

Genetics Undergraduate Program – Catalog 2016-2017

Degree: BS, Genetics, College of Liberal Arts and Sciences

I. University Requirements (13 credits)

- ___ ENGL 150 (3) & ENGL 250 (3)
- ___ LIB 160 (1)
- ___ Three credits International Perspectives*
- ___ Three credits US Diversity*

* These may dual count for college requirements

II. LAS College Requirements

- ___ Three years of 1 foreign language in high school or 4-8 credits
- ___ 12 credits in Humanities including 3 credits of Science/Humanities Bridge
- ___ 9 credits in Social Sciences

III. Advanced English Writing

- ___ One of ENGL 302 – 316 (3) or JLMC 347 (3)

IV. Mathematical Sciences (11-12 credits)

- ___ STAT 101(4) or STAT 104 (3)
- ___ MATH 160 (4), MATH 165 (4), or MATH 181 (4)
- ___ one of STAT 301 (4), STAT 401 (4), MATH 166 (4) or MATH 182 (4)

V. Physical and Chemical Sciences

General Chemistry (9 credits)

- ___ CHEM 177 (4) & CHEM 177L (1)
- ___ CHEM 178 (3) & CHEM 178L (1)

Organic Chemistry (8 credits)

- ___ CHEM 331 (3) & CHEM 331L (1)
- ___ CHEM 332 (3) & CHEM 332L (1)

Biochemistry (6 - 7 credits)

- ___ BBMB 404 (3) or BBMB 420 (3)
- ___ BBMB 405 (3) (not with 420) or BBMB 411 (3) or CHEM 211 & 211L (4) or CHEM 325 (3)

Physics (10 credits)

- ___ PHYS 111 (5) or PHYS 221 (5)
- ___ PHYS 112 (5) or PHYS 222 (5)

VI. Life Sciences Core (19 credits, min C-)

- ___ GEN 110 (1) *fall only*
- ___ BIOL 211(3) & BIOL 211L (1)
- ___ BIOL 212 (3) & BIOL 212L (1)
- ___ GEN/BIOL 313 (3) & GEN/BIOL 313L (1)
- ___ BIOL 314 (3)
- ___ BIOL 315 (3)

VII. Genetics Core & Advanced Science Electives (22 credits, min C-)

- ___ GEN 409 (3)
- ___ GEN 410 (3)
- ___ GEN 322 (3) *fall*, or GEN 349 (3) *spring*, or GEN 444 (3) *spring*
- ___ GEN 462 (3) *fall* or EEOB 561 (3) *spring* or EEOB 563 (3) *spring*
- ___ GEN 491 (1)
- ___ MICRO 302 (3)

Advanced Science Electives (6 credits total)

These cannot be used elsewhere in the major

- ___ One of AGRON/HORT 421 or ANS 352
- ___ ANS 331, 332, 333, 345
- ___ ANTHR 307, 319, 424
- ___ BBMB numbered 400 or above
- ___ BIOL numbered 300 or above, except 307, 355, 356, 366, 393A, 393B, 491, 495, 498
- ___ CHEM 211 & 211L, CHEM numbered 300 or above
- ___ EEOB 562, 563, 566, 567
- ___ GEN 340 (3), 444 (3), 490-499 (1-6 cr)
- ___ GDCB except 508, 511
- ___ MICRO numbered 300 or above
- ___ PHYS 461
- ___ PSYCH 310
- ___ STAT 301, 401, 402, 403

VIII. Electives (Additional Courses to obtain 120 credits) 0 - 3 credits

The number of elective credits varies depending on course selections including courses that dual count.

This is an unofficial checklist for the Genetics Major developed to assist in planning your courses. Your degree audit remains the official record of the requirements. For additional information see your Academic Advisor. Prepared by Lois Girton, Genetics Advising Coordinator, lgirton@iastate.edu; 294-1606. May 2016