Course Syllabus Jason DeMoulpied

✎ Edit

First, go to the Home (https://colostate.instructure.com/courses/207798) page to read the welcoming introduction to the course.

Then, come back and study this Syllabus (https://colostate.instructure.com/courses/207798/assignments/syllabus) .

After reading this Syllabus (https://colostate.instructure.com/courses/207798/assignments/syllabus) , which appears below, scroll way down below TO THE BOTTOM to see the Course Summary. This Course Summary, located way down at the end of this Syllabus, is VERY helpful to keep track of the deadlines of all the different lectures, assignments, and exams of the course.

To keep track of all the course deadlines, you can also go to the green vertical bar on the left side in Canvas, and click on the Calendar page. There you add the Canvas courses that you want to your calendar, and on the bottom right you can click on a link that will allow you to load all the dates into your phone's or computer's calendar. This is very useful so that you have all the due dates at your fingertips and don't forget anything. Note that all dates and deadlines are subject to change.

After reading the Syllabus and taking a glance at the Course Summary at the bottom, you should read and study each and every section of the Course formation (https://colostate.instructure.com/courses/207798/modules/1134694) in the Modules section of Canvas.

Finally, proceed to Modules (https://colostate.instructure.com/courses/207798/modules) to see the course content. Note that the course content is subject to change.

MATH 369 LINEAR ALGEBRA I -- ONLINE VERSION

INSTRUCTOR INFORMATION

Course Instructor: Jason DeMoulpied, PhD, Assistant Professor

Email: Jason.DeMoulpied@colostate.edu

Please feel free to email me if you have any questions or comments about the course or about the material of the course.

This course was designed by others, and even though I'm teaching the course independently, I have chosen to teach the course the way it was already planned to be given. If you have any questions, thoughts, or comments about the course design or materials, please email me. I prefer that you email me directly using your CSU email account, rather than using Canvas messaging.

PREREQUISITES AND CREDIT FOR COURSE

This is a 3-credit undergraduate college course.

The prerequisite course is: Math 161 (Calculus for Physical Scientists II), OR Math 255 (Calculus for Biological Scientists II), OR Math 271 (Applied Mathematics for Chemists I), or their equivalents.

Note that credit is not allowed at CSU for both MATH 369 and DSCI 369.

COURSE DESCRIPTION & OBJECTIVES

This course includes instruction on linear systems, matrices, subspaces of Euclidean spaces, linear transformations on Euclidean spaces, eigenvalues, and eigenvectors.

Upon the completion of this course, you should be able to:

- add and multiply matrices, and determine the inverse of a matrix if it exists.

- solve linear systems via row-reduction.

- define vector spaces, and subspaces and compute bases (and change of bases) for these, and

  decompose a vector space into a direct sum of complementary spaces.

- compute bases for the four fundamental subspaces for a matrix and characterize their geometric

relationships.

• employ the concept of orthogonality and orthogonal projections.

• solve via approximation the solution to overdetermined linear systems.

• compute the determinant as well as eigenvalues and eigenvectors of a square matrix, and use

these eigenvectors to diagonalize matrices.

• define a linear transformation, represent a linear transform as a matrix, and determine if a linear

transformation is an isomorphism.

• apply the singular value decomposition for the computation of the fundamental subspaces and

the pseudo-inverse.

TEXTBOOK / COURSE READINGS

The text for the course is **Linear Algebra for Data Science Notes**
(https://colostate.instructure.com/courses/207798/files/36358360?
verifier=Arcqp5YZlIJ4B3QLv6g6mpBUtFxX3wzBlxUukI8P&wrap=1) by CSU Prof. Michael Kirby, which is
available here in Canvas as a pdf, at no cost to you.

COURSE STRUCTURE

- The course consists of 15 learning modules, with one module to be completed each week, skipping
  the November 23-27 Fall Break week.
- Course lessons will be provided by means of Lecture Videos presented in the Modules of Canvas.
  The lecture videos were prepared previously by Dr. Michael Kirby, professor at CSU, and I thank him
  for letting me use them here.
- The course textbook will be the online linear algebra textbook written by Dr. Michael Kirby, called
  Linear Algebra for Data Science Notes
  (https://colostate.instructure.com/courses/207798/files/36358360?
  verifier=Arcqp5YZlIJ4B3QLv6g6mpBUtFxX3wzBlxUukI8P&wrap=1) . You may download it for free by
  clicking on the link.
- The graded homework will consist primarily of 14 problem sets that are due approximately every
  week, usually on Sunday nights at 11:59 PM Colorado time. On exam weeks, the problem sets will

be due on Thursday nights instead.

