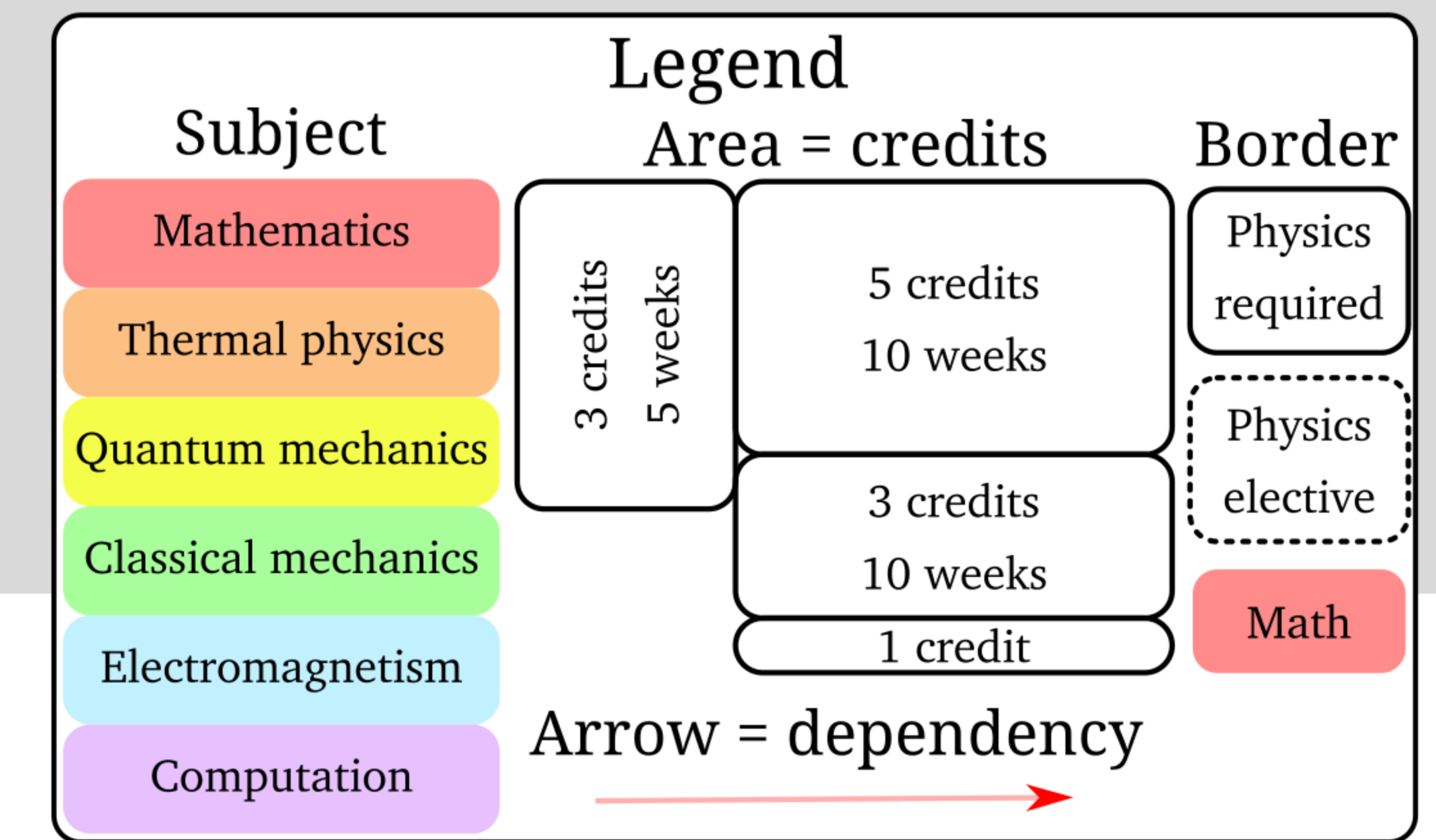
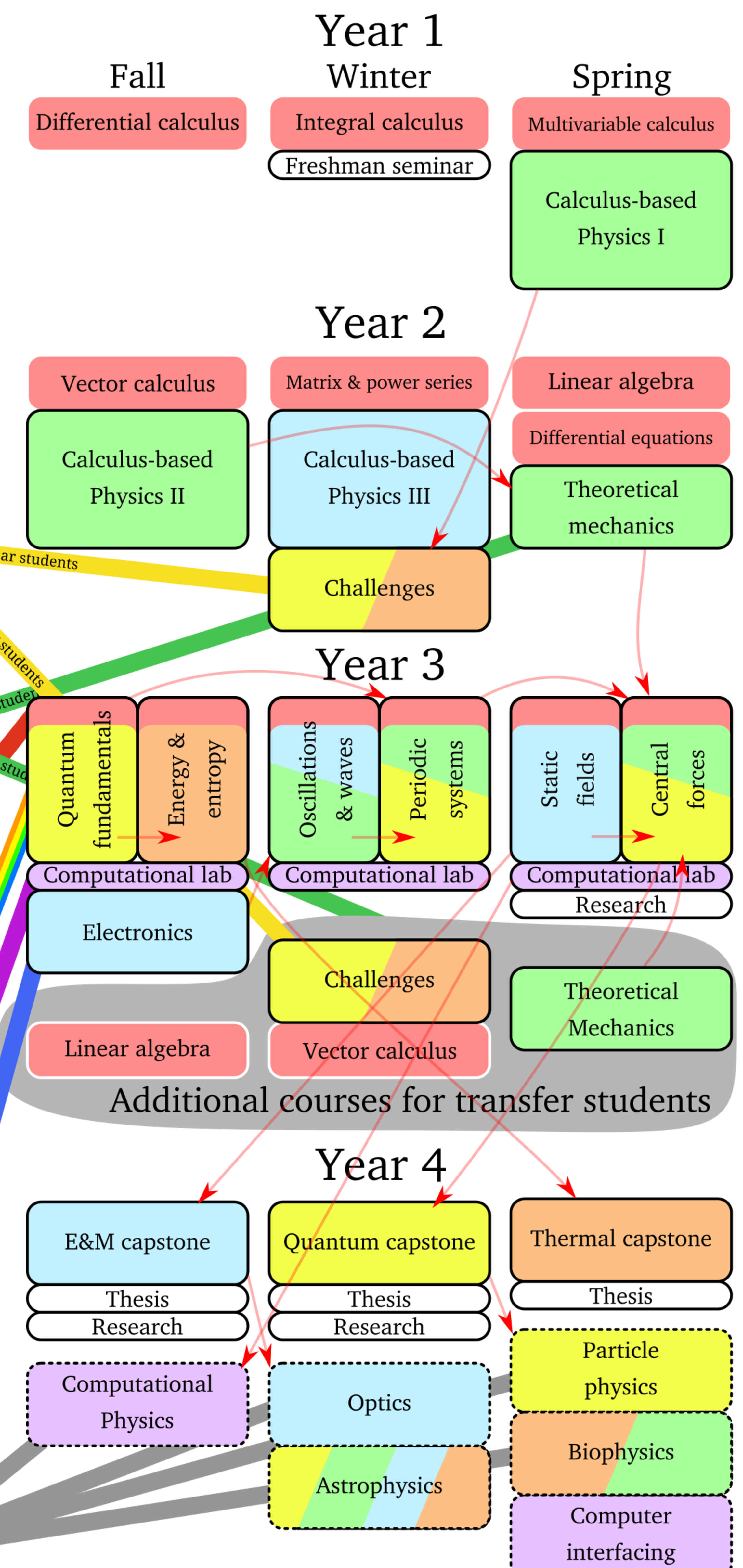
