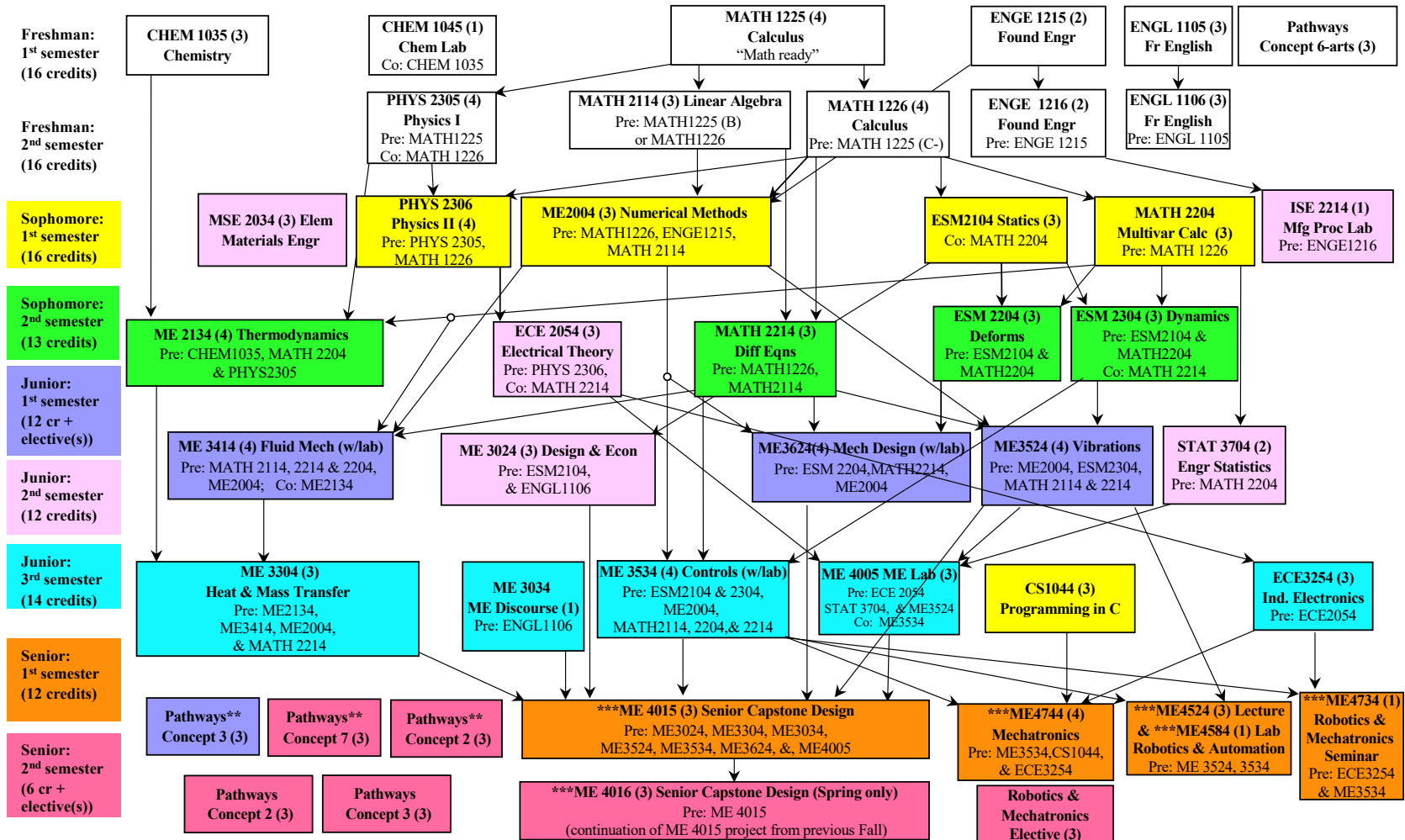


Still not sure about a major?  
See: [www.careercornerstone.org](http://www.careercornerstone.org) for help choosing an engineering or science major

## B.S. in Mechanical Engineering – Robotics & Mechatronics Major<sup>1</sup> Co-op Plan (9 semesters of classes)

*Revised Sept., 2023. For more information please see [www.me.vt.edu](http://www.me.vt.edu)  
This is an unofficial planning tool only; please see the approved checksheets on the Registrar's website for official graduation requirements.*



### Notes:

Arrows denote prerequisites. Prerequisites of prerequisites must be met.

Prerequisites may change without warning - see undergrad catalog for updates.

\*\*Combine Pathways Concept 7 with Concept 2 or 3 (or CLE Area 7 with CLE Area 2 or 3 if entered under CLE instead of Pathways) 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.

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

Continued enrollment requirements: see ME website for more information, [www.me.vt.edu](http://www.me.vt.edu).

<b>In-Major GPA</b>	2.000 minimum (All ME, NSEG courses); if no in-major GPA, average 2.000 or higher in ESM2104, 2204, & 2304.
<b>Overall GPA</b>	2.000 minimum (All VT courses)
<b>MATH2114, MATH2204, &amp; ESM2104</b>	Complete within 50 attempted required credits
<b>ME2004</b>	Complete within 2 semesters of entry into ME Department and complete within 69 attempted required credits
<b>MATH2214 &amp; ESM2304</b>	Complete within 69 attempted required credits
<b>ME2134</b>	Complete within 3 semesters of entry into ME Department and complete within 87 attempted required credits
<b>ME3254 &amp; (ME3624 or ME3024)</b>	Complete within 87 attempted required credits
<b>ME4015</b>	Complete within 104 attempted required credits

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

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

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

### **Co-op Schedules with 9 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 (humanities) electives you have not completed. Note that “Junior 3” 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!