- The fourteen 25-point homework problem sets will be graded as follows: Five of the assigned problems will be chosen by the instructor for grading based on correctness, and the rest will be graded on completion

- The fourteen problem sets will be worth 40% of your grade in the course.

- You will need to be able to use a specialized program to capture images of your written work and convert them into a professional, office-quality pdf file. Mere pictures are hard to read and are unacceptable in this course. I prefer Microsoft Lens App. Read the details in the **Course Information (https://colostate.instructure.com/courses/207798/modules/1134694)** module.

- Extra help in this course will be offered during my office hours which will be held through Microsoft Teams. Read the details in the **Course Information (https://colostate.instructure.com/courses/207798/modules/1134694)** module.

- There will also be three Midterm Exams and one Cumulative Final Exam in this course, each one worth 15% of your grade, so that means all the exams taken together are worth 60% of your grade.

- The exams will be proctored using LockDown Browser, which requires that you use a laptop or desktop computer equipped with a camera. The LockDown Browser system will record a video of you as you take the exam--if you chose to take this course it means you agree to that and to the other LockDown Browser restrictions and requirements. You will have approximately a 48 hour window in which to take each exam, and each exam will have a time limit to complete it of between 90 minutes and three hours, depending on the content of that particular exam.

- Students needing academic accommodations are encouraged to sign up and to be evaluated by the SDC- Student Disability Center. They may issue recommendations in your case that will give you extra help in meeting deadlines, finishing exams, etc. depending on your particular needs. **If this applies to you, do this RIGHT AWAY because in the beginning of the semester there are a lot of students applying for this--you want to get in line for your evaluation as soon as you can.**

PARTICIPATION/BEHAVIORAL EXPECTATIONS

This is a rigorous course that has a lot of important concepts and details presented, so it takes a considerable amount of time and lots of practice problems to learn. It's a fast-paced class that will take you from elementary to more advanced material relatively quickly. Plan on working at least 2-3 hours each day to listen to the lecture videos, read the textbook, practice the exercises, complete the homework sets, and to study for the exams.

I recommend that you begin the course by creating a fixed weekly schedule for yourself in your phone's calendar in which you set aside quiet time for yourself during which you'll have uninterrupted time for study. This will help you to learn the material well and to be successful in the course.

Please review the **core rules of netiquette (https://tilt.colostate.edu/TipsAndGuides/Tip/128)** for some guidelines and expectations on how to behave in an online learning environment.

GRADING POLICY

The course will be graded according to the following grading scheme:

Letter Grade Ranges

Grade:	Score Range:	
A+	100 %	to 96.67%
A	< 96.67 %	to 93.33%
A-	< 93.33 %	to 90.0%
B+	< 90.0 %	to 86.67%
B	< 86.67 %	to 83.33%
B-	< 83.33 %	to 80.0%
C+	< 80.0 %	to 76.67%
C	< 76.67 %	to 70.0%
D	< 70.0 %	to 60.0%
F	< 60.0 %	to 0.0%

All the homework assignments taken together will be worth 40% of your grade, and the four exams taken together will be worth 60% of your grade.

KEEPING COPIES OF YOUR WORK

Just in case, it is a requirement of the course that you preserve a copy of all work that you create for the course, including work submitted through Canvas or Gradescope. Errors in data entry can occur, and your data could be wiped out suddenly with no way for me to retrieve it. To the extent that it is possible, it is your responsibility to keep copies of everything submitted in the course, just in case something happens to your data stored in the Canvas website.

