

## CUPM recommendations 3 and 5 at Valpo

Lara Pudwell  Valparaiso  
University  
`faculty.valpo.edu/lpudwell`  
`Lara.Pudwell@valpo.edu`

Indiana NExT panel  
October 7, 2017

# Data analysis, computing, & modeling

Required for math majors:

- ▶ CS 157 (Algorithms and Programming)
- ▶ STAT 240 (Statistical Analysis)

# Computing in Calculus



# Data analysis, computing, & modeling

Electives for math majors:

- ▶ variety of upper division Statistics courses and Applied Statistics minor
- ▶ MATH 320 (Dynamical Systems)
- ▶ MATH 321 (Mathematical Modeling of Infectious Diseases)
- ▶ MATH 322 (Optimization)
- ▶ MATH 370 (Numerical Analysis)
- ▶ MATH 371 (Experimental Mathematics) \*
- ▶ MATH 373 (Computational Linear Algebra)

# Mathematics from the perspective of another discipline

Recent cross-listed courses:

- ▶ CS 115 / MUS 101 (Computing and Music)
- ▶ BIO/MATH 290 (Topics: Biological Modeling of Plant Sex)

# Mathematics from the perspective of another discipline

Recent cross-listed courses:

- ▶ CS 115 / MUS 101 (Computing and Music)
- ▶ BIO/MATH 290 (Topics: Biological Modeling of Plant Sex)

Other venues:

- ▶ Statistics colloquium (consulting projects)
- ▶ Mathematics colloquium (student presentations)
- ▶ Valparaíso University - Colloquia on Innovative Science (guest lecturers)