

INTRO TO TAMS ACADEMICS

For Students



A man in a blue polo shirt is standing at the front of a classroom, pointing towards a whiteboard. He is gesturing with his right hand. In the foreground, the backs of several students' heads are visible as they sit at desks. The room has a whiteboard and a projector screen. The entire image is overlaid with a green tint.

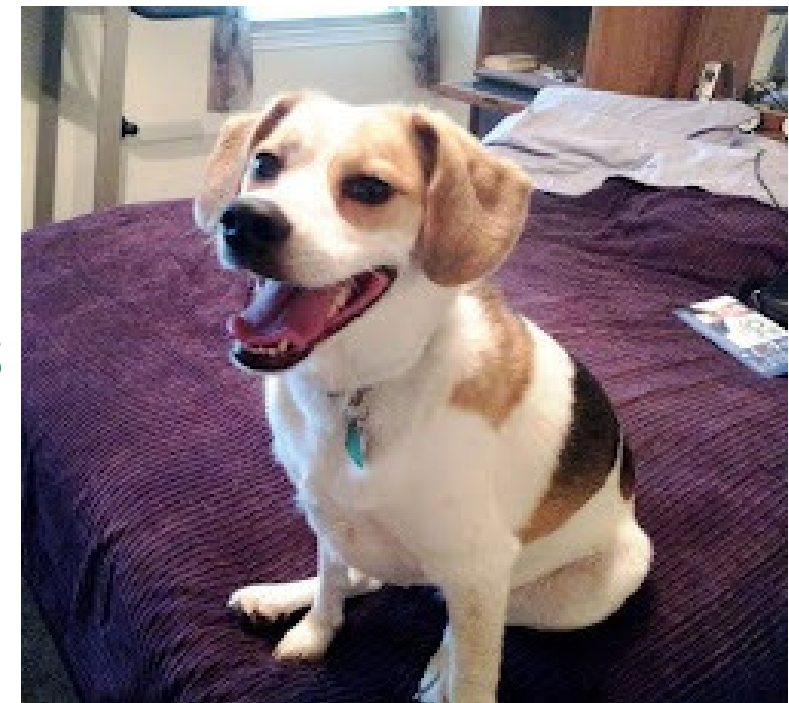
ACADEMIC COUNSELORS WHO WE ARE



**MS. BRIANNA
CASEY**

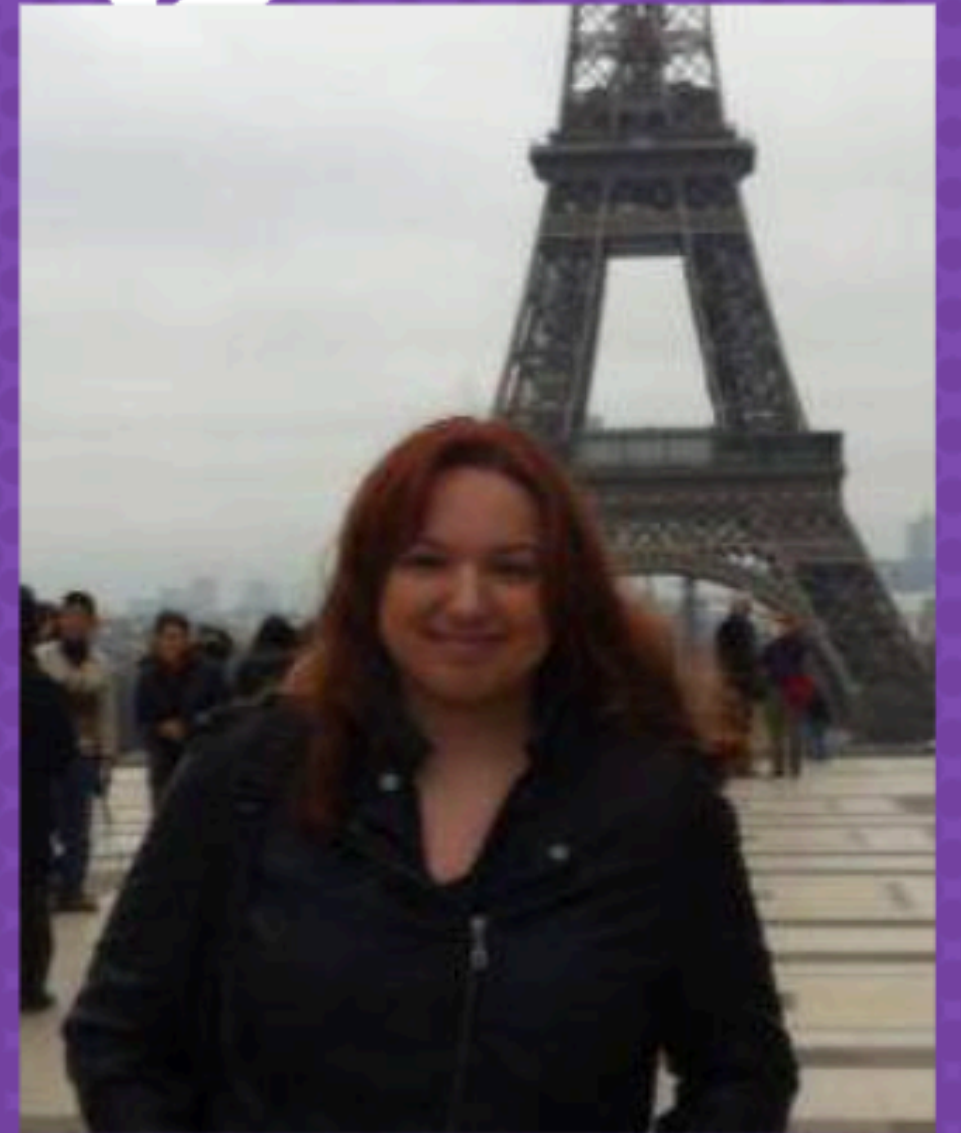
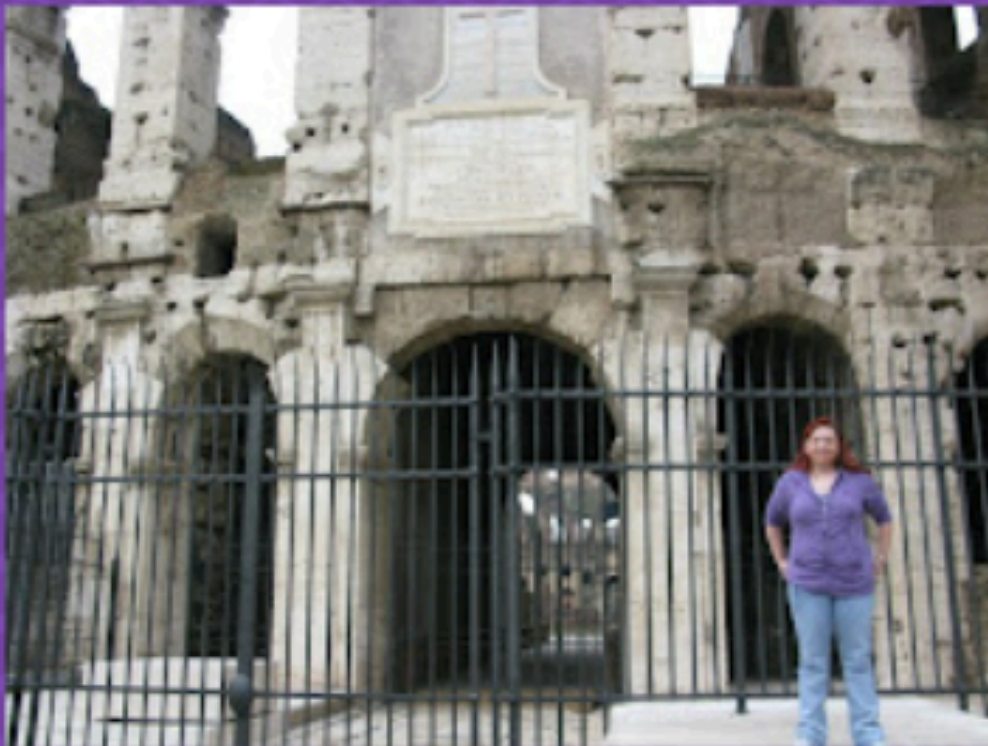
A little about me...

