



Education Specialist (EdS) Integrative STEM Education

Admission Requirements

Master's degree (3.3 min. graduate GPA); Faculty interview (face-to-face or Internet audio);
2 Writing samples; 3 letters of recommendation; Resume

EdS Degree Requirements

Approved Plan of Study; 30+ semester hours (SH) beyond master's; Field study; EdS Project;
Final examination. The Integrative STEM Education coursework for this degree (shown below)
is available online. Graduate coursework from other universities may be transferred in, or taken
online or conventionally from Virginia Tech (subject to approval by the student's graduate
committee).

Integrative STEM Education Core Courses (12+ SH)

EDCI 5804: STEM Education Foundations (3 SH)

EDCI 5814: STEM Education Pedagogy (3 SH)

EDCI 5824: STEM Education Trends and Issues (3 SH)

EDCI 5834: STEM Education Research (3 SH)

EDCI 5844: STEM Education Seminar (1 SH)

EDCI 5854: Biotechnology Literacy by Design (3 SH)

EDCI 5964: Field Study [Integrative STEM Education] (3 SH)

EDCI 5774: Readings in Technology Education (1 SH)

Research & Evaluation (6+ SH)

EDRE 5404: Foundations of Educational Research and Evaluation

EDCI 5834: STEM Education Research

Educational Foundations (6+ SH, including EDCI 5804 above)

Educational Foundations Elective (3 SH)

Cognate (3+ SH)

Courses outside the SOE, including STS; STEM content area courses; Architecture; etc.

Final Project (3+ SH)

Final project approved by student's graduate committee

For more information

Mark Sanders, *Integrative STEM Education*, 540-231-8173, msanders@vt.edu

Invent the Future