

OSU BIOLOGY PROGRAM ADVISING CHECKLIST (2008-2009)

STUDENT NAME _____
 STUDENT ID # _____
 DATE _____ Career Goal _____
 Other Minor, Option, Major, etc. _____
 Honors College? International Degree?

OSU GRADUATION REQUIREMENTS (180 cr.)

In addition to completing the Baccalaureate Core and Biology Core courses on this checklist, you must also do the following to graduate.

- File for graduation with the OSU Registrar (3 terms before)
- Take the Biology Major Field Test (BI 499 on this checklist)
- 180 total credits (**Checklist courses total less than 180 cr**)
- 60 or more upper division credits (300-400 level courses)
- 45 of the last 75 credits must be taken at OSU
- No more than 11 credits of PAC courses allowed in 180 cr
- 2.0 **average** GPA & no S/U grades in major courses
- 2 yrs. of high school foreign language **OR** 2 college terms
- No double majors in Zoology or General Science allowed

BACCALAUREATE CORE (48 credits + WIC)

Approved Bacc Core courses are listed in the *Registration Handbook*, *General Catalog* and at <http://catalog.oregonstate.edu/bcc.aspx>.

Skills Courses (15 cr + WIC):

- Writing I (3cr) (A-G Fall, H-N Wint., O-Z Spr.) WR 121
- Writing II (3cr) _____
- Writing III (3cr) _____
- Math (3-4 cr) (e.g. MTH 111, 112) (fulfilled below)
- Fitness (2cr) HHS 231 **or** NFM 232 _____
- Fitness Lab (1cr) (**No PAC classes allowed**) _____
- Writing Intensive Course (WIC) (3cr) (fulfilled below)

Perspectives Courses (27 cr):

No more than two courses from any one department may be used to satisfy the Perspectives category.

- Physical Science (with lab) (4cr) (fulfilled below)
- Biological Science (with lab) (4cr) (fulfilled below)
- Second Phys or Biol Sci (with lab)(4cr) (fulfilled below)
- Western Culture (3cr) _____
- Cultural Diversity (3cr) _____
- Literature and the Arts (3cr) _____
- Social Processes and Institutions (3cr) _____

Difference Power and Discrimination Course (3 cr):

- Difference, Power, and Discrimination (3cr) _____

Synthesis Courses (6 cr):

These courses should be taken junior or senior year. Courses used to fulfill the Synthesis requirements may **not** be in the same department.

- Contemporary Global Issues (3cr) _____
- Science, Technology, and Society (3cr) (fulfilled below)

BIOLOGY CORE (110-116 credits)

* Biology Core courses may not be taken on an S/U graded basis.

* No Biology Core courses may be substituted without office approval!

- Biology Freshman Seminar (1cr) BI 198
- Principles of Biology (12cr) BI 211, 212, 213
- General Chemistry (15cr) CH 221, 222, 223 (preferred)
OR CH 121, 122, 123
- Math - Calculus (4cr) MTH 251
- Math - Calculus (4cr) MTH 252 **OR** MTH 268
- Organic Chemistry (12cr) CH 331, 332, 337
- General Physics (15cr) PH 201, 202, 203

- Ecology (3cr) BI 370
- Cell Biology (4-5cr) BI 314 **OR** BI 460 **and** 461
- Genetics (4cr) BI 311
- Organismal Biology, choose one of the following:
 - BI 358 Symbiosis & the Environment (3cr)
 - BOT 313 Plant Structure (4 cr)
 - BOT 321 Introduction to Plant Systematics (4cr)
 - BOT 416 Aquatic Botany (4cr)
 - BOT 461 Introductory Mycology (4cr)
 - MB 480 Parasitology (3 cr)
 - Z 361 **AND** 362 Invertebrate Biology (5cr)
 - Z 365 Biology of Insects (4cr)
 - Z 371 **AND** 372 Vertebrate Biology (5cr)
 - Z 422 Comparative Anatomy (5 cr)
 - Z 477 Aquatic Entomology (4cr)
- General Biochemistry (7cr) BB 450, 451
- Introduction to Statistical Methods (8cr) ST 351, ST 352
- Gen. Microbiology and Lab (5 cr) MB 302 **AND** MB 303
- Physiology, choose one of the following:
 - BOT 331 Plant Physiology (4cr)
 - BOT 488 Env. Physiology of Plants (3cr)
 - Z 423 Environmental Physiology (4cr)
 - Z 425 Embryology and Development (5cr)
 - Z 430 Principles of Physiology (4cr)
 - Z 431 Vertebrate Physiology (4cr)
 - Z 432 Vertebrate Physiology (4cr)
- History of Science (4cr), choose one of the following, **which ALSO counts as Bacc. Core Science, Technology and Society AND a Writing Intensive Course (WIC)**:
 - HSTS 415 Theory of Evolution and Modern Biology
 - HSTS 417 History of Medicine
 - HSTS 425 History of Life Sciences
- Evolution (3cr) BI 445
- 2 Additional 3-5 credit, Upper Division (300-400), College of Science courses **NOT** used for the Biology requirements above and meeting the stipulations below:
 - Allowed:** Science courses offered by departments in the College of Science (BB, BI, BOT, CHEM, GEO, ENSC, MB, MTH, PH, ST, & Z). College of Science courses taken for double major, option, or minor. Contemporary Global Issues courses meeting the requirements above.
 - Excluded:** Blanket numbered courses from the departments above (e.g. 309, 401, 405, 406, 407, 409, 410). Courses from the Z331-333 & Z341-343 series. Any of the following: Z 345, BB 350, BB 490 series.
 - Course _____ cr
 - Course _____ cr
- BI 499 ST/Senior Biology Major Field Test
 - Summer graduates must complete the test spring term, and all others take it their final OSU term.** Test scores are for program assessment purposes only. Completion of the two-hour test will result in meeting the test requirement regardless of score, and scores will not be listed on transcripts or posted. Registration for the exam is completed online using the course number and title above. Students who foresee difficulties in meeting this requirement their final term must contact the Biology Program Office early in the prior term.