- MA English, MEd Teacher Leadership w/focus in Gifted Education
- 15yrs teaching experience, with students pre-K through college-level
 - 7yrs, GT/Honors ELAR 6-8 teacher
 - 5yrs, GT Program Campus Coord.
 - 3yrs, Prof. of ENGL at NCTC, TWU
- Enjoys reading, writing watching scifi, mystery playing chess, video games learning trivia, music hanging with Bailey



I LOVE TRAVEL

***...TO ENGLAND, WALES, FRANCE, MONACO, ITALY,
MEXICO, SPAIN, JAMAICA, CANADA, AND MANY STATES!***



So... if you haven't guessed it by now—
I'm what you might call an epic nerd...
I'm pretty chill, (when caffeinated), but
enthusiastic about various interests:
education, literature, TV/movies, music,
tech, culture, games, trivia, chess, etc.



A little about me...

- lifelong Texan, in many cities across the state; deep appreciation for diverse student experiences
- school counselor and teacher at elementary, middle, and high school
- enjoys spending time with her kids, Noah and Isabella, and dog, Ginger
- hobbies include cooking, hiking, and bird watching



**MS. ANITRA
CHAMBERS**

ACADEMIC COUNSELORS

WHAT WE DO

A close-up photograph of several hands of different skin tones stacked together in a circle, with fingers pointing towards the center. The hands are resting on a green surface. The word "SUPPORT" is overlaid in white capital letters on the left side of the image.

SUPPORT

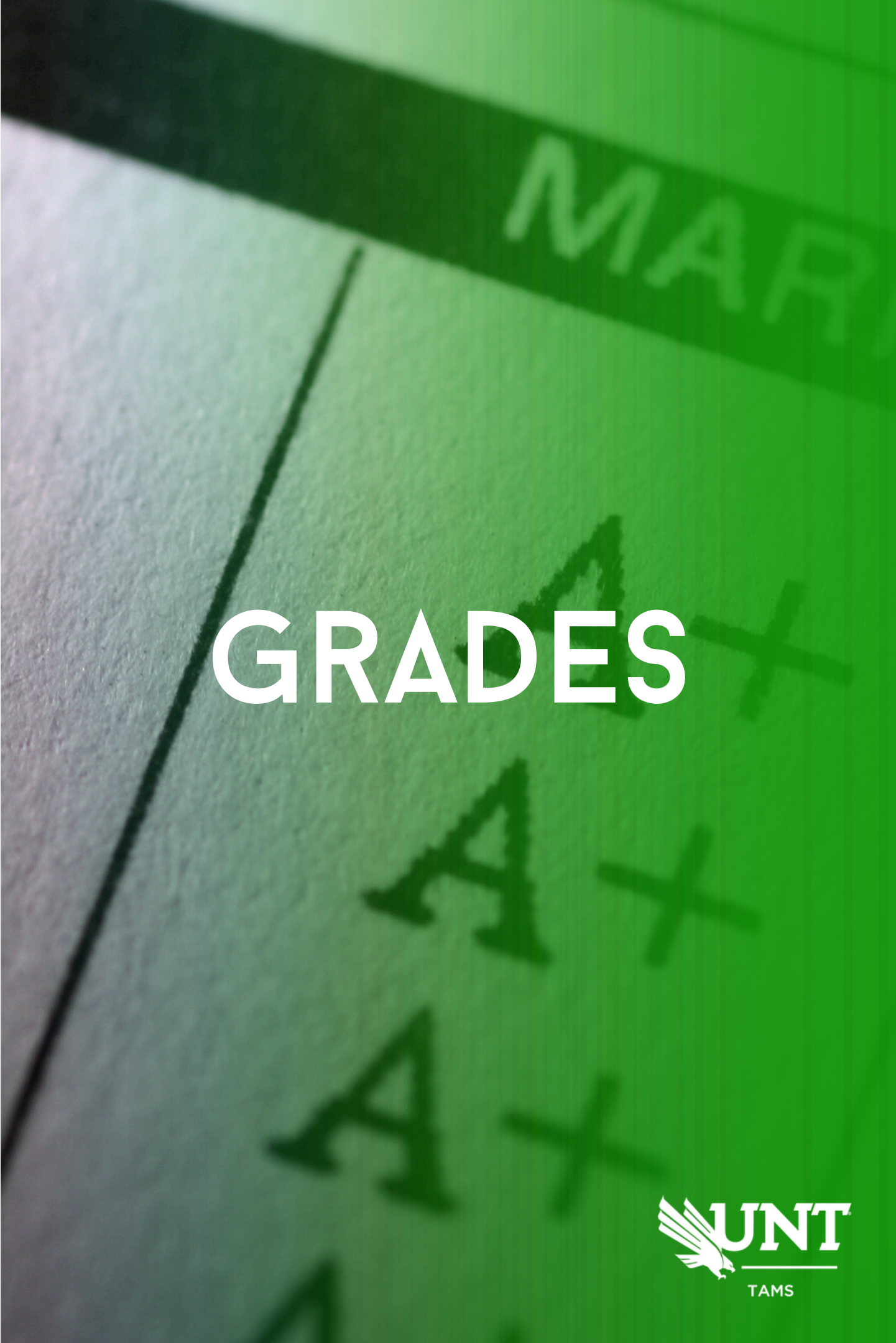
Academic counselors are here to support you throughout your years at TAMS:

- course selection
- create schedules
- build on progress
- time management
- balance commitments
- strengthen study skills
- connect to resources
- improve communication
- listen!

One way that academic counselors support you is by being mindful of your academic progress.

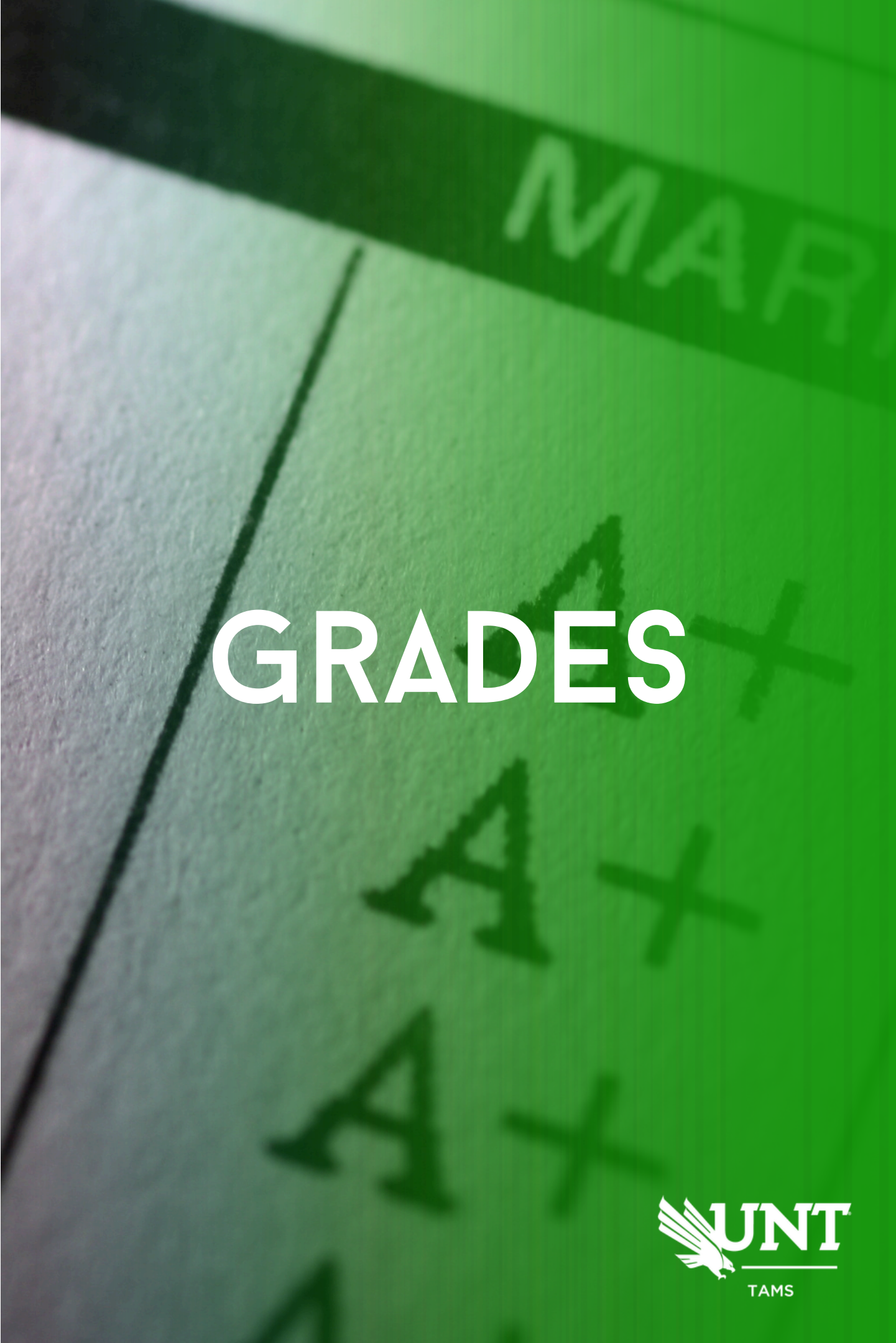
You're always welcome to visit with us if you're feeling uneasy about how to do well in your courses. Be proactive!

