Mechanical and Aerospace Engineering
THE UNIVERSITY OF TEXAS AT ARLINGTON

2026 UTA AE/ME Graduate Students Orientation

10-11 am

JANUARY 6, 2026

http://mae.uta.edu/orientation


WELCOME!
UTA MAVERICK
ENGINEERS
UTA
Innovation Flies Here

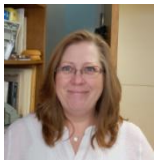
Agenda

- Welcome remark:

  Dr. Kamesh Subbarao, Interim Chair

- Staff advisor introduction:

  Wendy Ryan (WH 304), Lanie Gordon (WH 204)



- Graduate program overview:
  - Dr. Catherine Kilmain (AE Advisor, Interim Associate Chair)
  - Dr. Ratan Kumar (A-M), Dr. Seiichi Nomura (N-Z) (ME Advisors)

Proper Way to Address Faculty/Staff

- Dr. Last Name (for faculty)
- First Name (or Mr./Ms. family name) (for staff)
- Email salutation (in order of appropriateness)
    - Dr. Nomura (appropriate)
    - Prof. Nomura (formal)
    - Dear Sir/Madam (OK)
    - Respected Sir/Ma'am (too formal)
    - Nomura (OK in military)
    - Mr.Nomura (some are offended.)
    - Hey dude (if you expect no reply.)

Hold the door

How to be Polite

Vacation Home

- Must return before school begins.
- Employment rescinded if late return.
- Must be approved by your professor.

AE Master of Science (Thesis, 30 hours)

- 2 Core courses (6 hours)
- 2 Math courses (6 hours)
  - *Substitution of other MATH courses needs approval from Supervising Professor and the Graduate Advisor*

- 4 AE elective courses (12 hours)
  - *Can use one non-AE course*.
- Thesis - 6 hours: AE5698 or two AE5398 courses

- Thesis advisor: Find professor by end of Spring 2026.
- Three committee members
- **Can switch to MEngr (except for last semester)**, with appropriate course adjustments. If you have already been working on the thesis, then your supervising professor should confirm that he/she approves this change.

AE Master of Engineering (30 hours)

- 3 Core courses (9 hours)
- 2 Math courses (6 hours)
  - *Substitution of other MATH courses needs approval from the Graduate Advisor*

- 5 AE elective courses (15 hours)
  - *Can use one non-AE course*.

- **Can switch to MS (not in last semester)** only if all MS admission requirements are satisfied and if a supervising professor for thesis has been identified. Need an email confirmation for the same from the identified supervising professor.

AE Course requirements

- For both the M.S. and the M. Engr. degrees, the balance of the required coursework hours may be chosen in consultation with the Supervising Professor (MS) or Graduate Advisor (MEngr) to meet the student's needs and interests.

- Courses taken outside the Aerospace Engineering program require approval of the student's Supervising Professor as well as the Graduate Advisor.

- The elective courses cannot include special project courses (for example, AE 5391 / 5291 / 5191 Advanced Studies in Aerospace Engineering) or research courses (for example, AE 5397 / 5297 / 5197 Research in Aerospace Engineering).

- **Some courses such as AE 5397/6397 etc. are graded P/R/F**. An earned grade of P or R (can be taken for repeated credit) will not affect the GPA. However, earning an F will adversely affect the GPA.

CORE AREAS IN THE AEROSPACE ENGINEERING PROGRAM

The **four core areas** in the Aerospace Engineering program along with the recommended courses in each core area are listed below:

AE CORE COURSES

1. **Fluid Mechanics, Aerodynamics and Propulsion**
   - AE 5342 Gas Dynamics
   - **AE 5350 Classical Aerodynamics**
   - AE 5381 Boundary Layers
2. **Solid Mechanics and Structures**
   - AE 5310 Finite Element Methods
   - **AE 5311 Structural Dynamics**
   - **AE 5312 Continuum Mechanics**
   - AE 5339 Intermediate Mechanics of Materials
3. **Flight Mechanics and Controls**
   - AE 5302 Advanced Flight Mechanics
   - **AE 5362 Guidance, Navigation, and Control of Aerospace Vehicles**
4. **Flight Vehicle Design**
   - AE 5368 Flight Vehicle Synthesis and Systems Engineering

