Department of Electrical Engineering

EENG 5310 Control Systems Design
Fall 2016
12:30-13:50, Mo,We, NTDP B227

Course Description
State space representations of linear systems, Linear time-invariant system, system stability, state feedback, state estimation, Transfer function, frequency response and Bode plots, Nquist Criterion, Loop shaping and PID controller

Instructor
Tao Yang, Office: NTRP B230, Tel: 940-891-6876, Email: Tao.Yang@unt.edu
Office Hours: Mo 10:30-12:30

Teaching Assistant
Yunlong Qi, Office: NTRP B209, Email: yunlongqi@my.unt.edu
Office Hours: Tuesday 10:00-12:00.

Textbooks and Resources
http://www.cds.caltech.edu/~murray/amwiki/index.php/Main_Page
Blackboard: Lecture Notes and other supplementary documents are posted.

Acknowledgement: Part of materials are from EE 489 and EE 501 taught by Dr. Sandip Roy at the Washington State University, which is available online, see www.eecs.wsu.edu/~sroy/ee489_lecA.pdf

Grading
Attendance 5%
Homework 35%
One Midterm Exam 25% Oct 10, in class.
Final Exam 35% Dec 14, 10:30 AM-12:30 PM

General Policies
1. You are expected to attend every lecture and responsible for announcements made in lecture, on the
student access website, or via the class email list.

2. Please check the blackboard often as announcements/homework/solutions will be posted there.

3. Homework will NOT be accepted late (except if a formal letter is provided regarding a medical or family emergency), but your lowest homework score will be dropped.

4. Make up exams will be possible only with a doctor’s letter or letter of absence for a school-sponsored event. If you have a serious reason for missing an exam, you must contact me before the scheduled exam period to notify me that you cannot take the exam (again, written documentation is required).

5. Any request for “make-up” tests (midterm or final) will be subjected to university policy.

6. Please drop me an email if you want to ask questions or to make an appointment or other course related questions. The email will be responded within 24 hrs.

7. Please visit http://www.unt.edu/csrr/ for your rights and responsibilities.

8. Students caught cheating, plagiarizing, or any other academic dishonesty will be subject to penalty according to the Policy on Students Standards on Academic Integrity.

9. The University of North Texas complies with Section 504 of the 1973 Rehabilitation Act and with the Americans with Disabilities Act of 1990. The University of North Texas provides academic adjustments and auxiliary aids to individuals with disabilities, as defined under the law. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. It is the responsibility of the student to provide the instructor with appropriate documentation from the Dean of Students Office (see http://www.unt.edu/oda) during the first week of class.

10. This is a tentative version and is subject to changes.