However, if we notice concerning trends forming, such as multiple low exam scores or missing assignments, we'll invite you to come chat with us about how things are going and brainstorm ways to improve.



GRADES

- Counselors will email Mid-Semester Progress Reports to all families at about Weeks 10–11.
- We will also reach out if we notice a concerning trend that hasn't improved after meeting with you.
- You should be keeping your families apprised of grade changes. They'd prefer to hear about your struggles and successes from you!



GRADES

Another way that academic counselors support you is by noticing your class attendance and participation.

- Dude, y'all are pretty impressive.
- In HS, you might've been able to multitask during class, or absorb the gist of lectures without taking notes or studying... But sadly, that won't cut it now.
- Being “present” and “in attendance” is much more than sitting in a chair. It's about your attention and presence in the moment-- being *actively engaged*.
- Increase your focus stamina, deepen your understanding, and enhance memory recall by removing distractions, volunteering to participate, and taking handwritten notes.

ATTENDANCE

Another way that academic counselors support you is by noticing your class attendance and participation.

- TAMS requires students to attend all course lectures, recitations, and labs-- **regardless** of professors who say that attendance is optional or ungraded!
- Likewise, students are required to report unavoidable absences to their counselors.
- Students with excessive absences will accrue academic points which will restrict your eligibility to attend extracurricular events, receive honors, etc.
- Skipping professors' classes also makes a poor impression of your work ethic, and is disrespectful of their time. Many of you spoke of wanting this opportunity to learn at TAMS-UNT; don't waste it!
- Build positive habits and routines now, so you'll have them to rely on when coursework gets harder, and when you'll need to be more self-sufficient.

ATTENDANCE



Show Up. Score Up.

Data analyzed from just last semester found that:

- Students with at least 90% attendance scores earned an “A” class average 85% of the time.
- Falling below 80% attendance cut the chances of earning an “A” nearly in half.
- College courses move fast! One missed class is an entire missed concept that everything else builds on, and unlike high school, you can’t rely on in-class workdays or extra credit safety nets.
- **Bottom line:**
 - The students who show up, are the students who succeed. If you’re not in the room, you’re falling behind — and the data proves it.
 - Attendance can make a real difference in GPA, scholarship eligibility, and college applications.

ATTENDANCE



PROFESSORS

- One more way we support you is by building your independence and professionalism, especially when communicating with professors.
 - We'll help you practice appropriate and effective communication and self-advocate for your needs.
- University professors may *seem* more intimidating than high school teachers, but most really do enjoy teaching and want to help you learn.
 - Don't be afraid to ask questions in class or attend office hours for extra review.
 - Build rapport and networking opportunities.



FERPA

The Family Educational Rights and Privacy Act (FERPA) protects student confidentiality records.

TAMS students sign FERPA waivers, so that ACs can serve as liaisons between UNT faculty and TAMS families, in order to share pertinent information about student grades, attendance, conduct, etc.

