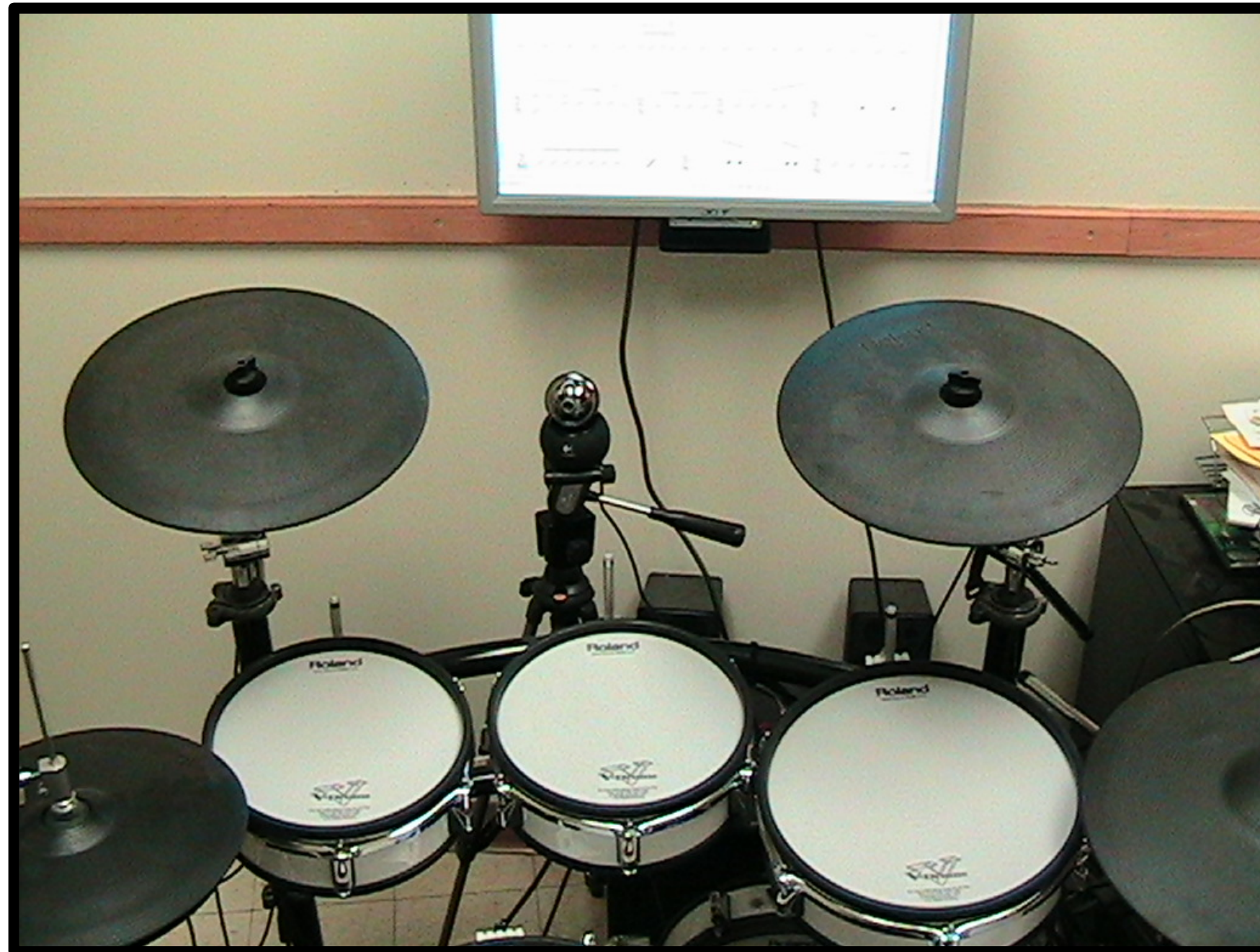


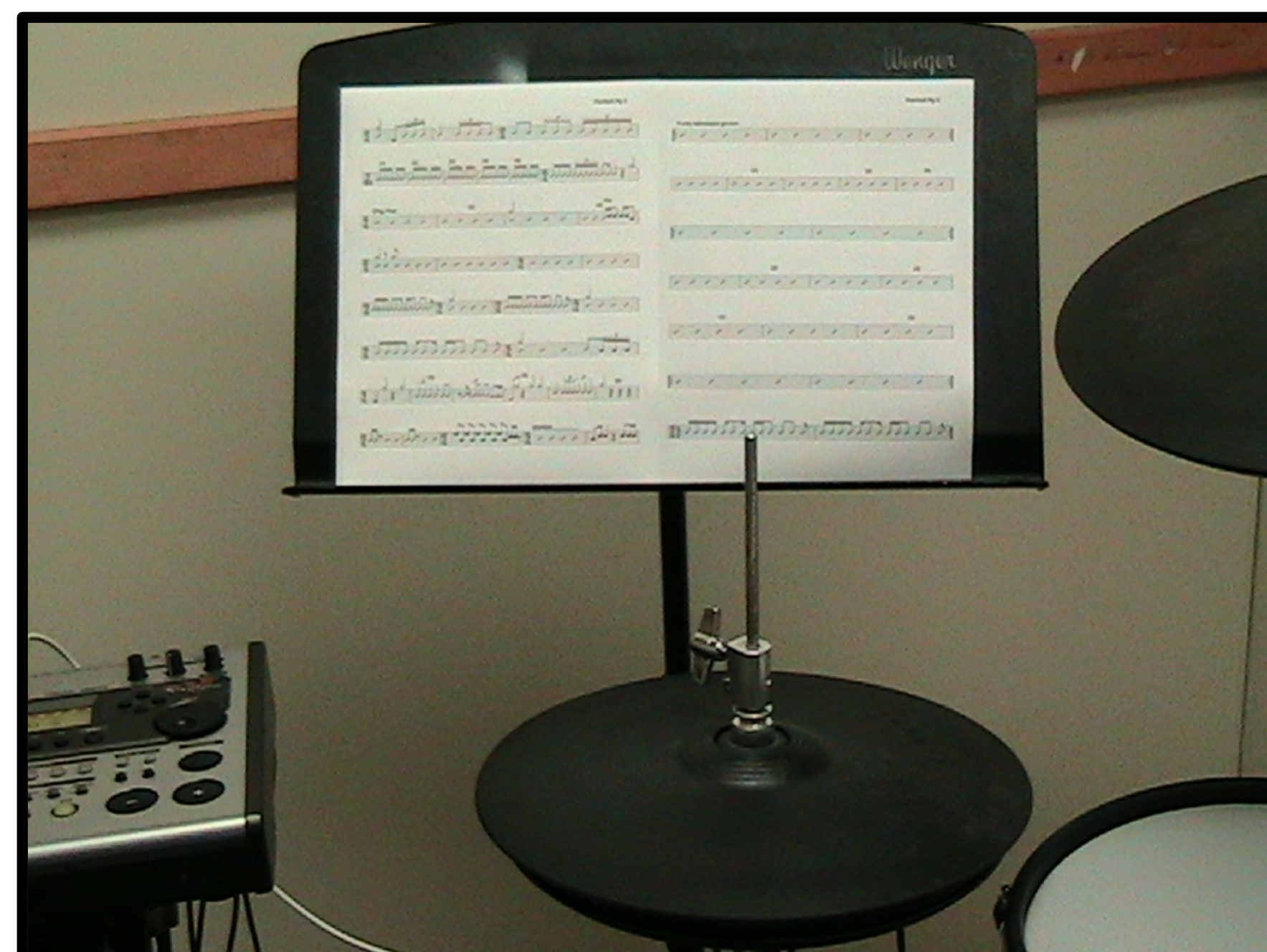
