

# MAE ADVISING INFORMATION

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Spring 2016

## NEW ADVISING PROCESS

***The MAE Department no longer requires advising.*** All advising holds have been removed. You can register at your specified date and time.

We recommend you still read the MAE Advising Briefing and complete/update your self-advising Excel spreadsheet. The current version is linked through the MAE Advising Website: <http://mae.uccs.edu/currentstudents/advising.php>

Students are solely responsible for ensuring they are signing up for the correct classes. We do realize you may need help, so will still hold one group advising and additional walk in hours to help as needed.

You can also receive advising help via email. We recommend you send questions or issues to [MAEAdvis@uccs.edu](mailto:MAEAdvis@uccs.edu), as multiple people monitor that email and your response will be faster. Please include your full name and student ID number in all emails to facilitate the answer.

Dr. Julie Albertson, [jalberts@uccs.edu](mailto:jalberts@uccs.edu), is the advising coordinator and the best person in MAE to discuss class and registration issues with. You can also visit your MAE faculty for questions about careers, general information, etc. You will receive a separate email with your MAE faculty advisor's name.

## MAE Group Advising & Walk In Hours

- Group Advising – drop in at any point during this time:
  - Tuesday, April 5th
    - 3 – 4:45 PM University Center 124
- Dr. Albertson’s Walk In Hours (first come first served), OCSE A442
  - Thursday, April 7<sup>th</sup> 1:30 – 4:30 PM
  - Wednesday, April 13<sup>th</sup> 7AM – 2PM
- Dr. Albertson’s Regular Office Hours
  - Tuesday 9:30 – 10:40 AM & 12:15 – 3 PM
  - Thursday 11AM – 1:30PM
- To attend any advising, **MUST** bring a copy of your Self Advising Spreadsheet, version 2.4. An electronic copy is fine.
- You may also email [MAEAdvis@uccs.edu](mailto:MAEAdvis@uccs.edu) with advising questions. Include a copy of your Self Advising Spreadsheet, version 2.4.

## MAE STUDENT COUNCIL

The MAE department has put together a new Student Council. Members will serve as a conduit between students and the department for issues and improvements.

Current Members:

Brandon Bell  
 Haley Dinkel  
 Brandon Gutierrez  
 Jeremy Springston

Coming soon:

Email for the council: [MAEStuCo@uccs.edu](mailto:MAEStuCo@uccs.edu) (in process)  
 Blackboard discussion forum for all MAE students (in process)

## IMPORTANT DATES AND REMINDERS

- The Summer 2016 schedule is available, and Fall 2016 schedule will be available March 4th.
- Summer registration begins April 4th and Fall registration begins April 18th. Each student has a different registration date and time, based on your number of completed credits. See your myUCCS Portal for the details of your registration appointment.
- To aid in your course planning, run a new Degree Audit or find the Advising Guide that corresponds to your catalog year (the year you started) here:  
<http://www.uccs.edu/advising/resources.html>

## Student Schedules

- Use the Self Advising Spreadsheet Version 2.4
  - Helps to ensure you graduate when desired
  - Pay careful attention to prerequisites and long course sequences
- Each core course offered both fall and spring semesters
- Exception: MAE 4510/4511 Senior Design
  - Two-semester course starting in **Fall Only**.
  - December graduates take previous fall / spring. **Your spreadsheet MUST demonstrate degree fulfillment no later than Fall 2016 in order for you to sign up for Fall 2015 MAE 4510.**
- Program information can be found at:  
<http://www.uccs.edu/advising/majors-and-minors.html>

## Program Changes

1. MAE 2055/3055
  - a) MAE 3055 is being removed from the MAE program.
  - b) Those taking MAE 2055 prior to Fall 2016 will still take MAE 3055
  - c) Those taking MAE 2055 Fall 2016 or later will not take MAE 3055. MAE 2055 will become four credits and require PES 1120 as a prerequisite starting in Fall 2016.
2. MAE 3310 Heat and Mass Transfer has been changed to MAE 4310 Heat Transfer to recognize content and place in the MAE program.
3. MAE 3040 Engineering Ethics is now ENGR 3040 Engineering Ethics and counts as a navigate course in the Compass Curriculum.