That said, UNT faculty are not permitted to communicate with students' families directly, so please contact your AC with any concerns.

A woman with dark hair, wearing a light blue shirt, is looking towards the right. She is in a classroom setting with colorful decorations and a bookshelf in the background. The image is partially covered by a green overlay.

WHAT WE SHARE

The job of the academic counselor is not to report everything a student shares during meetings. In fact, we encourage students to build their independence and problem-solving skills during these years.

We want to give you the time and space to learn from mistakes and try new solutions on your own. But if concerning academic trends continue, we want your support system at home to be aware.

Likewise, if other factors may be at work that may involve your health or safety, we are required to share those concerns. Our first priority is your wellbeing.



More detailed information will be presented tomorrow, and is also available for review in the TAMS Student Handbook.

For now, let's give you five practices to remember for setting positive mindset for success at TAMS!



5 KEYS FOR SUCCESS

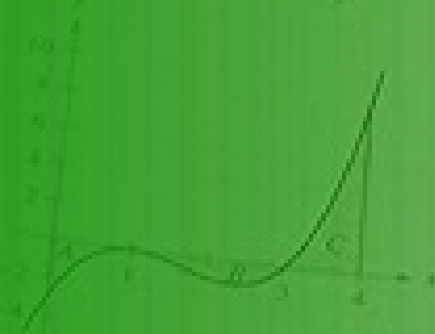


#1: COLLEGE STARTS NOW!



In high school...	But at TAMS...
I didn't need to study much in order to get good grades.	I need to study early and regularly in order to pass my classes.
My teachers reminded me about deadlines and put together study guides for me.	I am responsible for making my own study plan and holding myself accountable.
I could retake a test or redo an assignment to increase my grade.	I have only one opportunity for each grade, so I will take each one seriously.
I was the exception to most general statements.	General statements now will apply to me, so I will pay attention to them.

9. The graph of a continuous, twice-differentiable function f is shown in the figure below. The three regions between the graph of f and the x -axis are marked A, B, and C and have areas of 5.5, 8, and 15.5, respectively.



The function F is an antiderivative of f with the property that $F(1) = 9$.

- Which value is larger: $F(0)$ or $F(4)$? Justify your answer.
- How many times does F equal 5 on the interval $[0, 4]$? Show the work that leads to your conclusion.
- On what interval(s) is F increasing? Justify your answer.

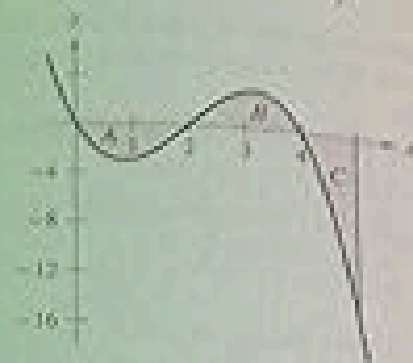
Other Practice Problems

For additional practice, try these exercises listed below. They too will provide good practice for the advanced placement exams.

*Section 4 is important; these topics often show up on exams.

Section	Exercises
4.1	51–54, 70, 81, 82
4.2	86
4.3	13–22, 46
4.4	35–38, 59, 73, 74, 94–102, 106
4.5	43–45, 91–96, 117, 118
4.6	22, 46
R	11, 12, 35, 36, 55, 56, 85–89
PS	9, 10

19. The graph of a continuous, twice-differentiable function f is shown in the figure below. The three regions between the graph of f and the x -axis are marked A, B, and C and have areas of 4, 4, and 6.25, respectively.



The function F is an antiderivative of f with the property that $F(0) = 6$.

- Which value is larger: $F(2)$ or $F(3)$? Justify your answer.
- How many times does F equal 4 on the interval $[0, 4]$? Show the work that leads to your conclusion.
- On what interval(s) is F increasing? Justify your answer.

