Evaluate Sessions and Win!

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The development of new learner-centered MOOC tools for public engagement

Loizzo, Morrisey, PytlikZillig, Soh, Colgrove, & Svoboda, 2019
WHY MOOCocracy

We embrace all types of adult learners in a truly open MOOCocracy where learners set their own goal, evaluate their attitudes, and mobilize to create projects building a community knowledge base.

OUR GOALS

1. Advance democratic approaches to the resolution of complex social problems such as food insecurity, energy use, water quality, and sustainability.

2. Advance the theories of informal online learning and knowledge-sharing, attitudes and attitude change, citizen engagement and mobilization, and computer science and learning technology design.

Why? : Our premise
Learner-Centered Dashboards
Set goals, flag interesting material and track your facilitators’ presence.

Discussion Board
Share and organize posts based on user attitudes and view fellow learners’ perspectives.

Community Knowledge Spaces
Post, share and view learner-generated multimedia projects.

What? 3 LTIs
Learner-Centered Dashboard

Facilitator presence
Personal reflection
Social presence
Goal-setting
Attitude-Focused Discussion Board

- Level of agreement
- Level of confidence
- Posts, replies, resources

Discussion Statement:
If people are on food stamps, they shouldn’t go to farmer’s markets.

https://videopress.com/v/B8h8qqWv
I definitely agree that expanding free and reduced lunch programs to food insecure students is one opportunity to address food insecurity amongst children. I appreciate the others who have commented about how expanding access to this program reduces stigma for the students. I also think that another benefit of expanding the program means that children aren’t just getting access to meals, but to meals that are regulated to be healthy.

Expanding access to free and reduced lunch has impacts not just for the child, but for the parent in the home as well. Knowing that at least one meal is covered frees up income to be able to purchase other groceries for non-covered meals, or to pay other bills. It gives parents a little bit of financial breathing room and is one less meal they need to stress about. In that sense, I think this approach has impacts that reach beyond the classroom.
Attitude-Focused Discussion Board

Responses Graph

Graph Display Options
OVERLAY GROUPED

Each dot is an individual student’s response to the question above. Responses are grouped as a histogram to identify response counts.

Responses Graph

Graph Display Options
OVERLAY GROUPED

Each dot is an individual student’s response to the question above. The smaller the dot, the more confident the student is about their answer.
Community Knowledge Base

Share resources
Multimedia library
Share final projects
Sort and search

Recent Community Knowledge Items

- **Importance of hand washing**
  Handwashing is the most effective way to prevent the spread of illness according to the Centers for Disease Control and Prevention. Help promote handwashing at your work or community site with these FREE materials!
  Shared by: Nicholas Cigrove

- **What's on a food label**
  This is a really cool resource. Everyone should check it out.
  Shared by: Nicholas Cigrove

- **Food Insecurity**
  This is a really cool resource. Everyone should check it out.
  Shared by: Nicholas Cigrove

Add resources in the Knowledge Base
Tracking and Modeling Learners

Detailed activity tracking for informing instructor and advanced learner modeling for customization

Tracking learner activities with MOOCocracy

Allowing instructor to monitor group and individual progress and provide timely intervention

Future Work:

Modeling learners based on their behaviors

- To enable researchers to study questions on participation, engagement, and other issues with MOOCocracy
- To allow customized scaffolding to engage and facilitate individual learning
<table>
<thead>
<tr>
<th>LTI Activity Tracking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Activity Tracking</strong></td>
</tr>
</tbody>
</table>

1. Collect activity may refer to both manual data collection, such as paper surveys, and automatic data collection, such as data from biometric sensors. The data collected can include physical activity, sleep patterns, and other health-related metrics.

2. Most people participate in activities that improve their health, with a focus on maintaining a healthy lifestyle. However, some activities, such as those that involve extreme sports or high-intensity training, may not be suitable for everyone.

3. Collect data can be used to inform public health policies and inform individuals about their health status and behaviors. The data can also be used to create custom health plans and recommendations.

4. The data can be shared with other stakeholders, such as employers, insurance providers, and researchers, to inform decisions and improve health outcomes.

5. Collect data can be used to inform individuals about their health status and behaviors. The data can also be used to create custom health plans and recommendations.

6. Collect data can be used to inform public health policies and inform individuals about their health status and behaviors. The data can also be used to create custom health plans and recommendations.

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LTI Activity Review
Type of Activity Tracked

Analytics
- Lurking activities
- Page visits, bookmarking, favoriting, filtering data, viewing, expanding content

Quantitative Responses
- Self reporting attitude to a discussion question or reflection statement
- Measured via a range and slide bar

Response Changes
- Attitude changes
- Result of multiple quantitative responses

Discussion Texts
- Qualitative Values
- Discussion posts, post responses
Food Insecurity IDEA

In the discussion boards, there were an average of 25-30 responses to each statement. Participants made contributions that added more information to the course content. Participants were from all over the United States and were encouraged to share experiences with food insecurity in their individual communities.

Looking at this statement, I agree that it may be temporary, or at least we hope it is, but we need to think not just about the fact that they are hungry, but how that affects their ability to succeed in school. When someone is hungry, it affects their ability to concentrate and affect their moods. Compound that with the fact that many students not only go to school, but also work, we have a situation that could cause many to drop out, which leads to more problems. It seems that many assumptions are made about how well students going to college must get along, but many don’t realize how much it costs to get into college and stay there. Between tuition, additional fees, cost of supplies and books, along with the costs of supporting yourself in some cases, college is more expensive than many may realize.


https://www.apnews.com/02200d895a4f946158451806cfbe732
<table>
<thead>
<tr>
<th>Discussion topic</th>
<th>Agreement (-100 to 100)</th>
<th>Confidence (1 to 25)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free and reduced lunch programs should be expanded to provide support to a greater number of food insecure children.</td>
<td>59.5 (-40 to 100)</td>
<td>8.5 (1 to 25)</td>
</tr>
<tr>
<td>College students may not be as well off as older adults, but their food insecurity is temporary so we should put our efforts elsewhere.</td>
<td>39.4 (-100 to 76)</td>
<td>7.9 (1 to 25)</td>
</tr>
<tr>
<td>Most people could afford a lot more and healthier food with less money, if they were willing to put in some effort to learn about healthy choices, and spend time cooking</td>
<td>5.6 (-79 to 100)</td>
<td>7.3 (1 to 25)</td>
</tr>
<tr>
<td>County governments, schools, and food pantries should work together to support Community Gardens and grow free or very low-cost produce for food insecure families.</td>
<td>51.5 (0 to 100)</td>
<td>5.9 (1 to 18)</td>
</tr>
<tr>
<td>We should prioritize feeding our veterans who are hungry before feeding our hungry refugee and immigrant populations.</td>
<td>-36.8 (-100 to 35)</td>
<td>11.5 (1 to 25)</td>
</tr>
<tr>
<td>We need more policies and assistances that help people in poverty gain education and training. Such policies would result in higher paying jobs and reduce generational poverty.</td>
<td>42.3 (-9 to 100)</td>
<td>5.2 (1 to 14)</td>
</tr>
</tbody>
</table>
Qualitative Analysis: Interview Themes

1. Learners’ personal and professional contexts affect/impacts on participation and experiences with the MOOCocracy.

2. The value/importance of a shared online collaborative space for engagement and resource sharing.

3. A humbling expansion of understanding of and views on food insecurity.

4. The MOOCocracy participation process.
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