Molecular and Cell Biology Major – Worksheet

Last revised: November 2016

Student Name (print) _____ Student ID: _____ Date _____

****USE YOUR ACADEMIC REQUIREMENTS REPORT TO FILL OUT & UPDATE THIS WORKSHEET****

(In Student Admin, go to Student Center, select "Academic Requirements" from the drop-down menu, and click on expand all.)

I. University Requirements:

- ☐ Pass/Fail: No pass/fail courses can be used towards general ed., 45-credit, major, or related requirements.
- ☐ 8 Year Rule: Courses over eight years old are subject to review by the Dean.
- ☐ Content Area 1: Pass two courses taken in two different subject areas. ***Write in courses under CLAS Areas A-D on right.***
- ☐ Content Area 2: Pass two courses taken in two different subject areas.

  _____ _____
- ☐ Content Area 3: Pass two courses, including one four credit lab. Courses must be from two different depts. ***Circle courses under CLAS BS Content Area 3 Requirements on right.***
- ☐ Subject Area Restriction: Students must pass courses taken in six different subject areas from Content Areas One, Two and Three.
- ☐ Content Area 4: Students must pass two courses, one of which must address issues of diversity and/or multiculturalism outside the United States.

  _____ _____
- ☐ Overlap Restriction: At least one CA 4 course must not also be used toward CA 1, 2, or 3.
- ☐ Second Language Competency: (circle one)
  A. 3 years high school level, or
  B. 2 years high school level plus passing the 2nd year (Intermediate) UConn level, or
  C. Elementary and Intermediate levels at UConn, or
  D. Successful completion of language equiv. exam
- ☐ Writing Competency:

  Freshman English Requirement (circle course/s taken):
  ENGL 1010 or 1011 or 3800 or ENGL 91002 & 91003

  2000+ level W in [each] major: _____

  2nd W any level: _____
- ☐ Quantitative Competency: Students must pass two Q courses, one of which must be MATH or STAT. ***Write in courses under CLAS Q requirement on right.***
- ☐ Total units & GPA: (120 or more total credits/ 2.0 GPA)

  Total credits to date: _____ Current GPA: _____

II. CLAS Requirements:

- ☐ Intermediate Language: See Second Language Competency on left.
- ☐ Quantitative Competency: Students must pass a total of three Q courses, with one from MATH or STAT.

  _____ _____ _____
- ☐ Areas A-D (BS degree):
  Courses must be from at least 4 different academic units with at least one from each category A-D

  A: Arts _____

  B: Literature _____

  C: History _____

  D: Philosophy _____

BS Content Area 3 Requirements:

- ☐ Biology Requirement (circle below)
  BIOL 1107 or 1108 or 1110
- ☐ Chemistry Requirement (circle below)
  CHEM 1124Q & 1125Q & 1126Q
  or 1127Q & 1128Q
  or 1147Q & 1148Q
  or 1137Q & 1138Q
- ☐ Mathematics Requirement (circle below)
  MATH 1131Q & 1132Q
  or 1151Q & 1152Q
  or 2141Q & 2142Q
- ☐ Physics Requirement (circle below)
  PHYS 1201Q & 1202Q
  or 1401Q & 1402Q
  or 1501Q & 1502Q
  or 1601Q & 1602Q
- ☐ 45 Unit Rule: Students must earn a minimum of 45 units of 2000 level or higher courses.

  Note that you will need to earn at least 36 credits from 2000-level or higher courses for your major in order to fulfill your 24 credit group and 12 credits of Relateds).

  2000-level credits to date: _____

III. Molecular and Cell Biology Requirements:

Introductory Biology:

☐ BIOL 1107 Principles of Biology I (4 cr.)

MCB Core Courses: complete **all** of the following:

☐ MCB 2210 Cell Biology (3 cr.)
☐ MCB 2410 Genetics (3 cr.) **or** ☐ MCB 2400 Human Genetics (3 cr.)
☐ MCB 2610 Fundamentals of Microbiology (4 cr.)
☐ MCB 2000 Introduction to Biochemistry (4 cr.) **or** ☐ MCB 3010 Biochemistry (5 cr.)

Writing in the Major: complete at least **one** of the following:

☐ MCB 3022W Human Disease (3 cr.)
☐ MCB 3602W Bioinf. Tools Microb. Gen. Annot. (1 cr.)
☐ MCB 3841W Research and Literature in MCB (3 cr.)
☐ MCB 3996W Research Thesis in MCB (3 cr.)
☐ MCB 4026W Advanced Biochemistry Lab (4 cr.)
☐ MCB 4997W Honors Research Thesis in MCB (3 cr.)
☐ EEB 2244W General Ecology (4 cr.)
☐ EEB 2245W Evolutionary Biology (4 cr.)

Laboratory Requirement: complete at least **one** of the following:

☐ MCB 2225 Cell Biology Laboratory (4 cr.)
☐ MCB 3189 Clinical Research Lab (3 cr.)*
☐ MCB 3413 Concepts of Genetic Analysis (4 cr.)
☐ MCB 3633 Pathogenic Microbiology (4 cr.)
☐ MCB 3989 Introduction to Research (3 cr.)*
☐ MCB 4026W Advanced Biochem. Lab (4 cr.)
☐ MCB 4624 Experiments in Bacterial Genetics (3 cr.)
☐ MCB 4989 Introduction to Honors Research (3 cr.)*

*Three total credits required. May be repeated, but only 3 cr. of either course may count toward the 24 cr. of required MCB courses.

Organic Chemistry: complete **both** of the following:

☐ CHEM 2443 Organic Chemistry I (3 cr.)
☐ CHEM 2444 Organic Chemistry II (3 cr.)

24-Credit Group: Complete at least 24 credits of 2000-level or higher courses in MCB, of which at least 9 credits must be at the 3000-level or above**,** with an average GPA of 2.0 or higher. The 24-credit group includes courses from the MCB core, writing in the major, and laboratory requirements above. Students may apply no more than 3 independent study credits toward their 24-credit group.

___ credits in _____ ___ credits in _____ ___ credits in _____

___ credits in _____ ___ credits in _____ ___ credits in _____

___ credits in _____ ___ credits in _____ ___ credits in _____

Credits to date: _____

Current GPA: _____

Related Group: Complete at least 12 credits of 2000-level or higher related courses. Speak with your assigned advisor to determine which courses can count as Relateds. Includes CHEM 2443 and 2444 from above.

___ credits in _____ ___ credits in _____ ___ credits in _____

___ credits in _____ ___ credits in _____ ___ credits in _____

Credits to date: _____