Academy of Biotechnology Requirements

In addition to earning three credits in Next Generation Science Standards (NGSS) aligned science courses required for graduation, Academy members must also complete the following three, required credits during junior and senior year to complete the Biotechnology Program of Study:

- **Molecular Biotechnology, Double Period (Advanced) (2 credits)**
- **Special Topics in Biotechnology (Advanced) (1 credit)**

Below is a suggested course sequence for Academy of Biotechnology members*. Students are encouraged to take additional Honors and AP science electives.

Year	**Course(s)**	**Credit**
Grade 9	Honors Biology A/B**	1.0
Grade 10	Honors Chemistry A/B Honors Physics A/B**	1.0 1.0
Grade 11	**Molecular Biotechnology (Advanced), Double Period A/B*** **	2.0
Grade 12	**Special Topics in Biotechnology (Advanced) A/B**	1.0

* Suggested course sequence is pending MSDE approval.

**Students may elect to take two, NGSS science courses during either freshman or sophomore year, OR they may elect to take their third NGSS credit during junior year in conjunction with Molecular Biotechnology.
Note: any AP Science course can substitute for any of these courses.

***Molecular Biotechnology must be taken during **junior** year to ensure completion of the Biotechnology Program of Study. Also, it can provide 3 credits for BIOT 110 at Montgomery College, assisting in completing the General STEM pathway of MC^2