropriate for 6 - 10th grade students and can be taught as a semester or year-long introductory course (3-5 hours per week of instruction for 18 or 36 weeks). The 9-day professional development (five summer and four academic year) prepares educators to deliver the course which opens a wide lens on computer science by covering topics such as programming, physical computing, HTML/CSS, and data. The course inspires students as they build their own websites, apps, games, and physical computing devices. Apply at https://code.org/educate/professional-learning/middle-high

Code.org CS Principles (Grades 9-12) Professional Learning Institute

Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. The 9-day professional development (five summer and four academic year) prepares educators to deliver the course which covers many topics including the Internet, Big Data and Privacy, and Programming and Algorithms. More than a traditional introduction to programming, CS Principles is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. It is designed to prepare students (and teachers) who are new to computer science for the AP CS Principles exam. Apply at https://code.org/educate/professional-learning/middle-high

Computer Science Resources for K-5 Educators

Are you a K-5 educator? Join us on July 15-18, 2019 for a four-day workshop designed just for you. It will combine resources from Code.org’s CS Fundamentals and a related Learn to Code curriculum, curriculum modules developed by the MA Dept of Elementary and Secondary Education and Education Development Center to teach DLCS in Math and Science, and more. Register at http://events.constantcontact.com/register/event?llr=fhtgobab&oeidk=a07eg951g8515f65b48.
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Computational Thinking and Problem-Solving - A Course for Connecting Computing and the World of Work

Do you want your students to connect their computing capabilities to the world of work? This five-day workshop prepares educators to teach the yearlong curriculum in a classroom culture modeled after a professional workplace. Students are treated as responsible employees working together to produce quality products – their assignments and projects. They are exposed to business practices and given significant leadership roles in running the class; introducing collaboration, innovation, and critical thinking as well as safe technology. Leadership, employability, and technology skills are appraised as part of the grading rubric. The course focus is on systematic problem-solving strategies that can be applied to real-world problems. Register at http://events.constantcontact.com/register/event?llr=fhtrgobab&oeidk=a07ega6fdlc1b570770
Week of August 5-9, 2019

MicroControllers in Action: Raspberry Pi, Arduino and Micro:Bits

This five-day workshop will introduce participants to the Raspberry Pi, Arduino, and Micro:Bits - inexpensive controller platforms that can do amazing things. Learn, Play, and Create with these devices while participating in discussions as to how these devices can be used to drive interest in your programs. Register at

http://events.constantcontact.com/register/event?llr=fhtrgobab&oeidk=a07ega6gpu6815d4b59.

Data Visualization for Educators

This five-day workshop will focus on data visualization techniques. Participants will learn how to define, clean and present data; consider data ethics and responsible behaviors; and create aesthetically pleasing data visualizations that tell a story. They will leave the workshop with a project that they can implement in their classroom. Register at

http://events.constantcontact.com/register/event?llr=fhtrgobab&oeidk=a07ega6cy6i31edbf87.

Code.org CS Fundamentals Introductory Workshop

Are you an elementary educator for grades K-5 looking to bring Computer Science into your classroom, but not sure how? Code.org's CS Fundamentals one-day workshop is for you. Designed to be fun and engaging, Code.org’s progression of Computer Science Fundamentals courses blend online and "unplugged" non-computer activities to teach students computational thinking, problem solving, programming concepts and digital citizenship. Register at

https://studio.code.org/pd/workshops/6771/enroll.

Code.org CS Fundamentals Deep Dive Workshop

Do you have experience teaching CS Fundamentals to K-5 students? The “Deep Dive” is for you! This one-day workshop is focused on helping educators to explore more deeply into the teaching of CS Fundamentals, including specific classroom practices and ideas for fostering and developing a stronger classroom rapport that nurtures learners of all types. Register at