DEADLINES AND EXCUSES

It is my goal that you learn the content in this class. However, there are strict deadlines in this class for the submission of the homework problem sets, and for taking the four examinations. Excuses must meet the University requirements, although other exceptional sudden unanticipated events or occurrences might also be considered. Please email me at the FIRST MOMENT that you suspect you might miss a future deadline, and provide a detailed explanation including attaching any written evidence

that you can provide. Deadline exceptions will be made only in exceptional circumstances, such as sudden emergency medical conditions, university team or sports functions covered by university policies, death of a loved one, etc. Individual or family vacations or events will not be considered as excusable reasons to meet a deadline, If you have plans to attend a special event or go on vacation, you have the option to study the material and to submit the assignment in advance.

CANVAS INFORMATION & TECHNICAL SUPPORT

Canvas is the location where course content, grades, and communication will reside for this course.

Information on how to use Canvas is located to your left in the green bar. Just click on the Question Mark symbol, and you'll find a lot of information on how to best take advantage of all the Canvas features.

It really helps to review all the orientation information available at **CSU Canvas Student Orientation Webpage** ⤷ **(https://canvas.colostate.edu/students/)** . Another alternative is to go to **canvas.colostate.edu/support** ⤷ **(https://canvas.colostate.edu/support/)** .

For passwords or any other computer-related technical support, contact the **Central IT Technical Support Help Desk,** ⤷ **(http://lib.colostate.edu/services/computers/technical-support-helpdesk)** try emailing **help@colostate.edu (mailto:help@colostate.edu)** , or call (970) 491-7276.

The **Technical Requirements** ⤷ **(https://www.online.colostate.edu/current-students/technical-support-and-requirements/)** page identifies the browsers, operating systems, and plugins that work best with Canvas.

ACADEMIC INTEGRITY & CSU HONOR PLEDGE

This course will adhere to the CSU **Academic Integrity/Misconduct** ⤷ **(https://catalog.colostate.edu/general-catalog/policies/students-responsibilities/#academic-integrity)** policy a found in the General Catalog and the **Student Conduct Code.** ⤷ **(https://catalog.colostate.edu/general-catalog/academic-standards/academic-policies/)**

Academic integrity lies at the core of our common goal: to create an intellectually honest and rigorous community. Because academic integrity, and the personal and social integrity of which academic integrity is an integral part, is so central to our mission as students, teachers, scholars, and citizens, I will ask that you affirm the CSU Honor Pledge as part of completing your work in this course.

This is the pledge: "I have not given, received, or used any unauthorized assistance in this course."

Any student found submitting work that is not their own or using unauthorized assistance during exams will receive a score of zero on that assignment, and repeat offences will result in a failing grade in the

course.

Use of AI in completing graded assignments will be considered unauthorized assistance. While AI tools can be helpful in learning material, any graded work must be your own.

STUDENT DISABILITY CENTER/ ACCOMMODATION OF SPECIAL NEEDS

Both CSU and your instructor are committed to the principle of universal learning. This means that our classroom, our virtual spaces, our practices, and our interactions be as inclusive as possible. Mutual respect, civility, and the ability to listen and observe others carefully are crucial to universal learning.

If you require academic accommodations in this class, please contact **The Student Disability Center** ⇱ **(https://disabilitycenter.colostate.edu/)** IMMEDIATELY to apply for your evaluation. Once they process your application, they will contact your instructor with a list of suggested accommodations for you, without revealing to your instructor the exact nature of your disability. You may optionally choose to inform your instructor of the nature of your disability, but that is not required and is entirely up to you.

Don't wait because the SDC does their evaluations in order of application, so you want to get your application in as soon as possible.

The Student Disability Center (SDC) has the authority to verify and confirm the eligibility of students with disabilities for the majority of accommodations. While some accommodations may be provided by other departments, a student is not automatically eligible for those accommodations unless their disability can be verified and the need for the accommodation confirmed, either through SDC or through acceptable means defined by the particular department. Faculty and staff may consult with the SDC staff whenever there is doubt as to the appropriateness of an accommodative request by a student with a disability.

The goal of SDC is to normalize disability as part of the culture of diversity at Colorado State University. The characteristic of having a disability simply provides the basis of the support that is available to students. The goal is to ensure students with disabilities have the opportunity to be as successful as they have the capability to be.

Support and services are offered to students with functional limitations due to visual, hearing, learning, or mobility disabilities as well as to students who have specific physical or mental health conditions due to epilepsy, diabetes, asthma, AIDS, psychiatric diagnoses, pregnancy, etc. Students who are temporarily disabled are also eligible for support and assistance.

