



┌

# Course Request for Fall 2021

Instructions for Rising Juniors in AOE

BRIAN KASTNER & EMILY METZGAR

March 2021



# Presentation Contents

1. Course Request Basics
2. Fall 2021 Timetable
3. AE: Typical Junior Fall Courses
4. OE: Typical Junior Fall Courses
5. Junior Fall FAQs
6. AOE Curriculum Resources
7. Further Questions...

# Course Request Basics

- Fall 2021 Course Request Dates:
  - March 23 - April 6
- Request courses at any point in this window:
  - No priority for early course request.
  - But...don't wait till the last minute!
- Changes can later be made during Add/Drop:
  - 4/23/20 - 5/28/20
  - 8/2/20 - 8/27/20

More Information From Engineering Education:

<https://enge.vt.edu/undergraduate/academicadvising/courseregistration.html>

# Fall 2021 Timetable

**Virginia Tech Timetable of Classes**

- Select Campus, Term, Subject, Section Type and optionally enter course number or CRN then press "Find".
- Limit your search with the course number to speed up download time.  
**Example:** MATH 1 will give you all 1xxx MATH sections. MATH 12 will give you all MATH 12xx sections, MATH 120 will give you all MATH 120x sections and MATH 1205 will give you only MATH 1205 sections.
- **Textbook ISBN and pricing information**

**Important Dates and Registration Information**  
(opens in a new window)

- [Academic Calendar](#)
- [View Exam Schedules](#)
- [Free Time and Lunch CRNs](#)
- [View Building Abbreviations](#)
- [Universal Access Campus Map](#)

**Prerequisite Checking Enforced during Registration!**  
[Participating Departments enforcing Prerequisite Checking](#)

<p><b>Campus</b></p> <p>Blackburg <input type="button" value="v"/></p> <p><small>On-Line Courses are listed under Virtual Campus</small></p> <p><b>Subject</b></p> <p>AOE - Aerospace and Ocean Engineering <input type="button" value="v"/></p> <p><b>Course Number</b></p> <p><input type="text"/></p> <p><small>(Optional)</small></p> <p><b>Course Modality</b></p> <p>ALL Modalities <input type="button" value="v"/></p> <p><small>(Optional)</small></p>	<p><b>Term</b></p> <p>Select Term</p> <p>Spring 2021</p> <p>Summer 2021</p> <p><b>Course Request Number (CRN)</b></p> <p><input type="text"/></p> <p><small>(Optional) - must be at least 3 digits</small></p>	<p><b>The Curriculum for Liberal Education Area or Pathway to General Education</b></p> <p>Show All Areas <input type="button" value="v"/> <sup>2</sup></p> <p><small>Previously known as Core Curriculum</small></p> <p><b>Section Type</b></p> <p>Show All Types <input type="button" value="v"/></p> <p><b>Display</b></p> <p>ALL Sections (FULL and OPEN) <input type="button" value="v"/> <sup>2</sup></p> <p>Comments: <input checked="" type="checkbox"/> <sup>2</sup></p>
---	--	---

- Once the Fall 2021 Timetable becomes available, go to [www.hokiespa.vt.edu](http://www.hokiespa.vt.edu) and select “Timetable of Classes” at the bottom of the page to access it.
- Find the CRNs for the courses you plan to request.
- Access course request through Hokie SPA.



# AE: Typical Junior Fall Courses

## Typical Junior Fall Courses

FALL SEMESTER THIRD YEAR	Credits
MATH 4564 <sup>(3)</sup> Operational Methods for Engineers <i>Pre: (2214 or 2214H) or 2406H or CMDA 2006</i>	3
AOE 3014 <sup>(3)</sup> Fluid Dynamics for Aerospace and Ocean Engineers <i>Pre: (2104 or 2204), ESM 2304, MATH 2214</i>	3 [F]
AOE 3034 <sup>(3)</sup> System Dynamics and Control <i>Pre: ESM 2304, (MATH 2214 or MATH 2214H)</i>	3 [F]
AOE 3124 <sup>(4)</sup> Aerospace Structures <i>Pre: 2024 or 3024</i>	3 [F,S]
AOE 3154 <sup>(4)</sup> Astromechanics <i>Pre: ESM 2304</i>	3 [F]
<b>TOTAL</b>	<b>15</b>

