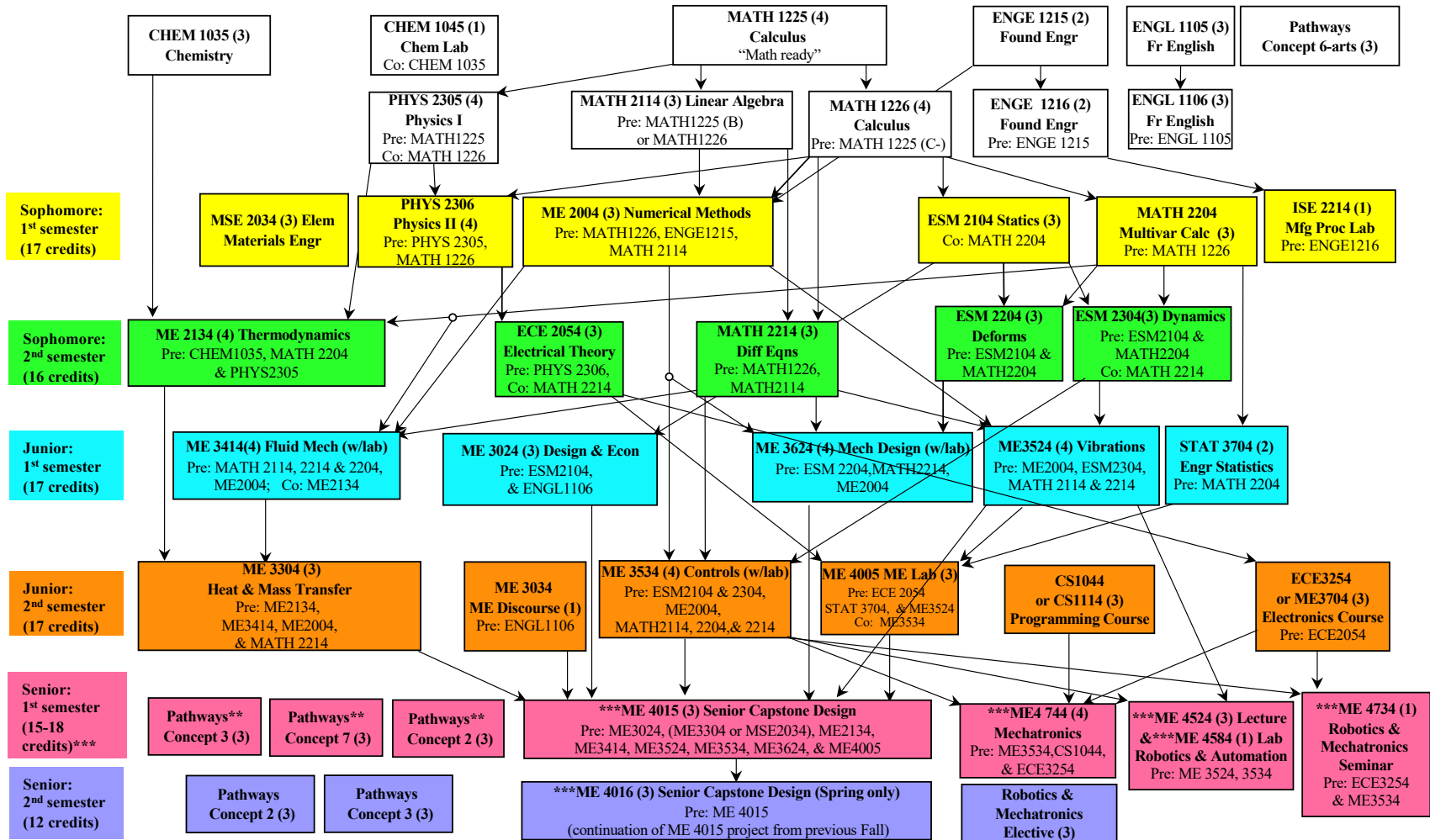


Still not sure about a major?
See: www.careercornerstone.org for help choosing an engineering or science major

B.S. in Mechanical Engineering – Robotics & Mechatronics Major¹ Co-op Plan (8 semesters of classes)

Revised January 2025. For more information, please see www.me.vt.edu. This is an unofficial planning tool only; please see the approved checksheets on the Registrar's website and the Undergraduate Catalog for official graduation requirements based on date of entry to Virginia Tech..



