



# University of Hawai'i at Mānoa - Four-Year Academic Plan 2012-2013

## Colleges of Arts and Sciences

### Bachelor of Science (BS) in Botany

This is a sample academic plan. Students should meet with an academic advisor prior to registration to formulate their own plan.

Year 1	Year 2	Year 3	Year 4
<b>Fall</b>	<b>Fall</b>	<b>Fall</b>	<b>Fall</b>
BOT 100 1	NI BOT 200 1	NI BOT 300 1	NI BOT 462 3
BIOL 171 (DB) 3	NI BOT 201 3	NI BOT 301 3	NI Group 1 3
BIOL 171L (DY) 1	NI BOT 201L 1	NI BOT 301L 1	NI BIOL 375 3
CHEM 161 (DP) 3	NI CHEM 272 3	NI BOT 302 2	NI BIOL 375L 2
CHEM 161L 1	NI CHEM 272L 2	PHYS 152 3	BOT Elective 3
FW 3	NI MATH 216 3	PHYS 152L 1	DS 3
FG (A/B/C) 3	HSL 101 3	NI HSL 201 3	
Credits 15	Credits 16	Credits 14	Credits 17
<b>Spring</b>	<b>Spring</b>	<b>Spring</b>	<b>Spring</b>
BOT 101 3	NI BOT 202 3	NI BIOL 275 3	NI BOT 400 1
BOT 101L 1	NI BOT 202L 1	NI BIOL 275L 1	NI BOT 420 3
CHEM 162 3	NI BOT 203 5	DA/DH/DL 3	NI BOT 420L 1
CHEM 162L 1	NI PHYS 151 3	DA/DH/DL 3	NI Group 1 3
NI MATH 215 (FS) 4	PHYS 151L 1	NI HSL 202 3	Group 2 4
FG (A/B/C) 3	HSL 102 3	DS 3	BOT Elective 3
Credits 15	Credits 16	Credits 16	Credits 15
<b>Summer</b>	<b>Summer</b>	<b>Summer</b>	<b>Summer</b>
Credits 0	Credits 0	Credits 0	Credits 0
<b>Total Credits 30</b>	<b>Total Credits 62</b>	<b>Total Credits 92</b>	<b>Total Credits 124</b>

**Notes:**

- Students must take placement exams to be able to register for CHEM 161 and MATH 215 or 241.
- Students must incorporate all focus requirements into this plan.
- 60 non-introductory credits are required for A&S Natural Sciences majors.

## **Botany Major Requirements**

**Group 1** (two courses): BOT 401, 450, or 499

**Group 2** (one course): BOT 430/430L, 461, or 480

**Group 3:** any of the following courses to fulfill the minimum 55 credits of BOT and BIOL courses: BOT 350, 430/430L, 444, 453, 454, 456, 461, 480

Approved substitutions for the calculus and physics requirement:

MATH 215 (Calculus I requirement): MATH 241 or 251

MATH 216 (Calculus II requirement): MATH 242 or 252

PHYS 151/151L (Physics I requirement): PHYS 170/170L

PHYS 152/152L (Physics II requirement): PHYS 272/272L

Students must earn a grade of C (not C-) or higher in each course applied to the major, including the required courses in chemistry, physics, and math cc