



Course Request for Spring 2025

Instructions for Sophomores in AOE

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October 2024



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Course Request Basics

- Spring 2025 Course Request Dates:
 - Oct. 22 - Nov. 5, 2024
- 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:
 - 12/2/24 - 1/27/25

More Information From Engineering Education:

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

Spring 2025 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>Campus</p> <p>Blacksburg ▼</p> <p><small>On-Line Courses are listed under Virtual Campus</small></p> <p>Subject</p> <p>AOE - Aerospace and Ocean Engineering ▼</p> <p>Course Number</p> <p><input type="text"/></p> <p><small>(Optional)</small></p> <p>Course Modality</p> <p>ALL Modalities ▼</p> <p><small>(Optional)</small></p>	<p>Term</p> <p>Select Term</p> <p>Spring 2021</p> <p>Summer 2021</p> <p>Course Request Number (CRN)</p> <p><input type="text"/></p> <p><small>(Optional) - must be at least 3 digits</small></p>	<p>The Curriculum for Liberal Education Area or Pathway to General Education</p> <p>Show All Areas ▼ 2</p> <p><small>Previously known as Core Curriculum</small></p> <p>Section Type</p> <p>Show All Types ▼</p> <p>Display</p> <p>ALL Sections (FULL and OPEN) ▼ 2</p> <p>Comments: <input checked="" type="checkbox"/> 2</p>
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FIND class sections **Reset**

- Once the Spring 2025 Timetable becomes available, go to 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 Sophomore Spring Courses

Typical Sophomore Spring Courses

SPRING SEMESTER SECOND YEAR	Credits
ESM 2304 ⁽³⁾ Dynamics <i>Pre: (2104 or 2114), (MATH 2204 or MATH 2204H), Co: MATH 2214</i>	3
MATH 2214 ⁽³⁾ Introduction to Differential Equations~ <i>Pre: (1114 or 2114 or 2114H or 2405H), 1226</i>	3
AOE 2024 ⁽³⁾ Thin-Walled Structures <i>Pre: ESM 2114 or (ESM 2104, ESM 2204), (MATH 2204 or 2204H); Co: MATH 2214</i>	3 ^(F, S)
PHYS 2306 ⁽³⁾ Foundations of Physics <i>Pre: MATH 1226, PHYS 2305</i>	4
Pathways 3 ⁽¹⁾ ECON 2005 Principles of Economics~	3
TOTAL	16

Keep in Mind:

- MATH 2214, ESM 2304 and/or AOE 2024 are prerequisites for all of the required junior fall courses.
- If you are a first semester transfer student, meet with your advisor because your spring schedule will probably be unique.

OE: Typical Sophomore Spring Courses

Typical Sophomore Spring Courses

SPRING SEMESTER SECOND YEAR	Credits
ESM 2304 ⁽³⁾ Dynamics <i>Pre: (2104 or 2114), (MATH 2204 or MATH 2204H), Co: MATH 2214</i>	3
MATH 2214 ⁽³⁾ Introduction to Differential Equations~ <i>Pre: (1114 or 2114 or 2114H or 2405H), 1226</i>	3
AOE 2024 ⁽³⁾ Thin-Walled Structures <i>Pre: ESM 2114 or (ESM 2104, ESM 2204), (MATH 2204 or 2204H); Co: MATH 2214</i>	3 ^(F, S)
PHYS 2306 ⁽³⁾ Foundations of Physics <i>Pre: MATH 1226, PHYS 2305</i>	4
Pathways ⁽¹⁾ 3 ECON 2005 Principles of Economics~	3
TOTAL	16

Keep in Mind:

- MATH 2214 and ESM 2304 are prerequisites for required junior fall courses.
- AOE 2024 is a prerequisite for AOE 3224, which must be taken in junior spring.
- If you are a first semester transfer student, meet with your advisor because your spring schedule will probably be unique.

Sophomore Spring FAQs

What should I do if I am missing courses typically taken during first-year?

- Missing first-year courses should be a priority. Try to fit these courses into spring semester.
- In the event that is not possible, you may look into summer offerings either through Virginia Tech or another institution.
- Please consult with your advisor to ensure the course from another institution is equivalent to the Virginia Tech course. See the COE guide to [Transferrable Credits From Other Universities](#).

What should I do if I don't complete ESM 2114 in Fall 2024?