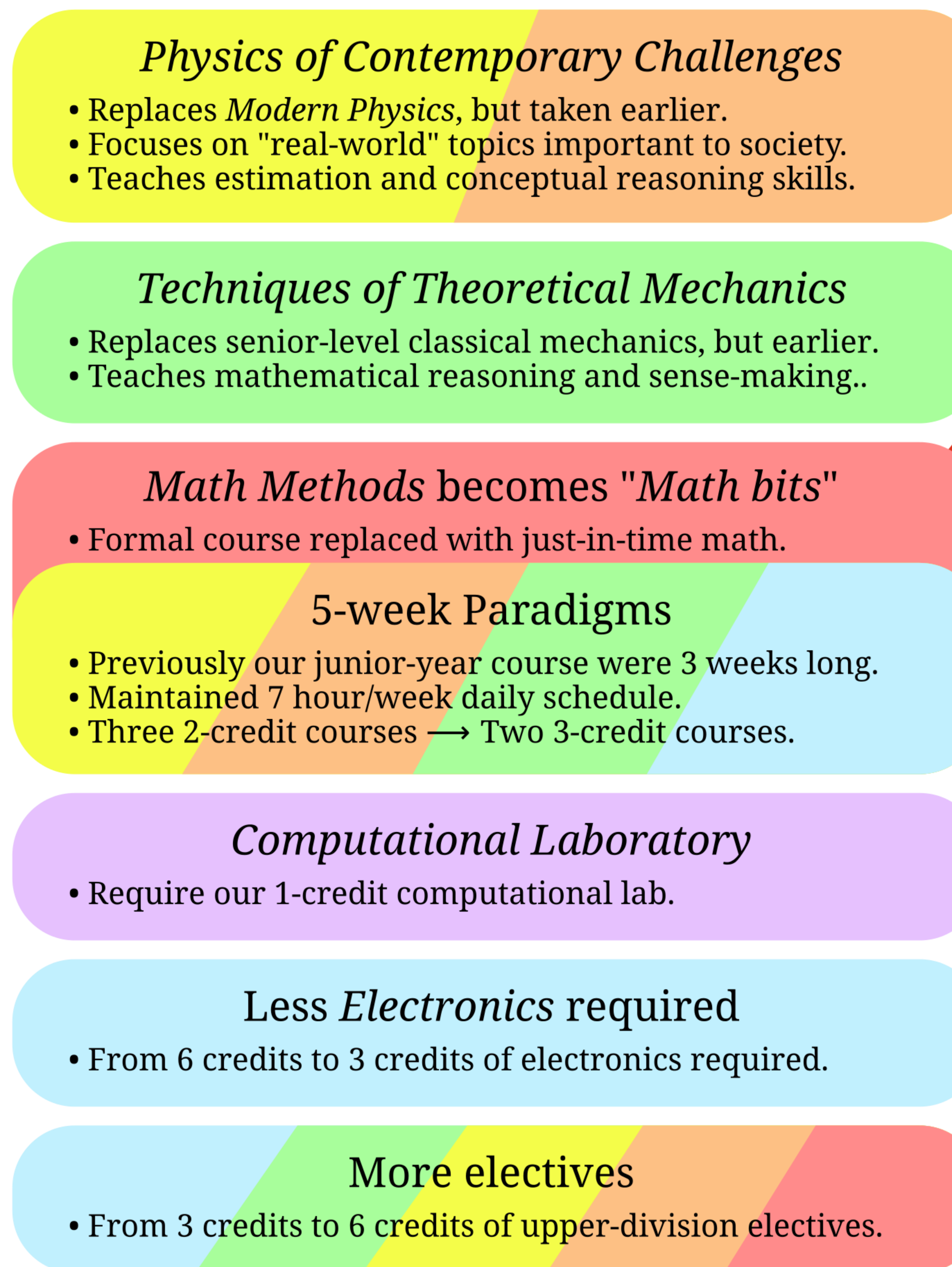