## Keep in Mind:

- AOE 3014 & AOE 3034 are prereqs for required Junior spring courses
- AOE 3154 is a prereq for Space Vehicle Dynamics
- We typically do not recommend adding additional courses to this schedule

# OE: Typical Junior Fall Courses

## Typical Junior Fall Courses

FALL SEMESTER THIRD YEAR		Credits
MATH 4564 <sup>(1)</sup> Operational Methods for Engineers <i>Pre: (2214 or 2214H) or 2406H or CMDA 2006</i>	3	
AOE 3014 <sup>(1)</sup> Fluid Dynamics for Aerospace and Ocean Engineers <i>Pre: (2104 or 2204), ESM 2304, MATH 2214</i>	3 [F]	
AOE 3034 <sup>(1)</sup> System Dynamics and Control <i>Pre: ESM 2304, (MATH 2214 or MATH 2214H)</i>	3 [F]	
AOE 3214 <sup>(4)</sup> Ocean Wave Mechanics <i>Co: 3014, MATH 4564</i>	3 [F]	
AOE 3224 <sup>(4)</sup> Ocean Structures <i>Pre: 2024</i>	3 [F]	
<b>TOTAL</b>	<b>15</b>	

## Keep in Mind:

- AOE 3014 & AOE 3034 are prereqs for required Junior spring courses
- AOE 3214 and AOE 3224 are prereqs for senior design
- We typically do not recommend adding additional courses to this schedule

# Junior Fall FAQs

# What should I do if I am taking Dynamics and/or Differential Equations at a community college this summer?

- You will not be able to course request AOE 3014 or AOE 3034. AE students need Dynamics as a prereq for AOE 3154.
- Still request your other courses.
- Once you finish your community college courses, submit your official transcript to the VT Registrar's Office.
- During end of summer add/drop, submit requests to be force-added to AOE courses using our online [AOE Force-Add Request Form](#). Attach a copy of your unofficial transcript showing completion of the course(s).



# What should I do if I still need to take Thin-Walled Structures (AOE 2024)?

- **AE:** Course request AOE 2024 for Fall 2020. You will need to take AOE 3124 in the spring.
- **OE:** Course request AOE 2024 for Fall 2020. AOE 3224 is not offered in the spring. You will need to ask your senior design professor if a prerequisite petition can be used to take AOE 3224 concurrently with AOE 4265 during Fall 2021. This is up to the professor.

# Do I have to take Operational Methods (MATH 4564) in Fall 2020?

- We suggest taking MATH 4564 in Fall 2020. But, it is also typically offered in the spring and summer. So, it could be taken during a different term.
- MATH 4564 is not a prerequisite for required Junior spring courses or senior design. It is a prerequisite for Applied Numerical Methods (AOE/MATH 4404) and for Boundary Layer & Heat Transfer (AOE 3044).

# What should I do if I am ahead (e.g. have already taken MATH 4564)?

- Check DARS to see if you have remaining Pathways requirements. If you do, this could be a good semester to add one.
- Consider adding AOE undergraduate research. This can count toward general technical elective credit.
- Get ahead with a track or general tech elective.

