The School of Education's Neuro-Education Initiative furthers the understanding of how research findings from the cognitive and neurosciences has the potential to inform teaching and learning through research, collaboration, and advocacy. In partnership with the School of Medicine, Kennedy-Krieger Institute, and the Bloomberg School of Public Health, this initiative fosters dialogue among educators and brain science researchers to develop joint research projects and to enrich educational practice. Mariale Hardiman, EdD, is SOE professor and director of the Neuro-Education Institute. Hardiman, author of *Connecting Brain-Research with Effective Teaching* and *Brain-Targeted Teaching for 21st Century Schools*, said, “Linking brain research to education is extremely valuable to our understanding of student development and learning.” Hardiman is the former principal of a Blue Ribbon School in Baltimore City and teacher.

Follow Hardiman on Twitter @marialehardiman or on the web at braintargetedteaching.org

**Mind, Brain and Teaching Program and Specialization Goals**

- Identify areas in the learning sciences that have relevant application to teaching and learning in formal and informal learning settings. Examples include topics such as emotion and learning, memory, attention, cognitive development, learning differences, literacy, and numeracy.
- Identify basic brain structure and functions.
- Interpret findings from basic and applied research studies.
- Synthesize research findings and consider relevance to educational interventions.
- Apply content from courses to educational practices and policies.

**MIND, BRAIN AND TEACHING PROGRAMS**

**Graduate Certificate in Mind, Brain and Teaching**

The 15-credit graduate certificate in Mind, Brain and Teaching is designed for PK-20 teachers, administrators, and student support personnel who seek to explore how research in the cognitive and neurosciences has the potential to inform the field of education. Courses will promote integration of diverse disciplines that investigate human learning and development.

The certificate builds upon basic and applied research from the fields of cognitive science, psychology and brain science, neurology, neuroscience, and education. It will provide educators with knowledge of cognitive development and how emerging research in the brain sciences can inform educational practices and policies.

**Required Courses**

- 887.615 Explorations in Mind, Brain, and Teaching
- 887.616 Fundamentals of Cognitive Development
- 887.617 Neurobiology of Learning Differences
- 887.618 Cognitive Processes of Literacy & Numeracy
- 887.619 Special Topics in Brain Sciences
**MS in Educational Studies - Educational Studies**

**Individualized Interdisciplinary Option**

This Master of Science in Education with a concentration in Educational Studies program option is designed for educators interested in developing a customized course of study that reflects their personal career goals. Choose the online graduate certificate in Mind, Brain and Teaching and another graduate certificate from over 14 options to form a customized degree and learning experience.

**Online Doctor of Education with a Mind, Brain and Teaching Specialization**

This EdD program is a 54-credit, three-year program designed to prepare an exceptional corps of educational practitioner scholars, both nationally and internationally, who can set a high standard for transformational leadership in education, apply evidence-based practices to improve educational outcomes, and meet the vast challenges associated with improving learning outcomes in both public and private educational environments.

The Mind, Brain and Teaching specialization is designed for educators interested in exploring research from cognitive theories and neurosciences and its potential to inform the field of education. Courses will promote integration of diverse disciplines that investigate human learning and development. The specialization builds upon basic and applied research from the fields of cognitive science, psychology and brain sciences, neurology, neuroscience, and education. It provides educators with knowledge of how emerging research in the learning sciences can inform teaching and learning. Students who pursue this specialization will gain the knowledge and skills to interpret basic and applied research and apply relevant findings to educational practices and policies. This specialization is designed to support the development of knowledge, insights, and competencies among students with two different levels of prior knowledge in the learning sciences: those who have had limited formal exposure to the learning sciences, and those who have a master’s degree or graduate certificate in the learning sciences.

**Johns Hopkins University School of Education**

Established in 2007, the Johns Hopkins School of Education has quickly taken its place as a national leader in education reform through research and teaching. Grounded in the Johns Hopkins tradition of research and innovation, SOE is ranked among the top ten graduate schools of education in the nation by *U.S. News & World Report*.

**Contact Us**

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