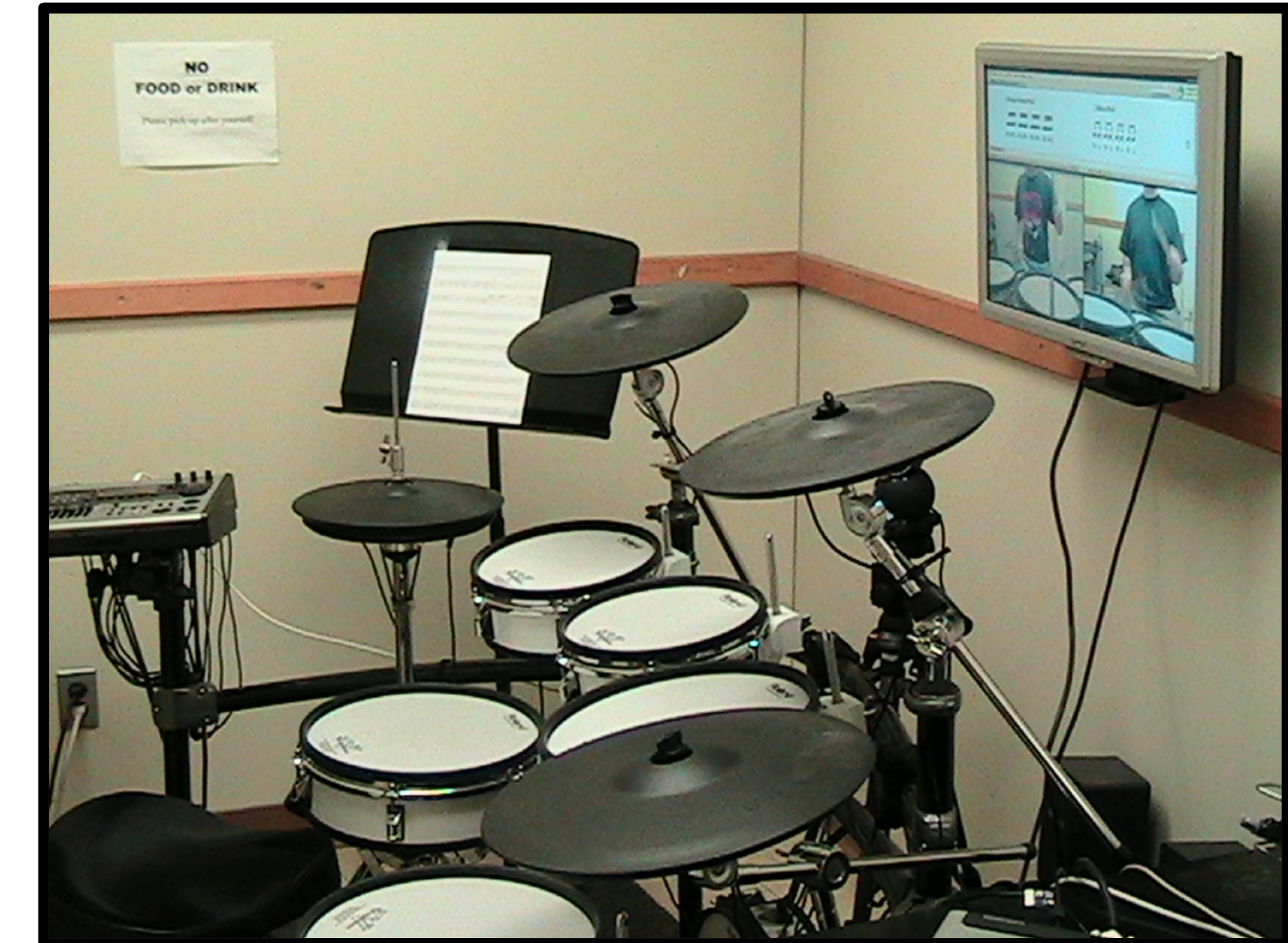
# Creating An Enhanced Learning Studio For Instrumental Instruction