- ESM 2114 is a prerequisite for ESM 2304 and AOE 2024. You will need to take ESM 2114 in Spring 2025 and complete ESM 2304 during Summer 2025.
- For an AE student, you can then take AOE 2024 in Fall 2025, which will subsequently move AOE 3124 to Spring 2026 and keep you on a 4-year plan.
- For an OE student, next year AOE 3224: Ocean Structures will be offered only in Spring 2026 (instead of Fall 2025). So, you can take AOE 2024 in Fall 2025 and take AOE 3224 in Spring 2026, remaining on a 4-year plan.

What should I do if I don't complete MATH 2204 in Fall 2024?

- MATH 2204 is a prerequisite for ESM 2304 and AOE 2024. You will need to take MATH 2204 in Spring 2025 and complete ESM 2304 during Summer 2025.
- For an AE student, you can then take AOE 2024 in Fall 2025, which will subsequently move AOE 3124 to Spring 2026 and keep you on a 4-year plan.
- For an OE student, next year AOE 3224: Ocean Structures will be offered only in Spring 2026 (instead of Fall 2025). So, you can take AOE 2024 in Fall 2025 and take AOE 3224 in Spring 2026, remaining on a 4-year plan.

What should I do if I don't complete MATH 2114 in Fall 2024?

- MATH 2114 is a prerequisite to MATH 2214. MATH 2214 will need to be completed before taking AOE 3014, 3034, and MATH 4564.
- To stay on a 4-year plan, complete MATH 2114 in Spring 2025 and MATH 2214 during Summer 2025.

What should I do if I don't complete AOE 2074 in Fall 2024?

- Take AOE 2074 in Spring 2025.
- While AOE 2074 is not a prerequisite for any required AOE courses, we recommend taking it as soon as possible. The content in this course will be beneficial for your future courses, and it may be challenging to find space for it in future semesters.

What should I do if I don't complete AOE 2054 in Fall 2024?

- AOE 2054 is not offered in spring.
- You must take it in Fall 2025 in order to stay on track for a 4-year graduation plan.
- To make space for AOE 2054 in your junior fall semester, you can move MATH 4564 to a different term.

What should I do if I don't complete AOE 2104 (AE majors) or AOE 2204 (OE majors) in Fall 2024?

- AOE 2104 or AOE 2204 must be completed as a prerequisite for AOE 3014: Fluid Dynamics.
- AE majors: You should take AOE 2104 in Spring 2025 to remain on track for a 4-year degree plan.
- OE majors: Unfortunately, AOE 2204 is not offered in spring. Your next opportunity to take it will be Fall 2025. This will put you on a 5-year degree plan. Meet with your academic advisor to discuss your plan and options.

I need to catch up with earlier courses, are there any typical sophomore spring courses that I can postpone?

- ECON 2005 is not a prerequisite for any required course. It would be fine to move this course to a future term.
- PHYS 2306 is not a prerequisite for any required course. It is fine to move this course to a future term, but it may get complicated trying to fit it around future AOE courses. If you can't take it this term, consider taking it during the summer.

What should I do if I am already done with some typical sophomore spring courses?

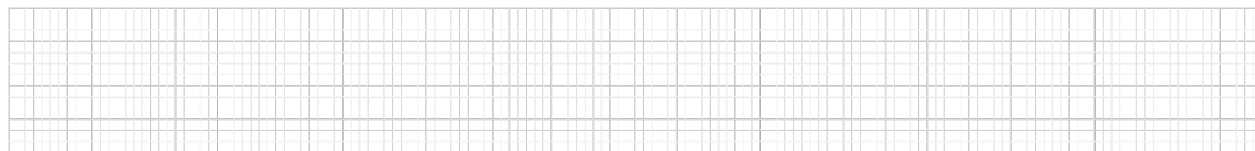
- If you have MATH 2214, you may take MATH 4564.
- If you have ESM 2304, you may take AOE 3154 (AE only).
- If you have MATH 2214 and ESM 2304, you may consider taking AOE 3014 and/or AOE 3034 early.
- OE students may consider taking GEOS 3034 early.
- Other courses to consider will be any remaining Pathways requirements or a track or general technical elective. Check prerequisites before selecting a track or technical elective.
- If you plan to do a minor, this may be a time to fit in minor courses.

Are there any track or general technical electives that I can take?

- Yes! If you are ahead, you can add a track or general tech elective, though you will have fewer options as a sophomore.
- Run a DARS to see if you have already fulfilled any track and/or general tech elective requirements.
- AOE options to consider include: AOE 2664, AOE 2114, AOE undergrad research (taken A-F)
- Non-AOE courses may be an option. Keep in mind that **you may only count 6 credits of non-AOE technical electives** (track & general tech combined).
- Consult your catalog program curriculum, checksheet and/or DARS report.
- When in doubt, contact your advisor!