Any student who is enrolled at CSU, and who self-identifies with SDC as having a disability or a need for a special accommodation, is eligible for support from SDC. Specific accommodations are determined individually for each student and must be supported by appropriate documentation and/or evaluation of needs consistent with a particular type of disability. SDC reserves the right to ask for any appropriate documentation of disability in order to determine a student's eligibility for accommodations as well as in support for specific accommodative requests. The accommodative process begins once a student meets with an accommodation specialist in the SDC, which can be over the internet, not necessarily in person.

Contact **The Student Disability Center** ⤷ **(https://disabilitycenter.colostate.edu/)** for more information, and to request consideration.

THIRD-PARTY TOOLS/PRIVACY

Please note that this course may require you to use third-party tools (tools outside of the Canvas learning management system), such as Microsoft Teams, LockDown Browser, and others. Some of these companies may collect and share information about their users to other parties. Because your privacy is important, you are encouraged to consult the privacy policies for any third-party tools in this course so that you are aware of how your personal information is collected, used and shared.

COPYRIGHTED COURSE MATERIALS

Please do not share material from this course in online, print, or other media. Course material is copyrighted and is the property of the instructor and/or Colorado State University who developed the course. Materials authored by third parties and used in the course are also subject to copyright protections. Posting course materials on external sites or giving access of the materials to another person violates both copyright law and the CSU Student Conduct Code. Students who share course content without the instructor's express permission, including with online sites that post materials to sell or present to other students, could face disciplinary or legal action, and expose themselves to criminal or civil liability.

SUPPORT FOR LEGALLY UNDOCUMENTED STUDENTS

Any CSU student who faces challenges or hardships due to their legal status in the United States and believes that it may impact their academic performance in this course is encouraged to visit **Student Support Services for Undocumented, DACA & ASSET** ⤷ **(https://undocumented.colostate.edu/)** for resources and support. Additionally, only if you feel comfortable, please notify your professor so they may pass along any additional resources they may possess.

FOOD INSECURITY

The following may or may not apply to fully online students, especially if you live away from the CSU Fort Collins campus, but if this situation applies to you, you are welcome to at least inquire to see what services or help may be available to you. Any CSU student (along with faculty and staff) who is experiencing food insecurity can receive support from the **Rams Against Hunger** ⤷

(https://lsc.colostate.edu/slice/slice-engagement/rams-against-hunger/) program. Services include a food pantry, a meal-swipe program, pocket pantries, and in-person assistance with navigating federal aid eligibility. The RAH page includes numerous resources as well as county, state and federal programs which are described and linked.

STUDENT CASE MANAGEMENT

Student case management ⤷ **(https://studentcasemanagement.colostate.edu/)** is available to help students with extenuating life circumstances and connect them with resources. In some cases, after you and your instructor discuss your situation, your instructor may request **verifiable documentation for class absences** ⤷ **(https://studentcasemanagement.colostate.edu/class-absences/)** from the SCM office if you request considerations for absences or missed coursework. Don't be afraid to contact the above office, or mention your needs to your instructor, if you find yourself affected negatively by extenuating life circumstances.

TITLE IX/INTERPERSONAL VIOLENCE

For the full statement regarding role and responsibilities about reporting harassment, sexual harassment, sexual misconduct, domestic violence, dating violence, stalking, and the retaliation policy please go to: **Title IX – Sexual Assault, Sexual Violence, Sexual Harassment** ⤷ **(https://titleix.colostate.edu/)** .

If you feel that your rights have been compromised at CSU, several resources are available to assist:

- Student Resolution Center, 200 Lory Student Center, 491-7165
- Office of Equal Opportunity, 101 Student Services, 491-5836

A note about interpersonal violence: If you or someone you know has experienced sexual assault, relationship violence and/or stalking, know that you are not alone. As instructors, we are required by law to notify university officials about disclosures related to interpersonal violence. Confidential victim advocates are available 24 hours a day, 365 days a year to provide support related to the emotional, physical, physiological and legal aftermath of interpersonal violence. Contact the Victim Assistance Team at: 970-492-4242.

