

## BIOLOGY MAJOR MOLECULAR BIOLOGY TRACK COURSE PLANNING GUIDE AND CHECKLIST

For a BS degree in the molecular track in biology at UAB, you must satisfactorily complete a minimum of 120 semester hours including the following:

**Biology** – a minimum Biology GPA of 2.0 and minimum of 40 semester hours including:

8 hours **Introductory Biology** BY 123\_\_\_\_\_

BY 124\_\_\_\_\_

3 hours of **Genetics**:

BY 210 \_\_\_\_\_

13 hours of molecular track requirements

BY 271\_\_\_\_\_

BY 311\_\_\_\_\_

BY 330\_\_\_\_\_

BY 434\_\_\_\_\_

12 hours of Electives selecting **at least 3** of the following 4 classes : BY 416, 431, 433, or 440 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4 hours from one of the following Capstone courses: BY 490, 491, 492, or 493 \_\_\_\_\_

**(Warning:** You cannot apply BY 101, 102, 107, 111, 112, 116, and 261 toward the biology major).

**Chemistry: General** CH 115\_\_\_\_\_

116 (lab)\_\_\_\_\_

CH 117\_\_\_\_\_

118 (lab)\_\_\_\_\_

**Organic** CH 235\_\_\_\_\_

236(lab)\_\_\_\_\_

CH 237\_\_\_\_\_

238(lab)\_\_\_\_\_

**Biochem** CH 460 or CH 461\_\_\_\_\_

**Mathematics** – You must complete **Calculus I** (MA 125). Take the math placement test to determine your initial math course. Preparatory math courses you need to enable you to take calculus will count as electives.

MA 125\_\_\_\_\_

**Physics** – You must complete *either* the Trig-based or Calculus-based series:

PH 201\_\_\_\_\_

PH 221\_\_\_\_\_

PH 202\_\_\_\_\_

PH 222 \_\_\_\_\_

**CORE CURRICULUM**

**AREA I.** English Composition (6 hours)

EH 101 \_\_\_\_\_  
EH 102 \_\_\_\_\_

**AREA II.** Humanities and Fine Arts (12 hrs)

(1 lit. from EH 216, 217, 218, 221, 222, 223, 224;  
1 arts: ARH 101,203,204,206, MU 120, THR 100,105,200;  
2 from lit.\*, arts, for lang., speech, phil., etc. from the  
AGSC approved list, see: [www.uab.edu/catalogs](http://www.uab.edu/catalogs))

EH \_\_\_\_\_  
Arts \_\_\_\_\_  
\*PHL \_\_\_\_\_  
\_\_\_\_\_

\* Must complete PHL 115 or PHL 116

**AREA III.** Science and Mathematics (this area is covered by your major)

**AREA IV.** History, Social & Behavioral Sciences (12 hrs)

(1–2 history\*: HY 101,102, 104,105,120,121,  
2–3 from AGSC approved list in areas of  
anth, econ, geog, poli sci, psych, soc, etc.)  
AGSC approved list, see: [www.uab.edu/catalogs](http://www.uab.edu/catalogs))

HY \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\*NOTE: Students must complete a 6–hr *sequence* in either literature or history.

**Electives** – Any additional courses (usually 12–27 hours) to reach the minimum total for graduation (**120hrs**).

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_____	_____	_____
_____	_____	_____
_____	_____	_____

**TOTAL SEMESTER HOURS FOR DEGREE: 120**

**MINIMUM OVERALL GPA: 2.0**