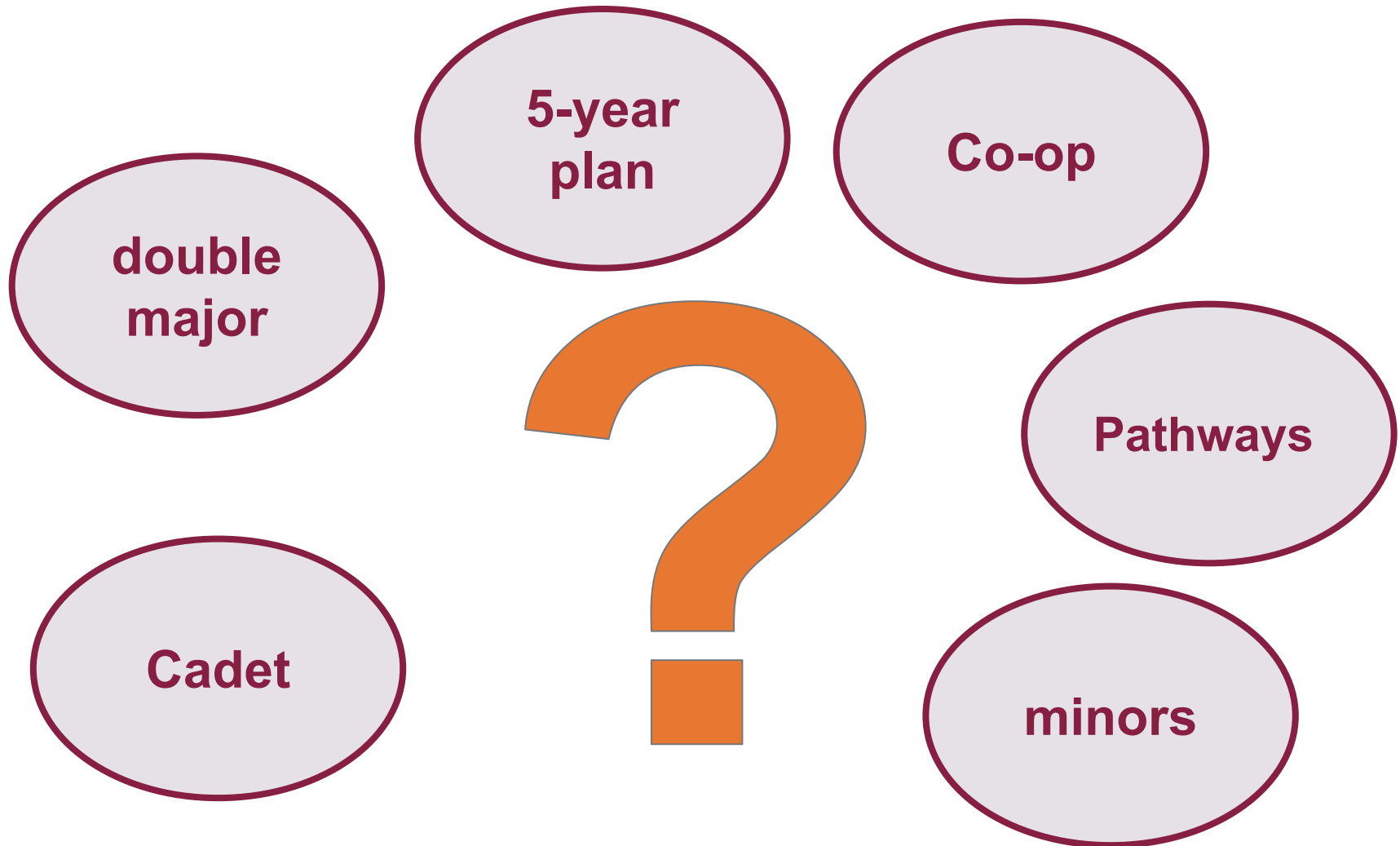
# AOE Curriculum Resources

- [Virginia Tech Timetable of Classes](#)
- [Undergraduate AOE Course Catalog](#)
- [AOE Future Planned Teaching Schedule](#)



COLLEGE OF ENGINEERING  
KEVIN T. CROFTON DEPARTMENT OF  
AEROSPACE AND OCEAN ENGINEERING  
VIRGINIA TECH.

# Other Factors Impacting Your Planning?





# Still Have Questions?

Contact Brian or Emily!

**Brian:** [briank4@vt.edu](mailto:briank4@vt.edu)

**Emily:** [emilymetzgar@vt.edu](mailto:emilymetzgar@vt.edu)

Schedule a Zoom appointment  
through [Navigate](#).