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for analyzing a digital control system. As shown in Figure L.1, the z-transform enables the engineer to combine a continuous process and digital controller into one transfer function model. As with continuous systems, we can use the transfer function model to determine important properties of the system, such as its stability,

## **Analysis of Digital Control Systems**

This class will provide a comprehensive treatment of the analysis and design of discrete-time control systems. The course will build upon the student's knowledge of classical control theory and extend that knowledge to the discrete-time domain. This course is highly relevant to aspiring control systems and robotics engineers since most control system designs are implemented in

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The chapter on control design in the frequency domain (Chapter 8) is, in my opinion, far the worse because it is, in fact, a chapter on CONTINUOUS control design (use of bilinear transformation from  $z$  to  $w$  and design in  $w$ ).

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