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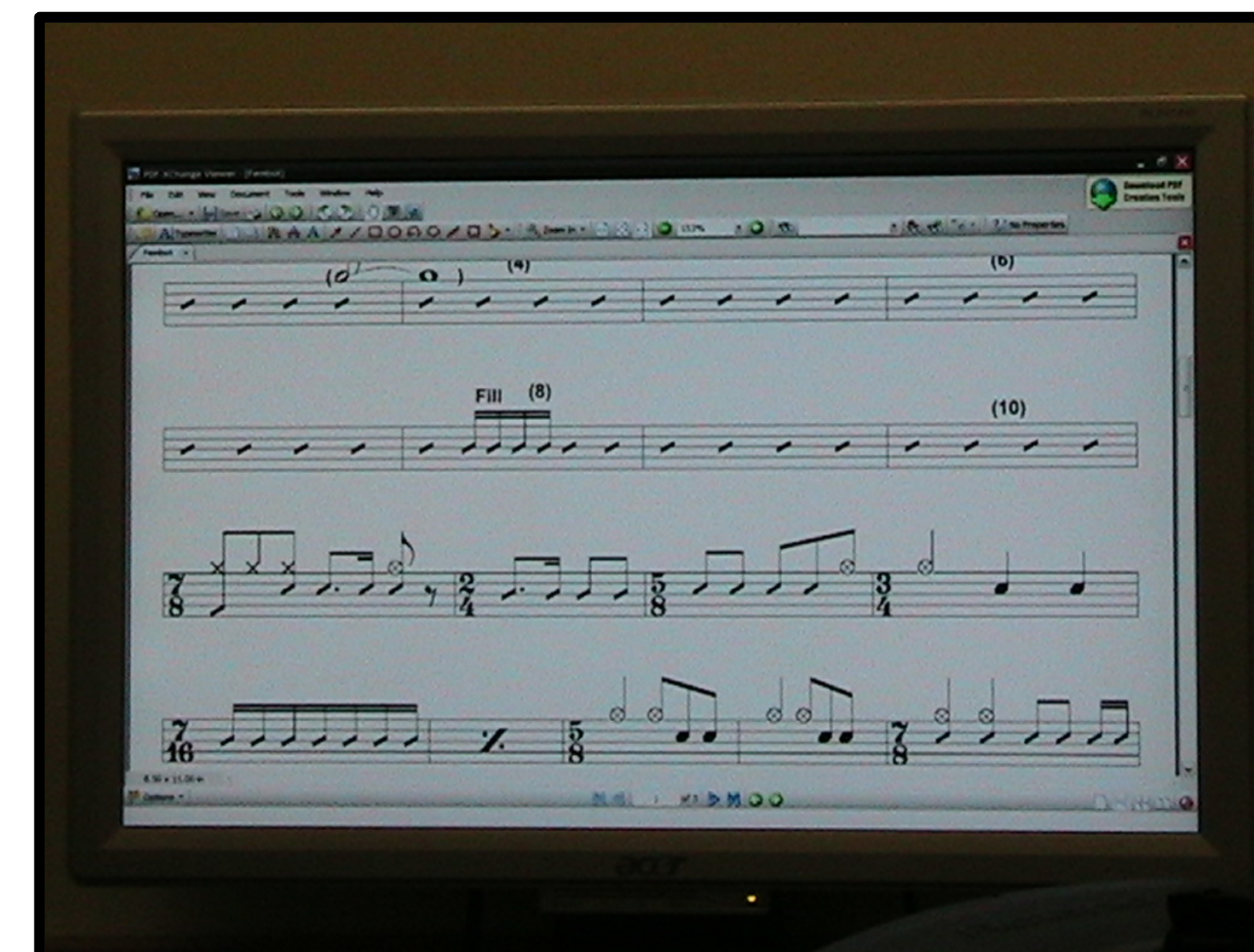
The Enhanced Learning Studio (ELS) project was started in the summer/fall of 2008 with a grant from the SUNY Oneonta Teaching, Learning and Technology Center.

