

SIG HPC Education

- The Community Speaks
- October 2, 2017

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UNIVERSITY

Doane University

Composed of three colleges:

- College of Arts & Sciences – traditional residential liberal arts campus; ~1100 FTE; offers the computational studies minors
- College of Education – undergraduate and graduate programs in education
- College of Professional Studies – undergraduate and graduate programs that serve non-traditional students
- COE & CPS have ~2000 total students enrolled



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Doane offers two computational studies related minors.

Computational Science – meant to complement majors in the natural sciences - biology, chemistry, physics, environmental science, and mathematics.

Computational Thinking – meant to complement majors in fine arts and humanities, business and economics, education, and the social sciences.



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2013 –

- faculty from Science & Mathematics, Business, and Social Science Divisions form a workgroup;
- hosted a workshop sponsored by XSEDE and Shodor (Steven Gordon and Robert Panoff);
- finalized and passed a curriculum proposal in fall

2014

- The two minors are officially offered
- Fundamentals of Computational Science course taught for first time
- A computational physics emphasis is offered for physics majors

2017

- our first CS (3) and CT (1) minor students graduated



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Computational Science Minor

Computational Thinking Minor



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Challenges

- Ownership of the computational studies program is diffuse.
- Undergraduate students are not familiar with the concept of computational science/thinking.
- Active recruitment of students is required.

