

Video Self-Check Quizzes for Asynchronous Learners


Dr. Joseph Ross
jross@csufresno.edu
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In my Canvas course, each topic (Chapter) is contained on its own page. Below is a screen shot from the topic of "Mutation." I teach this course in a blended learning fashion, so each class meeting (like for September 13, shown below) has at least one video for students to watch before class. During class, we use active learning to reinforce topics first encountered in the lecture videos.


To improve on QLT rubric objective 2.5, I created one short self-check multiple-choice Canvas quiz for each of the 41 videos in this course. The link to each ungraded quiz immediately follows the link to each video, as shown below.

5. Mutation 9/13-15

September 13


 Before class

 Read

[5 Mutation.pdf](#) 


Optional Readings (if you want more resources):

[OpenStax Biology 14.6: DNA Repair](#)

 Watch

[Mutations](#) (8:18)

Optional: [self-check](#)

 Complete and Submit

[Exercise 5.3](#) (5 points, due 9/16)

Below is a screenshot of this example ungraded multiple-choice quiz, which interrogates a key concept from the video.

Quiz Instructions

Please use this one-question quiz (ungraded) to check your knowledge for the video you just watched.

Question 1 0 pts

Which sequence contains a microsatellite?

- ATCTACTAGAT
- ATCGCGCGGAT
- ATCGATACGAT
- ATCTACGTGAT

I used the ability in Canvas to provide descriptions of the correct and incorrect responses, to provide on-demand feedback for asynchronous video use. This approach addresses QLT objective 2.5, “Throughout the semester, instructor provides multiple opportunities to give feedback on students learning and to help students ‘self-check’ their learning.”

Question 1 0 / 0 pts

Which sequence contains a microsatellite?

- ATCTACTAGAT
- ATCGCGCGGAT
- ATCGATACGAT
- ATCTACGTGAT

Correct Answer →

You Answered →

This sequence does not have any repeated nucleotides, so it does not contain a microsatellite