The ELS offers music students a more focused and efficient learning environment that allows them to achieve a better understanding of fundamental instrument techniques through the use of multimedia technology. The ELS provides the ability to record audio and video of key elements of each lesson with the individual student. This enables the instructor to provide exact information about the students' playing in an easily reviewable way and help ensure effective use of practice time.



Understanding this new approach requires some knowledge of the shortcomings of traditional practices. Normally, a student attends a lesson and is presented with written materials, physical demonstrations and verbal explanations by the instructor. The student is given as much guidance in the execution of the material as time allows and is then expected to practice over the ensuing week and come to the next lesson to receive feedback and correction on their progress.

During the week of practice the students are left on their own with only notes and memory to guide them through often very complex and precise movements.



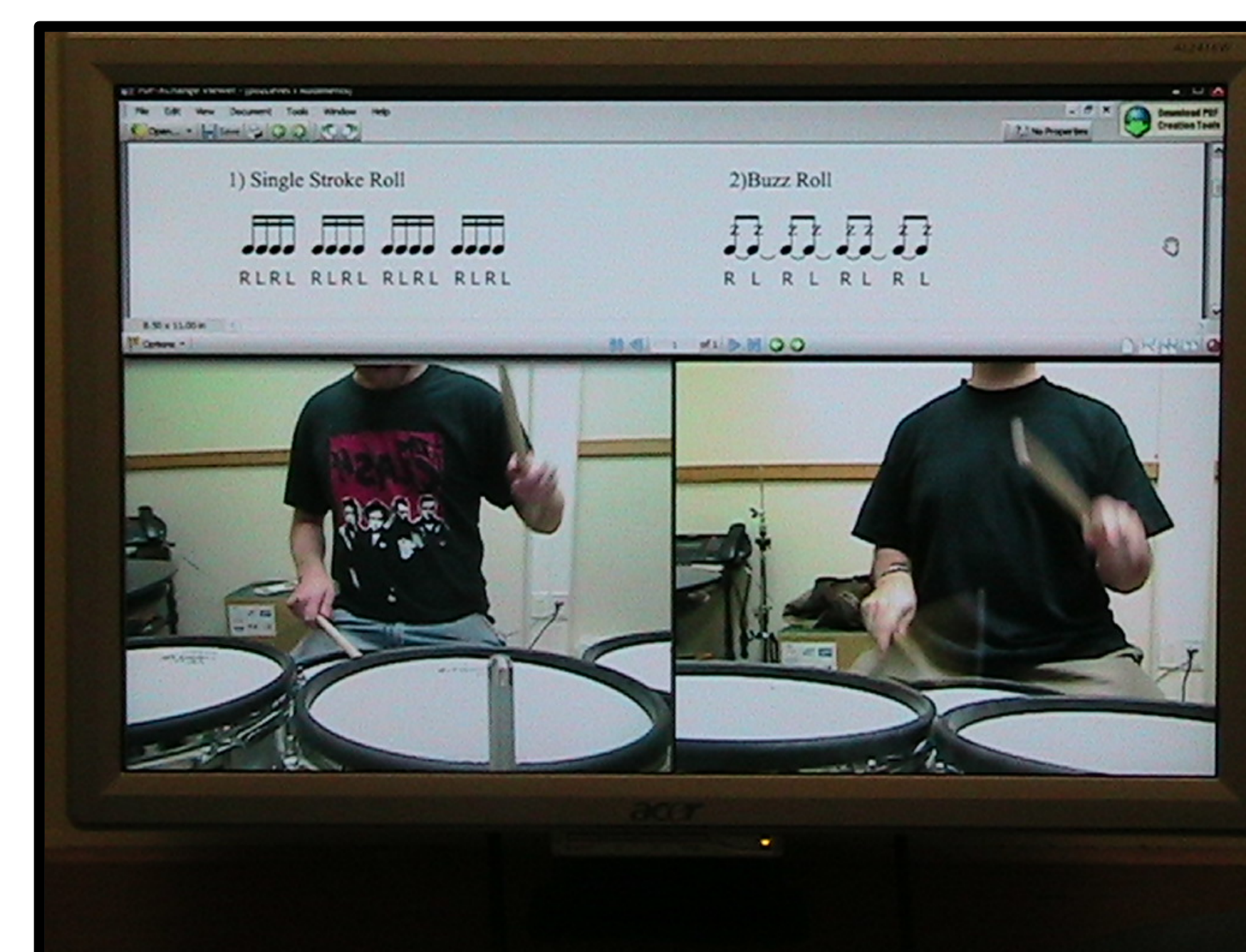
With the central LCD monitor the instructor can display any exercise on screen, via notation software. This allows the music to be displayed in a larger, easier to read format and places it in a more ergonomic reading position.

A cursor may be used to help the reader keep their place in the piece as they read. This has proved to be an extremely effective way to improve focus and reading discipline during lessons. This can also be recorded for later review by the student.



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By equipping the studio with several cameras connected to a computer and large LCD monitor positioned directly in front of the drums, the instructor has the ability to display a live image of exactly the movement that needs to be seen as well as the student's movement in comparison.



The monitor allows the instructor to display a wide variety of information and customize the display as needed for each student. This in turn has improved overall student attention and focus during lessons.

In addition this also provides the instructor with a clear record of a student's progress from week to week, and the ability to create personalized work-out videos which would focus on more long-term goals, extending past the scope of one semester.