BIOLOGY STUDENT RESOURCES

Biology Program Office - Cordley 2042

- **Registration Coordinator - Trudy Powell** - 737-2993 or trudy.powell@oregonstate.edu
- **Biology Program Website** <http://biology.science.oregonstate.edu/> and **Listserve** <http://www.science.oregonstate.edu/node/125>

Biology Advising

- **Transfer Students and Students Changing Majors:** All must meet with Brock once (see below).
- **Freshmen and Sophomores:** Make an appointment at <http://biology.science.oregonstate.edu/preparing-advising-appointment>
A-N Brock McLeod, 2042 Cordley, 737-2245, mcleodb@science.oregonstate.edu
O-Z Shawna Harvey, 2046 Cordley, 737-2404, shawna.harvey@orst.edu
- **Juniors and Seniors:** Juniors (and some other students) are assigned a faculty advisor after meeting with Shawna or Brock. If you do not know who your advisor is, contact Trudy Powell, 2042 Cordley, 737-2993, trudy.powell@oregonstate.edu.

OSU Information

- **OSU Website** <http://oregonstate.edu/> and **Campus Information (737-0123)**

BIOLOGY FOUR YEAR PLANS

- **Courses are listed in order of priority.** Students planning to finish in four year should take 15 or 16 credits a term.
- **Pre-health profession student** schedules may vary. See checklists <http://biology.science.oregonstate.edu/checklists-and-bulletin>.
- **Foreign language sequences and other issues** can change the courses below – talk to an advisor.
- **OSU math sequences for Biology students:** MTH 102 (or 065), 103 (or 095), 111, 112, 251, 252 (or MTH 268)
- **Tracks I and II** are for students who placed in MTH 111 or higher. **Track I** is generally for students who have completed math or have only MTH 252 remaining by sophomore year. The advantage is finishing physics and the other series courses sophomore year which can be important for study abroad and other interests. **Track II** is generally for students with two or more math courses remaining in sophomore year. The advantage is that students can take more biology courses sophomore year, but the disadvantage is taking physics in the junior (or senior) year.
- **Track III** is generally for students who place in MTH 102 (065) or 103 (095). The disadvantage is pushing series coursework to later years, but it allows students to address math and chemistry deficiencies in the first year while still finishing in four years.

Freshman Tracks I and II

- BI 198 Fall Term
- BI 211, 212, 213
- CH 221, 222, 223 (OR 121, 122, 123)
- MTH 111 or higher generally starting winter term
- 1 Baccalaureate Core (Bacc. Core) course a quarter

Track I **Sophomore**

- CH 331, 332, 337
- PH 201, 202, 203
- 1 Bacc. Core Course a quarter
- Finish MTH then 1 BI course a quarter in this order: BI 370/BI 314/BI 311/Organismal Biol.

Junior

- BB 450, 451
- ST 351, 352
- 1 Bacc. Core a term until finished
- Add BI course(s) not taken sophomore year, then MB 302 & 303/Physiology/HSTS

Senior

- BI course(s) not taken junior year
- BI 445
- 2 upper division elective courses
- Complete coursework totaling 180/60 upper div. credits
- BI 499/ST Senior Biology Major Field Test – Taken last OSU term

Track II **Sophomore**

- CH 331, 332, 337
- 1 Bacc. Core Course a quarter
- Finish MTH, then fill in with BI courses in this order: BI 370/BI 314/BI 311/Organismal Biol.

Junior

- PH 201, 202, 203
- BB 450, 451
- ST 351, 352 (can be taken Sr. year)
- 1 Bacc. Core a term until finished
- Add BI course(s) not taken sophomore year, then MB 302 & 303/Physiology/HSTS

Senior

- BI courses not taken junior year
- BI 445
- 2 upper division elective courses
- Complete coursework totaling 180/60 upper div. credits
- BI 499/ST Senior Biology Major Field Test – Taken last OSU term

Track III **Freshman**

- BI 198 Fall Term
- Take MTH beginning fall term
- CH 221, 222, 223 (OR 121, 122, 123)
- 2 Bacc. Core courses each quarter

Sophomore

- BI 211, 212, 213
- CH 321, 322, 337
- 1 Bacc. Core course a quarter
- Finish MTH course then fill in with more Bacc. Core.

Junior

- PH 201, 202, 203 OR ST 351, 352
- BB 450, 451
- Fill in with BI courses in this order: BI 370, 314, 311, Organismal Biol.
- 1 Bacc. Core a term until finished

Senior

- ST 351, 352 OR PH 201, 202, 203
- Complete BI courses not taken Jr. year
- Take MB 302 & 303/Physiology/HSTS/BI 445
- 2 upper division elective courses
- Complete coursework totaling 180/60 upper div. credits
- BI 499/ST Senior Biology Major Field Test – Taken last OSU term