Notes:

Arrows denote prerequisites. Prerequisites of prerequisites must be met. Prerequisites may change with warning - see undergrad catalog for updates.

**Combine Pathways Concept 7 with Concept 2 or 3 to eliminate 3 credits.

***Senior courses are offered only once per year; ME4015 & ME4016 must be taken in order during the same academic year, beginning in Fall.

¹Assumes that classes with white fill have been completed before entering ME Department; adjust as necessary.

Satisfactory Progress Towards Degree (PTD) requirements: see ME website for more information, www.me.vt.edu.

Overall GPA	2.000 or higher (all courses taken at VT)
Classis In-Major GPA	2.000 or higher (all ME, NSEG courses) for students following 2023-24 or earlier checksheet; if no grades have been earned in ME or NSEG courses, must average 2.000 or higher on ESM courses until an ME/NSEG GPA exists
In-Major GPA	2.000 or higher (all ESM, ME, NSEG courses) for students following 2024-25 catalog or later catalog
All courses	Must pass within first 3 attempts including attempts ending in a W or WP grade
MATH2114, MATH2204, & ESM2104	Complete within 50 attempted required credits*
ME2004, ESM2304, MATH2214	Complete within 69 attempted required credits*
ME2134, ME3524, & (ME3624 or 3024)	Complete within 87 attempted required credits*
ME4015	Complete within 104 attempted required credits*
*Attempted required credits include all attempts required for the BSME degree showing up on a student's transcript including attempts ending in W or WP grades. The total does not include free electives, technical electives, or Pathways electives. Transfer courses used to cover a required course at VT count towards the attempted required credit total.	

Co-op schedule with first work term spring of second year			
Year	Fall	Spring	Summer
2	Work	Sophomore 1	Work
3	Sophomore 2	Work	Work
4	Junior 1	Junior 2	Open
5	Senior 1	Senior 2	

Co-op schedule with first work term spring of second year			
Year	Fall	Spring	Summer
2	Sophomore 1	Work	Work
3	Sophomore 2	Work	Work
4	Junior 1	Junior 2	Open
5	Senior 1	Senior 2	

Co-op schedule with first work term spring of second year			
Year	Fall	Spring	Summer
2	Sophomore 1	Sophomore 2	Work
3	Work	Junior 1	Work
4	Work	Junior 2	Open
5	Senior 1	Senior 2	

Co-op schedule with first work term spring of second year			
Year	Fall	Spring	Summer
2	Sophomore 1	Sophomore 2	
3	Junior 1	Work	Work
4	Work	Junior 2	Open
5	Senior 1	Senior 2	

Co-op Schedules with 8 Academic (School) Terms:

See the color-coded degree path sheet on the previous page for which courses should be taken in each term.

Note: Be sure to add any required (Pathways or CLE) humanities electives you have not completed. Note that “Junior 2” courses must be taken during a Spring semester or over the summer (not recommended).

Students gain 1+ years of engineering-related work experience while spreading out their courses into an additional semester. Median hourly rates for our co-op students were over \$19/hour in 2018. Some students also received housing allowances or free housing and overtime pay.

In general, co-op students who work multiple terms with the same employer tend to:

- earn a higher hourly rate compared to summer interns who work for a single term only,
- participate in longer-term, more complex projects than interns
- get a broader experience with a company than an intern, possibly rotating between departments or job functions, and
- have a job offer from their employer before they start their senior year

Employers expect all engineering students to have related work experience before they start a full-time job after graduation. Co-op students tend to get higher starting salaries and more job offers than students who do internships only or who have no work experience at all. It is typically easier to find a co-op job than a summer internship, especially for rising sophomores and rising juniors.

Students care more about how long it takes them to graduate and how high their grades are, but above a minimum GPA (sometimes as low as a 3.0), employers care more about prior work experience.

The ME advisors strongly encourage students to get work experience over the summer instead of taking classes. If the required course load is too heavy, then one of the co-op schedules to the left may be perfect for you!