RELIGIOUS OBSERVANCES

CSU does not discriminate on the basis of religion. Reasonable accommodation should be made to allow individuals to observe their established religious holidays. Students seeking an exemption from attending class or completing assigned course work for a religious holiday will need to fill out the

Religious Accommodation Request Form ⤴ (https://studentaffairs.colostate.edu/resource/religious-accommodation-request-form/) and turn it in to the Division of Student Affairs, located on the second level of the Administration building.

Once turned in, the Division of Student Affairs will review the request and contact the student accordingly. If approved, the student will receive a memo from the Dean of Students to give to their professor or course instructor.

Students are asked to turn in the request forms as soon as the conflict is noticed. Similarly, unanticipated conflicts requiring a religious observance, such as a death in the family, can also be reviewed.

CSU PRINCIPLES OF COMMUNITY

Inclusion: We create and nurture inclusive environments and welcome, value and affirm all members of our community, including their various identities, skills, ideas, talents and contributions.

Integrity: We are accountable for our actions and will act ethically and honestly in all our interactions.

Respect: We honor the inherent dignity of all people within an environment where we are committed to freedom of expression, critical discourse, and the advancement of knowledge.

Service: We are responsible, individually and collectively, to give of our time, talents, and resources to promote the well-being of each other and the development of our local, regional, and global communities.

Social Justice: We have the right to be treated and the responsibility to treat others with fairness and equity, the duty to challenge prejudice, and to uphold the laws, policies and procedures that promote justice in all respects.

DIVERSITY AND INCLUSION

Here is the **Mission, Vision, and Focus** ⤴ (https://catalog.colostate.edu/general-catalog/welcome/mission-values/) statement of Colorado State University, which is a comprehensive statement of CSU's commitment to diversity and inclusion. This website--> **CSU Student Diversity Programs** ⤴ (https://studentdiversity.colostate.edu/) has links to all the different Student Diversity Programs and Services at Colorado State University in Fort Collins.

MENTAL HEALTH AND WELLNESS

CSU is a community that cares. You are not alone. CSU Health Network Counseling Services has trained professionals who can help. Your student fees provide access to a wide range of support

services.

Call Counseling Services at (970) 491-6053, and they will work together with you to find out which services are right for you.

CSU counseling services ⤷ **(https://health.colostate.edu/about-counseling-services)**

Student mental health and well-being resources ⤷ **(https://health.colostate.edu/mhwb-resources/)**

If you are concerned about a friend or peer, use **Tell Someone** by calling (970) 491-1350 or visiting **CSU Tell Someone** ⤷ **(https://supportandsafety.colostate.edu/tell-someone/)** to share your concerns with a professional who can discreetly connect the distressed individual with the proper resources. Rams Take Care of Rams. Reach out and ask for help if you or someone you know is having a difficult time.

STUDENTS WHO ARE PARENTS, GUARDIANS, CAREGIVERS, OR PREGNANT.

CSU recognizes that students who are parents, guardians, caregivers, or pregnant face distinctive challenges in succeeding academically, and we are committed to supporting those in these situations to achieve good course learning outcomes. If you encounter challenges in meeting course expectations – for example, fulfilling attendance and participation requirements or submitting assignments due to a child or person in your care's illness, essential appointment, school closure, etc. – please contact your instructor as soon as possible (beforehand if feasible or as soon afterward you reasonably can if not). Work with your instructor to develop a plan for you to make up missed work. Also, please see the course syllabus for related course policies. If you need to bring your child or person you care for to class, for example because you're nursing or planned childcare became unavailable, check with your instructor about whether you may do so if you believe it's feasible for you to participate in class and support your child or person in your care.

Group work assignments should be designed to provide flexible approaches to participating, and all groups should develop plans that enable all members to contribute equitably. If your group encounters challenges in doing so, please reach out to your instructor to devise a solution.

Finally, know that **pregnant and parenting students are guaranteed equal educational opportunities by Title IX** ⤷ **(https://www2.ed.gov/about/offices/list/ocr/docs/dcl-know-rights-201306-title-ix.html)** ; know your rights, the protections provided, and how to advocate for yourself.

