MATH 307, Linear Algebra, Summer 2020

Class schedule: MTWRF 8:00 am - 9:50 am (web-meeting 6/8-7/10)

CRN: 27131 **Section**: A01

Instructor: Dr. Attila Pór, Office: COHH 3101,

*e-mai*l: attila.por@wku.edu

Office hours: MTWRF: 9:50 am-11:00 am or by appointment.

Topnet and Blackboard will be used to communicate you any information, like exam date and homework.

Prerequisite: MATH 137 with a grade of "C" or better or MATH 136 with a grade of "A" or MATH 142 with a grade of "A" or MATH 136 with a grade of "C" or better and CS 221 with a grade of "C" or better

Textbook: (OPTIONAL). If you need to reed about concepts you can find them in any textbook/web.

Attendance: Throughout the course class attendance is required. Four or more unexcused absences from class may result in an "F" as final course grade. A student absent from class bears full responsibility for subject matter and announcements missed.

Test: There will be 4 Tests Missing an exam is a serious matter, and a make-up exam will be arranged only if

(1) the instructor is informed in **advance**

(2) if valid reason is provided and proved.

Quiz & Homework: There will be regular quiz and homework posted on BB that will contributes to your grade. You will have to turn in the quiz/HW through Blackboard (BB).

Grading:

A: 90% - 100%	D: 60% - 70%
B: 80% - 90%	F: below 60%
C: 70% - 80%	

There will be four mid-term exams, and quiz. Each mid-term test is worth 20% of your grade, quiz are 20% (An average of your quiz score, after dropping the 2 lowest scores).

Description: The focus of this course is on an introduction to the study of systems of linear equations, matrix algebra, vector spaces, inner product spaces, linear transformations, eigenvalue equations, and quadratic forms.

Learning outcomes: Upon completion of Math 307 the student will be able to:

- 1. Solve systems of linear equations.
- 2. Prove theorems about matrices, vector spaces, and inner product spaces.
- 3. Apply matrix methods.
- 4. Explain the relationships among one-to-one, onto, spanning, and linear independence.
- 5. Calculate determinants, matrix inverses, eigenvalues, and eigenvectors of square matrices.

Dates:

- 1. test: Monday, June 15, 9:00 am 10:00 am
- 2. test: Tuesday, June 23, 9:00 am 10:00 am
- 3. test: Wednesday, July 1, 9:00 am 10:00 am
- 4. test: Friday, July 10, 9:00 am 10:00 am

Title IX Misconduct/Assault Statement

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at https://www.wku.edu/policies/docs/182.pdf and Discrimination and Harassment Policy (#0.2040) at https://www.wku.edu/policies/docs/251.pdf.

Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121.

Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are "Responsible Employees" of the University and MUST report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's Counseling and Testing Center at 270-745-3159.

ADA Accommodation Statement:

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu . Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

Notice: Credit for a course in which a grade of F has been received can be earned only by repeating the course in residence unless prior approval is given by the head of the department in which the course was taken.