*transforming the Physics major... again!*  
David Roundy Elizabeth Gire Ethan Minot  
Emily van Zee Corinne A. Manogue



**Changes made**



Research question:  
Why reform the Paradigms?!

Research question:  
How to develop consensus?!

**Institutional change research**

- Emily van Zee has been studying the change process

<http://physics.oregonstate.edu/portfolioswiki/toolkit:start>



**Community college transfer students**

- Behind by a few courses when transferring.
- Must be able to finish Physics major in two years.
- Want to reduce extra courseload Fall of junior year.

**4-year students**

- Challenging transition to upper-division in junior year.

**Coupled curricular changes**

- Changes in major that could not be made in isolation.

**New faculty**

- The Paradigms' success came from faculty buy-in.
- Newer faculty lack an understanding of the curriculum.

**Paradigms 2.0 process**

**Information gathering**

- Survey of faculty and students.
- Interviews of faculty teaching existing courses.
- Index cards describing concepts and subjects taught.

**Card sorting**

- Established dependency relationships between cards
- Sorted concepts and subjects into courses
- This resulted in a proposal for a revised set of courses.

**Discussion with faculty**

- One-on-one meetings with faculty presenting courses.
- This resulted in several revisions.
- One faculty meeting to present final proposal.
- Hallway discussions over one week.
- Faculty meeting to discuss and vote on the proposal.
- Consensus!

