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## Nonlinear Dynamics: Mathematical and Computational Approaches

Lead instructor: [Liz Bradley](#)

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Quiz scores are NOT recorded.

- You may come back to quizzes and take them as many times as you like
- When you are finished, clicking the "Score" button at the bottom of the test will show you the correct responses.

### Question 1

How many unstable periodic orbits (UPOs) are there in the dynamical landscape of a dissipative chaotic system?

- ☐ A. None
- ✓ ☒ B. An infinite number
- ☐ C. It depends on which chaotic system you're talking about

### Question 2

All UPOs have even-numbered periods [2, 4, 6, ...]

- ☐ A. True
- ✓ ☒ B. False

### Question 3

Which of the following statements are true about the relationship between UPOs and chaotic attractors?

- ☐ A. A chaotic attractor is the closure of the set of its UPOs
- ☐ B. UPOs are dense in any chaotic attractor
- ✓ ☒ C. Both of the above
- ☐ D. Neither of the above

You got 3 out of 3 questions correct

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