ADDITIONAL ESSENTIAL COURSE INFORMATION

Additional essential course information can be found under the **Course Information (https://colostate.instructure.com/courses/207798/modules/1134694)** module in Canvas. Be sure to read and study all of the sections of that module, in order to complete your orientation to all the details of how this course will operate.

Course Summary:

Date	Details	Due
Mon Aug 25, 2025	📄 **Lecture 1: An Introduction to Vectors and Matrices**	to do: 11:59pm
Wed Aug 27, 2025	📄 **Lecture 2: Matrix Multiplication**	to do: 11:59pm
Fri Aug 29, 2025	📄 **Lecture 3: Introduction to Linear Systems and Elementary Row Operations**	to do: 11:59pm
Sun Aug 31, 2025	📝 **Module 1 Problem Set (https://colostate.instructure.com/courses/207798/assignments/2817624)**	due by 11:59pm
Mon Sep 1, 2025	📄 **Lecture 4: Echelon Form and Rank**	to do: 11:59pm
Wed Sep 3, 2025	📄 **Lecture 5: Row Reduced Echelon Form (RREF)**	to do: 11:59pm
	📝 **Module 1 Problem Set (https://colostate.instructure.com/courses/207798/assignments/2817624)** (1 student)	due by 11:59pm
Fri Sep 5, 2025	📄 **Lecture 6: Solving Systems**	to do: 11:59pm
Sun Sep 7, 2025	📝 **Module 2 Problem Set (https://colostate.instructure.com/courses/207798/assignments/2817630)**	due by 11:59pm
Mon Sep 8, 2025 🔊	📄 **Lecture 7: The Matrix Inverse**	to do: 11:59pm
Wed Sep 10, 2025	📄 **Lecture 8: Vector Spaces**	to do: 11:59pm
Fri Sep 12, 2025	📄 **Lecture 9: Vector Subspaces**	to do: 11:59pm
Sun Sep 14, 2025	📝 **Module 3 Problem Set (https://colostate.instructure.com/courses/207798/assignments/2817631)**	due by 11:59pm
Mon Sep 15, 2025	📄 **Lecture 10: Sums and Direct Sums of Subspaces**	to do: 11:59pm

Date	Details	Due
Thu Sep 18, 2025	📝 **Module 4 Problem Set** (https://colostate.instructure.com/courses/207798/assignments/2817632)	due by 11:59pm
Sun Sep 21, 2025	📝 **Midterm 1 Fall 2025 - Requires Respondus LockDown Browser + Webcam** (https://colostate.instructure.com/courses/207798/assignments/2881731)	due by 11:59pm
Mon Sep 22, 2025	📄 **Lecture 11: The Column Space**	to do: 11:59pm
Wed Sep 24, 2025	📄 **Lecture 12: The Null Space**	to do: 11:59pm
Fri Sep 26, 2025	📄 **Lecture 13: The Basis of a Vector Space**	to do: 11:59pm
Sun Sep 28, 2025	📝 **Module 5 Problem Set** (https://colostate.instructure.com/courses/207798/assignments/2817633)	due by 11:59pm
Mon Sep 29, 2025	📄 **Lecture 14: Change of Basis**	to do: 11:59pm
Wed Oct 1, 2025	📄 **Lecture 15: The Row Space**	to do: 11:59pm
Fri Oct 3, 2025	📄 **Lecture 16: Basis for a Column Space**	to do: 11:59pm
Sun Oct 5, 2025	📝 **Module 6 Problem Set** (https://colostate.instructure.com/courses/207798/assignments/2817634)	due by 11:59pm
Mon Oct 6, 2025 🔊	📄 **Lecture 17: The Null Space Revisited**	to do: 11:59pm
Wed Oct 8, 2025	📄 **Lecture 18: Orthogonality**	to do: 11:59pm
Fri Oct 10, 2025	📄 **Lecture 19: Projections, Part 1**	to do: 11:59pm
Sun Oct 12, 2025	📝 **Module 7 Problem Set** (https://colostate.instructure.com/courses/207798/assignments/2817635)	due by 11:59pm
Mon Oct 13, 2025	📄 **Lecture 20: Projections, Part 2**	to do: 11:59pm