ME Master of Engineering (Non-thesis, 30 hours)

- 3 Core courses (9 hours)
- 2 Math courses (6 hours)
- 5 ME Elective courses (15 hours)
- Can be switched to M.S. (not in the last semester)

ME Master of Science (Thesis, 30 hours)

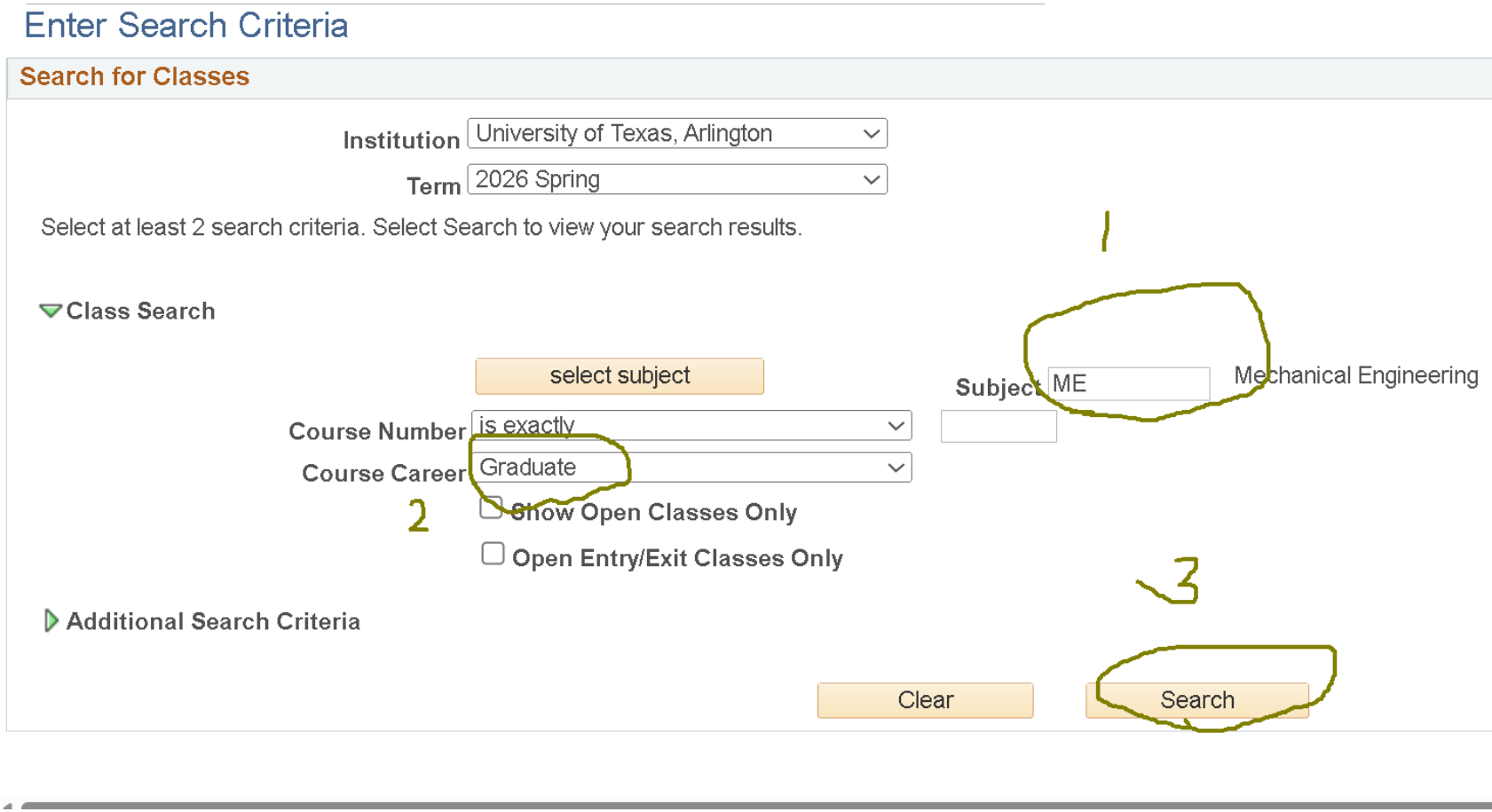
- 3 Core courses (9 hours)
- 2 Math courses (6 hours)
- 3 ME elective courses (9 hours)
- 6 hours of thesis: ME5698 or two ME5398
- Thesis advisor: Find Prof by the end of 2nd semester at the latest.
- Three committee members
- Can be switched to M.Eng. (not in the last semester)

