Online Math Tutoring

ACADEMIC AND INSTRUCTIONAL SERVICES, UTAH STATE UNIVERSITY

Project: Create an online tutoring system to allow tutors and students to connect virtually.
Outcome: A flexible system that allows tutors and students to connect virtually through the LMS.

OVERVIEW AND TOOLS USED

A virtual tutoring system was created that integrates with the LMS.

Academic and Instructional Services along with the Department of Math and Statistics worked together to design and build an online math tutoring system to allow students and math tutors to connect in a virtual environment. The system uses the LMS as the hub, allowing students to request tutoring help right in the math course they are currently taking. Tutors have their own LMS course section and can set-up daily office hours, and then easily launch sessions to connect with students. Several readily available tools were used to create the system. Integration was achieved by using LTI. The system went live in October of 2019 and the math department will expand it to more classes in the Spring.

Three different types of tutoring sessions that can be set-up.

1. Scheduled
   Student choose from a calendar of available times to schedule their one-on-one tutoring session. Student receives email instructions/reminder and can opt in to receive an SMS reminder.

2. Drop-in Cue
   Students can request tutoring through the drop-in cue. They wait their turn in line until a tutor is available.

3. Open Session
   Open sessions allow multiple students to join a tutoring session at the same time. A tutor may open this up for a review session before an upcoming quiz.

Tools that were used to create the virtual tutoring environment.

<table>
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<tr>
<th>Category</th>
<th>Tool Used</th>
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</thead>
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<tr>
<td>LMS</td>
<td>Instructure Canvas</td>
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<tr>
<td>Whiteboard</td>
<td>TogetherJS library</td>
</tr>
<tr>
<td>Web Conferencing</td>
<td>Cisco WebEx</td>
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<tr>
<td>Integration</td>
<td>LTI and api’s Custom PHP code</td>
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