Beyond Content: Evaluating Effects of Curricular Change
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Tools to measure selected non-cognitive outcomes in programs and curricula

1. Burnout

2. Satisfaction with life scale (SWLS)

3. Academic Motivation Scale


4. Empathy

5. Implicit bias

6. Emotional competency

7. Scientific Literacy Skills (TOSLS)

8. Science Motivation Questionnaire (SMQ)

Construct validation with non-science majors

9. **Sense of Belonging Instrument (SOBI)**
The SOBI is a 27 item self-reporting instrument of a scored subscale that assesses the dimensions of fit and valued involvement.

10. **Self-Efficacy to Learn Statistics (SELS)**
This instrument measures whether statistics self-efficacy is related to statistics performance
[http://dx.doi.org/10.1016/S0361-476X(02)00015-2](http://dx.doi.org/10.1016/S0361-476X(02)00015-2)

11. **Motivated Strategies for Learning Questionnaire (MSLQ)**
A Likert-scaled instrument to assess motivation and use of learning strategies by college students.

**Other outcomes of interest:** Team dynamics, Self-awareness/Accuracy in self-monitoring, Professionalism, Cultural competency, Social competency

**Resources for further exploration**
1. AAMC, includes tools for learning climate, experiences and future plans
   [https://www.aamc.org/data/datapubs/277862/questionnaires.html](https://www.aamc.org/data/datapubs/277862/questionnaires.html)

2. ASBMB lists a variety assessment tools for class experiences and attitudes
   [https://www.asbmb.org/education/teachingstrategies/conceptinventory/](https://www.asbmb.org/education/teachingstrategies/conceptinventory/)

   [http://dx.doi.org/10.3109/0142159X.2013.828153](http://dx.doi.org/10.3109/0142159X.2013.828153)

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