Date	Details	Due
Thu Oct 16, 2025	📝 **Module 8 Problem Set** (https://colostate.instructure.com/courses/207798/assignments/2817636)	due by 11:59pm
Sun Oct 19, 2025	📝 **Midterm 2 Fall 2025 - Requires Respondus LockDown Browser + Webcam** (https://colostate.instructure.com/courses/207798/assignments/2881732)	due by 11:59pm
Mon Oct 20, 2025	📄 **Lecture 21: Model Fitting**	to do: 11:59pm
Wed Oct 22, 2025	📄 **Lecture 22: Model Fitting, Part 2**	to do: 11:59pm
Fri Oct 24, 2025	📄 **Lecture 23: The Determinant, Part 1**	to do: 11:59pm
Sun Oct 26, 2025	📝 **Module 9 Problem Set** (https://colostate.instructure.com/courses/207798/assignments/2817637)	due by 11:59pm
Mon Oct 27, 2025	📄 **Lecture 24: The Determinant, Part 2**	to do: 11:59pm
Wed Oct 29, 2025	📄 **Lecture 25: Eigenvectors and Eigenvalues, Part 1**	to do: 11:59pm
Fri Oct 31, 2025	📄 **Lecture 26: Eigenvectors and Eigenvalues, Part 2**	to do: 11:59pm
Sun Nov 2, 2025	📝 **Module 10 Problem Set** (https://colostate.instructure.com/courses/207798/assignments/2817625)	due by 11:59pm
🔊 Mon Nov 3, 2025	📄 **Lecture 27: Diagonalization**	to do: 11:59pm
Wed Nov 5, 2025	📄 **Lecture 28: Eigenvalues and Eigenvectors of Symmetric Matrices**	to do: 11:59pm
Fri Nov 7, 2025	📄 **Lecture 29: Linear Transformations**	to do: 11:59pm

Date	Details	Due
Sun Nov 9, 2025	📝 **Module 11 Problem Set** [(https://colostate.instructure.com/courses/207798/assignments/2817626)](https://colostate.instructure.com/courses/207798/assignments/2817626)	due by 11:59pm
Mon Nov 10, 2025	📄 **Lecture 30: Ranges and Null Spaces of Linear Transformations**	to do: 11:59pm
Thu Nov 13, 2025	📝 **Module 12 Problem Set** [(https://colostate.instructure.com/courses/207798/assignments/2817627)](https://colostate.instructure.com/courses/207798/assignments/2817627)	due by 11:59pm
Sun Nov 16, 2025	📝 **Midterm 3 Fall 2025 - Requires Respondus LockDown Browser + Webcam** [(https://colostate.instructure.com/courses/207798/assignments/2881735)](https://colostate.instructure.com/courses/207798/assignments/2881735)	due by 11:59pm
Mon Nov 17, 2025	📄 **Lecture 31: Injections and Surjections, Part 1**	to do: 11:59pm
Wed Nov 19, 2025	📄 **Lecture 32: Injections and Surjections, Part 2**	to do: 11:59pm
Fri Nov 21, 2025	📄 **Lecture 33: Matrix Representations of Linear Transformations**	to do: 11:59pm
Sun Nov 23, 2025	📝 **Module 13 Problem Set** [(https://colostate.instructure.com/courses/207798/assignments/2817628)](https://colostate.instructure.com/courses/207798/assignments/2817628)	due by 11:59pm
Mon Dec 1, 2025	📄 **Lecture 34: The Adjoint of a Matrix**	to do: 11:59pm
Wed Dec 3, 2025 🔊	📄 **Lecture 35: Cramer's Rule**	to do: 11:59pm
Fri Dec 5, 2025	📄 **Lecture 36: More Applications of Systems of Linear Equations - Network Analysis, Electrical Networks, and the Adjacency Matrix.**	to do: 11:59pm
Sun Dec 7, 2025	📝 **Module 14 Problem Set** [(https://colostate.instructure.com/courses/207798/assignments/2817629)](https://colostate.instructure.com/courses/207798/assignments/2817629)	due by 11:59pm

Date	Details	Due
Sun Dec 14, 2025	📝 **Final Exam Fall 2025 - Requires Respondus LockDown Browser + Webcam** (https://colostate.instructure.com/courses/207798/assignments/2881736)	due by 11:59pm

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