

Biology, Physics, Chemistry, Engineering,  
Environmental Science, Climate,  
Economics, Medicine, ...

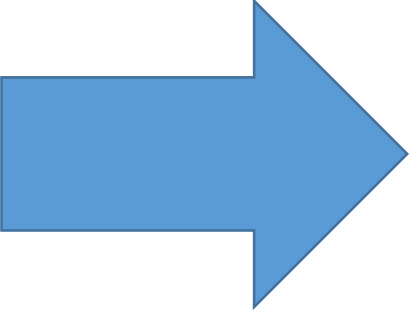
MATH + X

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**MATH**  **X**

# Issues to trigger transformation:

1. Lack of serious applications in gateway courses:

**Calculus I**

2. Lack of applied math in undergrad programs at

**Liberal Arts Colleges**

3. Training of PhD students for jobs that don't exist:

**collaborative vs. individual work**