Combining Full-State Feedback with an Observer

- ▶ So far, we have focused on autonomous systems (u = 0).
- ▶ What about nonzero inputs?

$$\dot{x} = Ax + Bu$$
$$y = Cx$$

assume (A, B) is controllable and (A, C) is observable.
In the next lecture, we will learn how to use an observer together with estimated state feedback to (approximately) place closed-loop poles.

