

Motivation, self-efficacy, and student engagement in intermediate mechanical engineering courses

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- We measured student's motivation, self-efficacy (MSLQ), and engagement in three courses simultaneously.
- **Attitudes** vary considerably from course to course for a given student, while **learning behaviors and outcomes** are largely consistent.
- **Self-efficacy** is not correlated between courses, even though final grades and engagement are strongly correlated.

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