Instructor: Dr. Ali Feliachi  
Office: 247 AERB, Phone: 293-9690,  
E-mail: alfeliachi@mail.wvu.edu  
Office Hours: T, Th: 3:30 – 4:30

Time/Place: T, Th: 2:00-3:15. Room G78A ESB

Prerequisite: Graduate standing or consent

References:  

Objective: To provide an introduction to the deterministic optimal control of dynamical systems.

Topics:  
I. Preview  
II. Dynamic Programming  
III. Maximum Principle of Pontryagin  
IV. Feedback Design for Linear Systems  
V. Linear Robust Control

Grading Policy:  
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<td>Homework:</td>
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<td>Tests:</td>
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<td>Project:</td>
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Tentative Calendar:  
Test#1: March 12, 2020  
Test #2 April 27, 2020  
Presentations & Report due: 4/28-30/2020

Course Policies:  
1. Mix email is the official contact means.  
2. Students should attend all classes, and in case of absences, students are responsible for missed classes and announcements.  
3. There are no make-up exams. All exams will be closed books, but two pages (one sheet) of notes will be allowed.  
4. Programmable calculators are not allowed.  
5. Cell phones are to be turned off all the time.  
6. All problem sets are due at the beginning of class.  
7. A late assignment = no assignment.  
8. Assignments that are obviously copied will receive no credit and are subject to University Academic Dishonesty policies.  
9. Homework and exams should be neat, with all the steps explained. Your answer should be boxed with the units indicated.  
10. No credit will be given for answers without work.
**Inclusivity Statement:** The WVU community is committed to creating and fostering a positive learning and working environment based on open communication, mutual respect, and inclusion. If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, please advise me and make appropriate arrangements with the Office of Disability Services (293-6700). For more information on WVU’s Diversity, Equity, and Inclusion initiatives, please see [http://diversity.wvu.edu](http://diversity.wvu.edu).

**Academic Integrity.** The integrity of the classes offered by any academic institution solidifies the foundation of its mission and cannot be sacrificed to expediency, ignorance, or blatant fraud. Therefore, I will enforce rigorous standards of academic integrity in all aspects and assignments of this course. For the detailed policy of WVU regarding the definitions of acts considered to fall under academic dishonesty and possible ensuing sanctions, please see the Student Conduct Code at [http://www.arc.wvu.edu/admissions/integrity.html](http://www.arc.wvu.edu/admissions/integrity.html). Should you have any questions about possibly improper research citations or references, or any other activity that may be interpreted as an attempt at academic dishonesty, please see me before the assignment is due to discuss the matter.