5

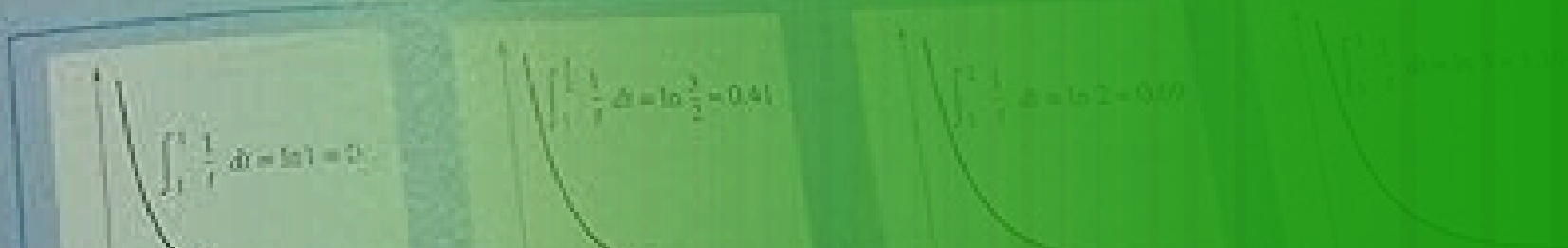
Logarithmic, Exponential, and Other Transcendental Functions

So far in this text, you have studied two types of elementary functions—algebraic functions and trigonometric functions. This chapter concludes the introduction of elementary functions. As each new type of elementary function is introduced, you will study its properties, its derivative, and its antiderivative. In this chapter, you should learn the following:

- The properties of the natural logarithmic function. How to find the derivative and antiderivative of the natural logarithmic function. (5.1)
- The properties of the natural exponential function. How to find the derivative and antiderivative of the natural exponential function. (5.4)
- The properties, derivatives, and antiderivatives of logarithmic and exponential functions that have bases other than e . (5.5)
- The properties of inverse trigonometric functions. How to find derivatives and antiderivatives of inverse trigonometric functions. (5.6, 5.7)
- The properties of hyperbolic functions. How to find derivatives and antiderivatives of hyperbolic functions. (5.8)



The Gateway Arch in St. Louis, Missouri is over 600 feet high and covered with 886 tons of quarter-inch stainless steel. A mathematical equation used to calculate the arch involves which function? (See Section 5.8, Section Project.)



- TAMS Student Handbook
- TAMS and UNT websites
- TAMS and UNT emails
- UNT course syllabi
 - Before asking a question, check to see if it's already been answered there!
- Textbooks
- Any course materials provided by your professors
- Use your syllabi to see which topic(s) will be covered during class. Read that section in the textbook and take notes on it before class. Build onto those notes during and after class.

#3: BE PRESENT!

All TAMS students are required to attend all classes. This is the easiest, way to learn, and make a positive impression on your professors.

REMEMBER,

**BEING “PRESENT” AND “IN ATTENDANCE” IS MUCH MORE THAN SITTING IN A CHAIR.
IT’S ABOUT YOUR ATTENTION AND PRESENCE IN THE MOMENT--
BE ACTIVELY ENGAGED.**

**DEEPEN YOUR UNDERSTANDING AND ENHANCE MEMORY RECALL BY REMOVING
DISTRACTIONS, VOLUNTEERING TO PARTICIPATE, AND TAKING HANDWRITTEN NOTES.**

You'll have an opportunity to
practice your active listening
during mock semester today.

See how much information you
can understand and retain!



COMMUNITY respect
for the individual.
INDIVIDUAL respect
for the community.
and INTEGRITY
in all things

#4: COMMUNICATE

TAMS and UNT are filled with people who want to support you, from your caring peers, to the qualified TAMS staff members, to your expert UNT professors.

Sadly, we aren't telepaths.
So, let us know how we can help you!



A female scientist with brown hair tied back, wearing a white lab coat and blue nitrile gloves, is smiling while using a pipette to transfer liquid into a small vial. The background shows laboratory equipment and shelves. The entire image has a green color overlay.

#5: BE PROACTIVE!

Expect the unexpected!
Think two steps ahead!
It never hurts to double-check!

Make yourself daily and weekly
schedules, and reflect on your
time management practices.

5 KEYS FOR SUCCESS

#1: College Starts Now!

#2: Read Carefully!

#3: Be Present!

#4: Communicate!

#5: Be Proactive!



Q&A