Are there any courses I can take in the Winter Session?

- Typically no. You will not find AOE courses or math courses offered in the winter term.
- If you still need a Pathways course, many of these are offered in the Winter Session. Most are offered in online, asynchronous format.
- Statics (ESM 2104) is offered in Winter Session. In some special situations, a student may want to take this course if they do not earn credit for ESM 2114 during fall semester. The courses ESM 2104 & ESM 2204 can substitute for ESM 2114.



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.

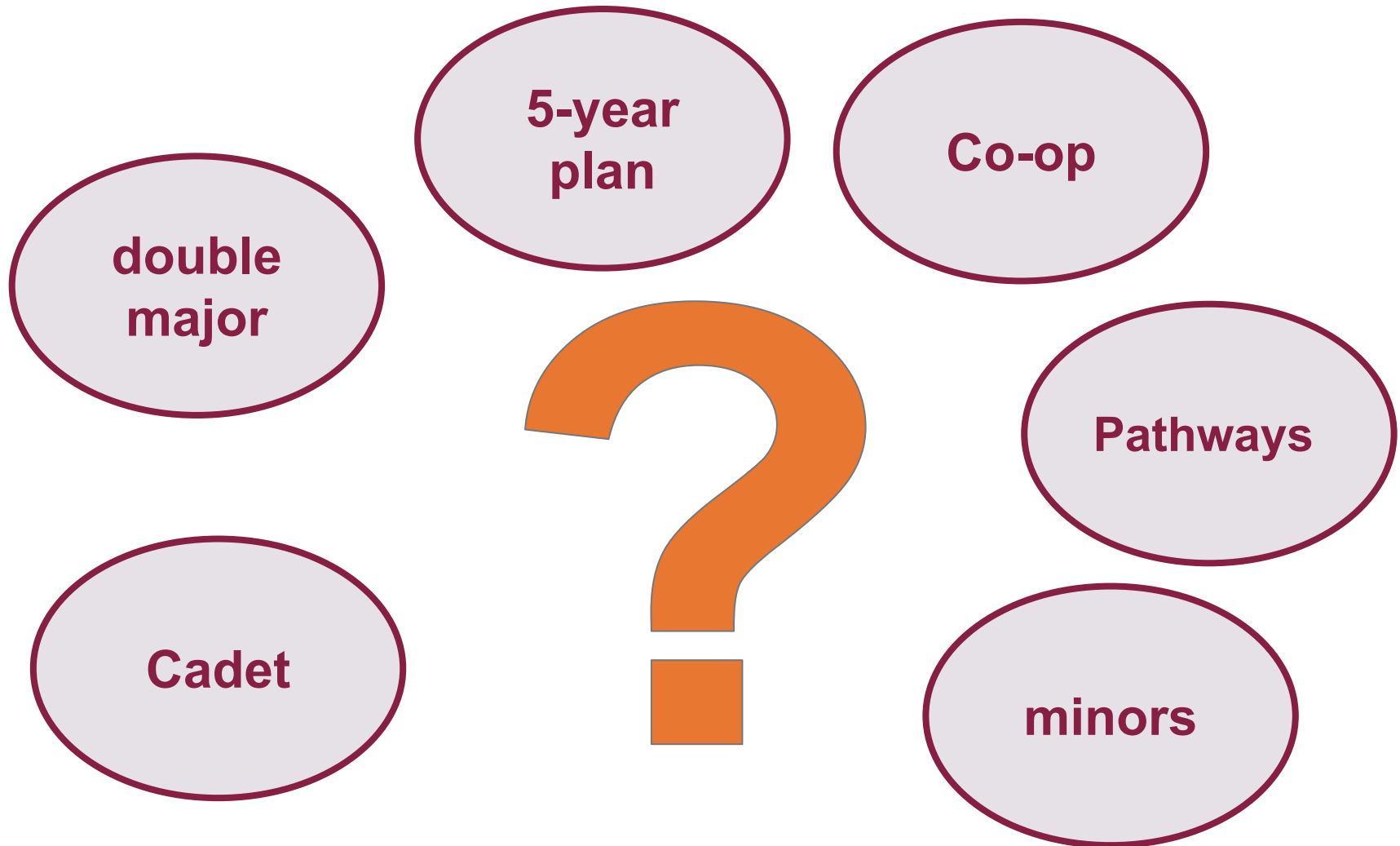
AOE Curriculum Resources

- [AOE Undergraduate Curriculum Webpage](#)
- [Virginia Tech Timetable of Classes](#)
- [Undergraduate AOE Course Catalog](#)



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

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](#).