## Summer Courses (Tentative)

- Summer Core (Assuming sufficient enrollment):
  - MAE 2055 Mechatronics I (Note: you still take MAE 3055 in Fall 16)
  - MAE 2200 Materials Engineering
  - MAE 2301 Thermodynamics
  - MAE 3005 Measurements Lab
  - MAE 3130 Fluid Mechanics and Lab
  - MAE 3201 Strengths of Materials
- Additional Summer 2016 (Assuming sufficient enrollment):
  - MAE 1502 Principles of Engineering
  - MAE 2104 Engineering Mechanics II
  - ENGR 3040 Engineering Ethics (Formerly MAE 3040) (Online)
  - MAE 4310 Heat Transfer and Lab (Formerly MAE 3310)
  - MAE 3342 Engineering Economy (Online)
  - MAE 4120 Machine Design II
  - MAE ???? Space Mission Analysis and Design (Graduate Course)

## Fall 2016 Technical Electives

- ENGR 3040 Engineering Ethics (counts only as a business elective. Used to be MAE 3040)
- MAE 3320 Biomass Energy Analysis
- **MAE 4000 MAE Seminar (must take three times)**
- **MAE 4130 Intermediate Fluid Mechanics**
- **MAE 4135 Aerodynamics**
- **MAE 4316 Propulsion**
- **MAE 4402 Intermediate Dynamics**
- MAE 9110-001 Design of Thermal Fluid Systems (counts as a 4000-level tech elective)
- MAE 5011 Engineering Analysis I
- **MAE 5131 Computational Fluid Dynamics**
- MAE 5310 Intermediate Heat Transfer
- **MAE 5410 Astroynamics**

Classes in bold count for the Aerospace Minor

Note: All 5000-level courses require permission of instructor to register. To add, **the instructor** must email Ms. Vigil directly with student's full name and the course. She will then supply the student a permission number.

## Math & Aerospace Minors

- Aerospace Minor
  - No additional classes
  - Directs technical electives to aerospace-specific courses
  - GPA of 2.0 in minor courses
- Math Minor
  - One additional course from Math 2150, 3110, 3410, 3500, 3510, 4130, 4140, 4210, or 4310
  - C or better in ALL math classes. Will grant ONE exception for a C-. Contact the Math Department to petition for the exception.
  - **MUST take Math 3810 instead of ECE 3610.**
- Minor information can be found at:
  - <http://www.uccs.edu/advising/resources.html>

## Scheduling Issues

- Make sure you waitlist for classes you cannot get into. We use this information to address problems, potentially increase class size, etc.
- If you can't register for a course required for graduation:
  - Email MAEadvis@uccs.edu by May 6<sup>th</sup> with:
    - A copy of your degree audit
    - Details on the issue
    - A copy of your completed self-advising spreadsheet
    - Your expected graduation date
  - **We will NOT address such emails after this date – please plan ahead.**
  - **Please note: registering late is not considered a reason to help you. We expect students to register on or near their specified date and time. It will prevent many issues.**

## Writing Portfolio

- Guarantees every UCCS student meets minimum written communication standard
- See website for more information:  
<http://www.uccs.edu/~writingportfolio/>
- Submitted:
  - Once you have earned 60 credits
  - At least two semesters BEFORE you graduate (including summer semester)
- Enroll in PORT 3000 to submit required work

## Seniors

<http://www.uccs.edu/mae/seniors.html>

- Must do senior audit with Claire Ami (A – K) or Nate Raugutt (L – Z) the same semester you enroll in MAE 4510.
- Must do senior exit survey the same semester you take MAE 4511.
- Fundamentals of Engineering Exam
  - First step in two-step professional engineering license
  - Coordinated by Ms. Stephanie Vigil.
  - \$100 reimbursement from the Dr. Osborne fund for those who pass the exam.
  - See: <http://www.uccs.edu/mae/seniors.html> for details and updates

## BS/MS Program

- Simultaneously pursue the Bachelor of Science (BS) in Mechanical Engineering and Master of Science (MS) in Mechanical Engineering, leading to award of both degrees at the completion of the joint program.
- Currently enrolled UCCS ME students only
- Transfer students must complete at least 24 credit hours in the Mechanical Engineering BS program before applying to the concurrent program.
- Students may apply after completing a minimum of 30 credit hours of the mechanical engineering core courses.
- Minimum cumulative G.P.A. of 3.25.

