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 202
- PH 221
- 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)  
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  
HY__________________  

*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).  

TOTAL SEMESTER HOURS FOR DEGREE: 120  
MINIMUM OVERALL GPA: 2.0  

Updated: 7/23/2014