Course Request for Fall 2024

Instructions for Rising Juniors in AOE

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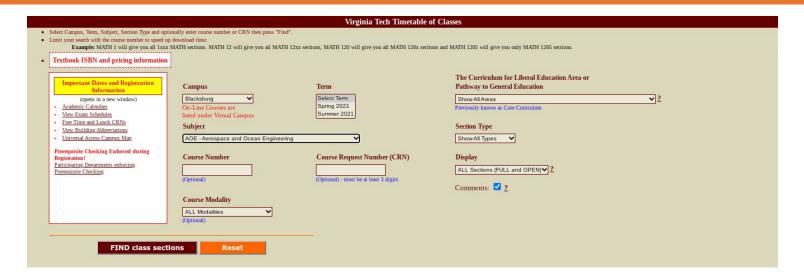
Course Request Basics

- Fall 2024 Course Request Dates:
 - March 19 April 2
- 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:
 - 4/19/24 5/24/24
 - 0 8/5/24 8/30/24

More Information From Engineering Education:

https://eng.vt.edu/academics/undergraduate-students/resources-support/course-registration.html

Fall 2024 Timetable



- Once the Fall 2024 Timetable becomes available, go to <u>www.hokiespa.vt.edu</u> 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 ⁽³⁾ Operational Methods for Engineers Pre: (2214 or 2214H) or 2406H or CMDA 2006	3
AOE 3014 ⁽³⁾ Fluid Dynamics for Aerospace and Ocean Engineers Pre: (2104 or 2204), ESM 2304, (MATH 2214 or MATH 2214H)	3 [5.5]
AOE 3034 ⁽³⁾ System Dynamics and Control Pre: ESM 2304, (MATH 2214 or MATH 2214H)	3 [5.5]
AOE 3124 ⁽⁴⁾ Aerospace Structures Pre: 2024 or 3024	3 [F,5]
AOE 3154 ⁽⁴⁾ Astromechanics Pre: ESM 2304	3 [F. S]
TOTAL	15

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 ⁽³⁾ Operational Methods for Engineers Pre: (2214 or 2214H) or 2406H or CMDA 2006	3
AOE 3014 ⁽³⁾ Fluid Dynamics for Aerospace and Ocean Engineers Pre: (2104 or 2204), ESM 2304, (MATH 2214 or MATH 2214H	3 [F, 5]
AOE 3034 ⁽³⁾ System Dynamics and Control Pre: ESM 2304, (MATH 2214 or MATH 2214H)	3 ^[F, S]
AOE 3214 ⁽⁴⁾ Ocean Wave Mechanics Co: 3014, MATH 4564	3 ^[F]
AOE 3224 ⁽⁴⁾ Ocean Structures Pre: 2024	3 ^[F]
TOTA	L 15

Keep in Mind:

- AOE 3014, AOE 3034 & AOE 3214 are prereqs for required Junior spring courses
- AOE 3224 is a prereq 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 different institution this summer?

- You will not be able to course request AOE 3014, AOE 3034 and/or AOE 3154 (for AE students).
- Still request your other courses.
- Follow the <u>proper steps</u> for taking courses elsewhere.
- Once you finish your summer 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 <u>AOE Force-Add</u> <u>Request Form</u>. Attach a copy of your unofficial transcript showing completion of the equivalent course(s) with a grade of C or higher.

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

- ➤ AE: Course request AOE 2024 for Fall 2024. You will need to take AOE 3124 in the spring.
- ➤ OE: Course request AOE 2024 for Fall 2024. 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 2024. This is up to the professor and not guaranteed.

Do I have to take Operational Methods (MATH 4564) in the fall?

- We suggest taking MATH 4564 in the fall semester. 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 any 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.
- Add AOE undergraduate research. This can count toward general technical elective credit.
- Get ahead with a track or general tech elective.
- Take 12 credits instead of 15 and have more time to focus on extracurricular activities.

In DARS my Pathways Concept 1 - Discourse (advanced) is incomplete. Do I need to add a specific course for this?

- No, you do NOT need to add an extra course for advanced discourse.
- ➤ The advanced discourse requirement is covered by a combination of AOE 3054 and senior design/experiments courses.
- As long as you complete all of the AE or OE major required courses, you will complete your advanced discourse requirement.

Are there any courses that I can take over the summer?

- The following courses are typically offered by VT over the summer. Equivalencies for these courses will NOT be found at other institutions.
 - MATH 4564 required course
 - STAT 4705 required for OE majors, math elective option for AE majors
 - MATH 4574 math elective option for AE majors
- Some CS technical elective options (e.g. CS-1114) and many Pathways courses are available at VT and/or other institutions over the summer.
- Be sure to follow the <u>proper steps</u> when taking courses elsewhere.

I entered AOE as a transfer student this academic year. Is there anything I should do differently from most rising juniors?

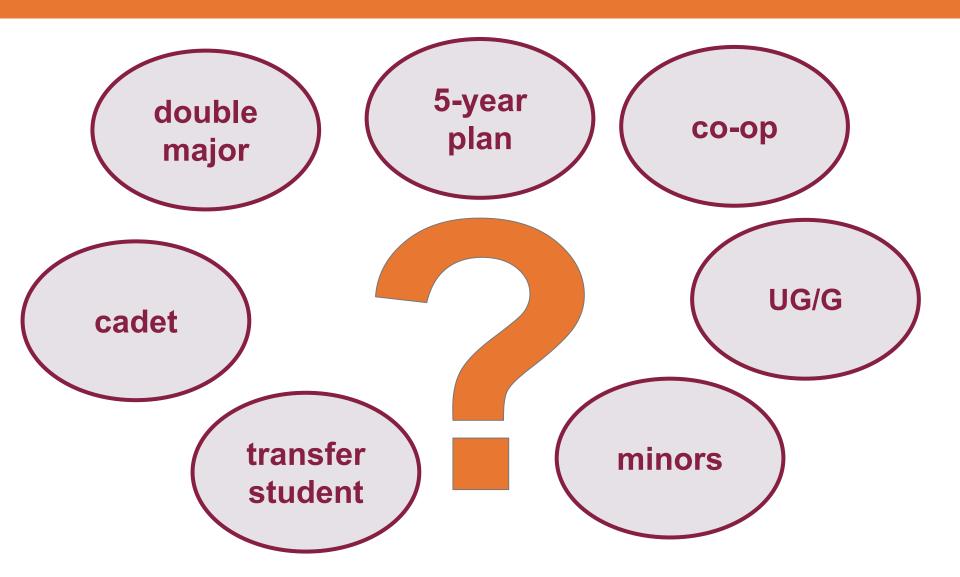
- You need to follow the 2023-2024 checksheet, which is slightly different from the checksheet that most rising juniors are following.
- You must complete a programming elective. And, your technical elective requirements are slightly different from students on earlier checksheets.
- Also, as a transfer student you may be ahead or behind with particular classes.
- We recommend that all transfer students on the 2023-2024 checksheet meet with an AOE advisor for individualized course request advising.

AOE Curriculum Resources

- AOE Undergraduate Curriculum Webpage
- Virginia Tech Timetable of Classes
- Undergraduate AOE Course Catalog



Other Factors Impacting Your Planning?



Still Have Questions?

Contact your advisor!

Emily Metzgar (last names A-G): emilymetzgar@vt.edu

Chelsea Nowak (last names H-Ri): cnowak@vt.edu

Brian Kastner (last names Ro-Z): briank4@vt.edu

Schedule an appointment through **Navigate**.