ME CORE COURSES

1. **Fluid Science**
    - ME 5313 Fluid Dynamics
    - ME 5325 Combustion
    - ME 5342 Gas Dynamics
2. **Mechanics**
    - ME 5310 Finite Element Methods
    - **ME 5311 Structural Dynamics**
    - **ME 5312 Continuum Mechanics**
    - ME 5339 Intermediate Mechanics of Materials
3. **Thermal Science**
    - ME 5316 Thermal Conduction
    - ME 5317 Convection Heat Transfer
    - ME 5318 Radiation Heat Transfer
    - **ME 5321 Advanced Classical Thermodynamics**
4. **Controls and Systems**
    - **ME 5303 Classical Methods of Control Systems Analysis and Synthesis**
    - ME 5305 Dynamics Systems Modeling
    - ME 5341 Control System Components
5. **Design and Manufacturing**
    - ME 5320 Design Optimization
    - ME 5326 Manufacturing Processes and Systems
    - ME 5329 Additive Manufacturing
    - ME 5349 Polymer Science & Engineering

How to browse courses

- View Schedule of Classes


Enter Search Criteria
Search for Classes
Institution
University of Texas, Arlington
Term
2026 Spring
Select at least 2 search criteria. Select Search to view your search results.
1
Class Search
select subject
Subject
ME
Mechanical Engineering
Course Number
is exactly
Course Career
Graduate
2
Show Open Classes Only
Open Entry/Exit Classes Only
3
Additional Search Criteria
Clear
Search

ME 5303 - CLASSICAL METHODS OF CONTROL SYSTEMS ANALYSIS AND SYNTHESIS

Class	Section	Course Attribute	Days & Times	Room	Instructor	Class Capacity	Seats Reserved	Available Seats	Meeting Dates	Status	Buy Books
24407	001-LEC Regular	ONCAMPUS	TuTh 11:00AM - 12:20PM	SWSH 423	Animesh Chakravarthy	20		6	01/13/2025 - 04/29/2025		

Notes: This is a combined section class

Course Attribute Course Attribute Description

ONCAMPUS: Majority On Campus

Class	Section	Course Attribute	Days & Times	Room	Instructor	Class Capacity	Seats Reserved	Available Seats	Meeting Dates	Status	Buy Books
24408	002-LEC Regular	ASYNONLINE	TBA	OFF WEB	Animesh Chakravarthy	3		1	01/13/2025 - 04/29/2025		

Notes: This is a combined section class

Course Attribute Course Attribute Description

ASYNONLINE: Asynchronous Online

Class	Section	Course Attribute	Days & Times	Room	Instructor	Class Capacity	Seats Reserved	Available Seats	Meeting Dates	Status	Buy Books
26041	003-LEC Regular	ASYNONLINE	TBA	OFF WEB	Animesh Chakravarthy	1		1	01/13/2025 - 04/29/2025		