**MAE HONORS**

## PROGRAM OVERVIEW

### CURRICULUM

- Honors courses – take four
- MAE Seminar (MAE 4000)
  - 1 CH per term
  - Participate three terms out of five (3 CH)
  - Counts as a technical elective – aero minor
- Honors senior design project

### MEMBER BENEFITS

- Small classes
- Early registration
- Honors participation noted on transcript
- Scholarship possibilities

**MAE HONORS**

## PROGRAM OVERVIEW

### ADMISSION REQUIREMENTS

- Enrolled in MAE
- Minimum cumulative GPA of 3.5 for admission
- Must maintain cumulative GPA of 3.5

### ADMISSION PROCEDURE

- Application:
  - Honors program application form
  - Letter of recommendation
  - Personal statement
- Applications accepted at any time



**MAE HONORS**

**FALL COURSES**

- MAE 2103 – Engineering Mechanics I
- MAE 3401 – Modeling & Simulation
- MAE 4120 – Machine Design II
- MAE 4310 – Heat Transfer
- MAE 4510 – Engr Design I
- MAE Seminar – MAE 4000

**QUALIFIED & INTERESTED?**

FOR MORE INFORMATION EMAIL  
MAEADVIS@UCCS.EDU

**MAE HONORS**

**SPRING COURSES**

- MAE 2104 – Engineering Mechanics II
- MAE 2301 – Thermodynamics I
- MAE 3130 – Fluid Mechanics
- MAE 4421 – Controls
- MAE 4511 – Engr Design II

**QUALIFIED & INTERESTED?**

FOR MORE INFORMATION EMAIL  
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## UCCS GREEN ACTION FUND

- Every semester, YOU pay a \$5 **Green Action Fund Fee**
- Fees fund projects that support sustainability on campus
- **YOU** can propose a project and receive funding for that project
- Funded projects include:
  - Solar tables
  - UCCS greenhouse expansion
  - Hydration stations
  - Summit Village toilet retrofit
  - Bike repair station
- For more information:  
[www.uccs.edu/~gaf](http://www.uccs.edu/~gaf)



Solar Tables



Hydration Stations



Bike Repair Station

## American Society of Mechanical Engineers (ASME)

What is it

- Meet real Engineers
- Looks great on a resume!
- Engineering related activities
- Only \$25 per year for membership
  - Freshmen join free
  - Includes magazine, and access to other online resources



Contact: Alan Newcomer  
[anewcome@uccs.edu](mailto:anewcome@uccs.edu)

## Society of Automotive Engineers (SAE) UCCS Mini Baja

### What is it?

- Professional society for automotive engineers
- Design, build, and test an off-road vehicle
- Participate in regional and national competitions
- Only \$25 per year for membership
- Contact: saebaja@uccs.edu



Society of  
Women Engineers  
ASPIRE • ADVANCE • ACHIEVE

This group is an opportunity to network with other engineers through UCCS and in the professional field.

Past meetings: Resume Workshop, Northrop Grumman Breakfast, Speaker from Boecore

Men and Women are welcome to join!  
No additional Fee

More info at: <http://www.uccs.edu/~swe/>



If you are interested feel free to talk to any of our officers!

# AIAA

AMERICAN INSTITUTE OF AERONAUTICS & ASTRONAUTICS

Model Aviation and Rocketry  
Networking with Industry Professionals



## Design- Build- Fly Competition

Design R/C airplane to complete missions, competing against international teams



Develop design skills and problem solving

Use cutting edge tools, such as:  
CAD/CAM  
CNC  
Plasma Cutter  
Laser cutter