Course Request for Fall 2022

Instructions for Rising Juniors in AOE

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March 2022
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Course Request Basics

- Fall 2022 Course Request Dates:
  - March 22 - April 5
- 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:
  - 4/22/22 - 5/27/22
  - 8/1/22 - 8/26/22

More Information From Engineering Education:

https://enge.vt.edu/undergraduate/academicadvising/courseregistration.html
● Once the Fall 2022 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

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

### 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
Typical Junior Fall Courses

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<tr>
<th>FALL SEMESTER THIRD YEAR</th>
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<tr>
<td>MATH 4564(^{(1)}) Operational Methods for Engineers&lt;br&gt;Pre: (2214 or 2214H) or 2406H or CMDA 2006</td>
<td>3</td>
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<tr>
<td>AOE 3014(^{(1)}) Fluid Dynamics for Aerospace and Ocean Engineers&lt;br&gt;Pre: (2104 or 2204), ESM 2304, MATH 2214</td>
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</tr>
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<td>AOE 3034(^{(1)}) System Dynamics and Control&lt;br&gt;Pre: ESM 2304, (MATH 2214 or MATH 2214H)</td>
<td>3 [H]</td>
</tr>
<tr>
<td>AOE 3214(^{(2)}) Ocean Wave Mechanics&lt;br&gt;Co: 3014, MATH 4564</td>
<td>3 [F]</td>
</tr>
<tr>
<td>AOE 3224(^{(2)}) Ocean Structures&lt;br&gt;Pre: 2024</td>
<td>3 [F]</td>
</tr>
<tr>
<td>TOTAL</td>
<td>15</td>
</tr>
</tbody>
</table>

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 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 proper steps 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 AOE Force-Add Request Form. 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 2022. You will need to take AOE 3124 in the spring.

➢ **OE:** Course request AOE 2024 for Fall 2022. 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 2023. 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 2022. 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.
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
➢ AOE Future Planned Teaching Schedule
Other Factors Impacting Your Planning?

- 5-year plan
- Co-op
- Pathways
- double major
- Cadet
- minors
Still Have Questions?

Contact Brian or Emily!

Brian: briank4@vt.edu
Emily: emilymetzgar@vt.edu

Schedule an appointment through Navigate.