Notes: This is a combined section class

Course Attribute Course Attribute Description

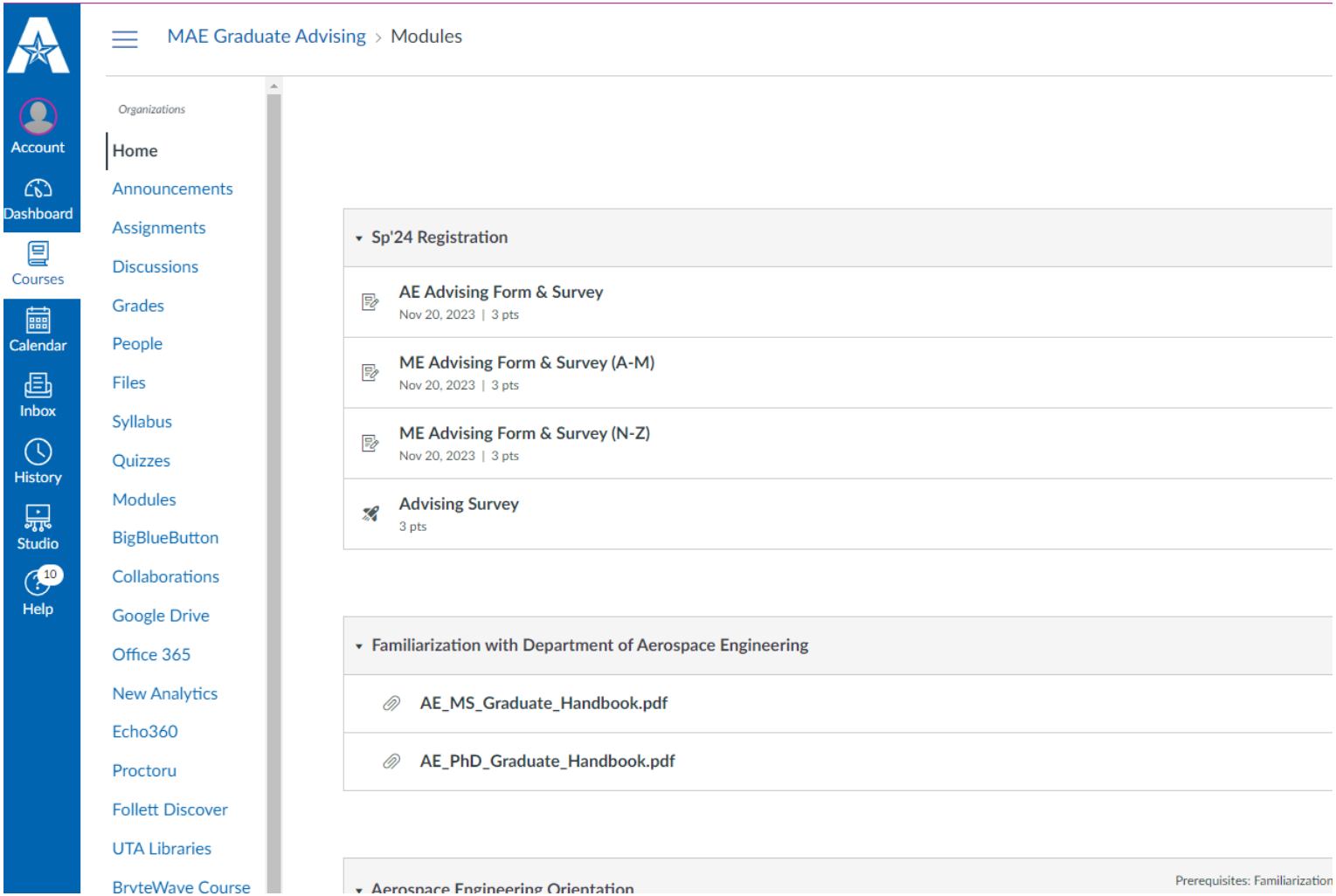
ASYNONLINE: Asynchronous Online

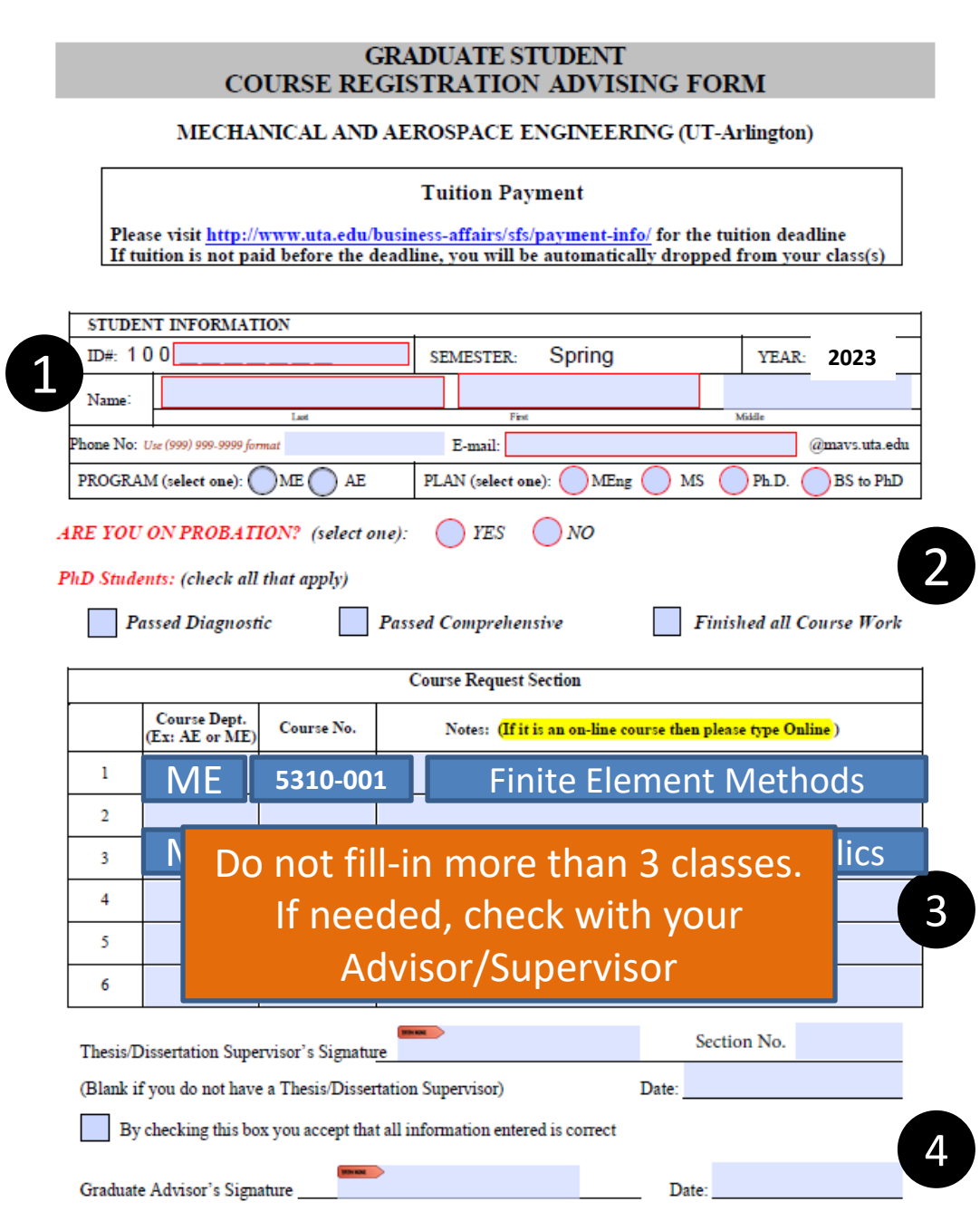
ME 5311 - STRUCTURAL DYNAMICS

How to choose courses

- AE students take AEXXXX courses. ME students take MEXXXX courses.
- Take courses in your area for the first semester.
- If lost, start taking two core courses and one math (AE5332 or ME5332).
- It is important to maintain good grades.

Course Registration





GRADUATE STUDENT
COURSE REGISTRATION ADVISING FORM

MECHANICAL AND AEROSPACE ENGINEERING (UT-Arlington)

Tuition Payment

Please visit http://www.uta.edu/business-affairs/sfs/payment-info/ for the tuition deadline
If tuition is not paid before the deadline, you will be automatically dropped from your class(s)

STUDENT INFORMATION

ID#: 1 0 0 _____ SEMESTER: Spring YEAR: 2023

Name: Last First Middle

Phone No: Use (999) 999-9999 format E-mail: @mavs.uta.edu

PROGRAM (select one): ME AE PLAN (select one): MEng MS Ph.D. BS to PhD

1

ARE YOU ON PROBATION? (select one): *YES* *NO*

PhD Students: (check all that apply)

2

Passed Diagnostic *Passed Comprehensive* *Finished all Course Work*

Course Request Section

	Course Dept. (Ex: AE or ME)	Course No.	Notes: (If it is an on-line course then please type Online)
1	ME	5310-001	Finite Element Methods
2			
3	M		lics
4			
5			
6			

Do not fill-in more than 3 classes.
If needed, check with your Advisor/Supervisor

3

Thesis/Dissertation Supervisor's Signature Section No.

(Blank if you do not have a Thesis/Dissertation Supervisor) Date:

By checking this box you accept that all information entered is correct

4

Graduate Advisor's Signature Date:

Download the File → Fill → Save it.
(This is preferred)

1. Student ID # (Will start with 1001).
2. If you have been admitted under Probation, please indicate.
3. Please provide the correct *Course and Section number* eg: 5310-001.
4. Supervisor's Name (Leave ***Blank*** if none).

Course Registration

Download the advising form from CANVAS

1) Non-Thesis student:
   Fill out the advising form and submit to the proper assignment in CANVAS.

2) Thesis student with No supervising professor
   Fill out the advising form and submit to the proper assignment in CANVAS.

3) Thesis student with Supervising professor
   Fill out the advising form and send it to your supervising professor for signature.
   After the supervising professor has signed, you will submit the form to the proper assignment in CANVAS.

Course Registration
(Form Submission)

1. AE students will submit their advising forms in the AE Advising Forms assignment.

2. ME students will submit to either ME (A-M) for students whose last name begins with A-M, or ME Advising Forms (N-Z), for students whose last name that begin with N-Z.

3. Fill out the form correctly, including section numbers, and do NOT write below the line where you check the box. We do NOT need you to date the form. The form is date stamped when you submit it.

4. Be sure to save your form using your UTA ID# as the name of your advising form.

Checklist

1. Carefully review your filled form.

2. Upload it to the correct assignment else it ***will not*** be processed.

3. Give us ***2 business days*** to process the form.

4. In case you are not able to register beyond 2 days after submission, then please contact:
   Ms. Wendy Ryan (WH 304), Staff advisor (wendy.ryan@uta.edu)

Academic Integrity

- Cheat
  - Copying another's test
  - Communicating with each other during exams
  - Contacting the internet during exams
  - Giving/seeking aids during exams
  - Using unauthorized materials during exams
  - Buying a test/report from the internet
- Plagiarize
  - Using someone else' work without acknowledgment
  - Making slight modification without acknowledgment

Internship Opportunities

- Eligible after 2 semesters
- Must be in good standing
- Maximum: 2 semesters
- Local/Out of state companies
- Send 500 resumes.
- Can take distance courses while away
- Can lead to permanent employment

MAE Computer Lab

- Room 320, Woolf Hall
- Open: TBA
- Account automatically activated upon enrollment
- Office/MATLAB/Mathematica/Ansys/Pro-E

MISC. and some life hacks

- Choose a research professor ASAP or by the end of the second semester **at the latest**.
- Grade Forgiveness policy available
- Attend campus seminars. Many come with snack/lunch. You learn something new.
- Use **Arlington On-Demand** within Arlington. $3-5 a ride.

Tips for Success

- Be punctual.
- Always include your UTA ID.
- Never miss an appointment.
- Ask questions. That makes difference.
- Your grade follows you until you die!

Question ?