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| UHM General Education Core Requirements |
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| Foundations |
| * FW ENG 100, 100A, 190, ESL 100, or AMST 111 |
| * FQ\* MATH 215, 241, or 252A |
| * FG (A / B / C) |
| * FG (A / B / C) |
| *\*Note: This requirement changed in Fall 2018. If you entered the UH System prior to that, please see your college/school advisor.* |
| Diversification |
| * DA / DH / DL |
| * DA / DH / DL |
| * DB BIOL 171, BOT 101 |
| * DP CHEM 161 |
| * DY BIOL 171L, BOT 101L, CHEM 161L |
| * DS |
| * DS |
| *\* See degree, college and major requirements for courses that can also fulfill these.* |
| **UHM Graduation Requirements** |
|  |
| Focus |
| * H |
| * E (300+) |
| * O (300+) |
|  |
| * W |
| * W |
| * W |
| * W (300+) |
| * W (300+) |
|  |
| Hawaiian / Second Language |
| * 101 |
| * 102 |
| * 201 |
| * 202 |
|  |
| **Credit Minimums** |
| * 120 total applicable |
| * 30 in residence at UHM |
| * 35 major-required lower division/25 upper division (300+ level) credits |
| **Grade Point Average** |
| * 2.0 cumulative or higher *(Note: Other GPAs may be required.)* |
| * Good academic standing |

*This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements. Meet regularly with your major advisor.*

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| Degree Requirements |
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| **Bachelor of Science Requirements** |
| * Calculus I |
| * Calculus II |
| * Chemistry I with lab |
| * Chemistry II with lab |
| * Physics I with lab |
| * Physics II with lab |
| *Refer to major requirements for the specific courses that satisfy these requirements.* |
| **College Requirements** |
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| **Credit Maximums** |
| * 8 KRS activity |
| * 9 Directed Reading / Research |
| * 12 Practicum / Internship |
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| **Major Requirements for BS in Botany** |
| Admission: Open |
| Application: NA |
| Min. major credits: 48 (76-78 with related requirements) |
| Min. C grade (not C-) in all courses |
|  |
| **Requirements** |
| **Seminars (4 credits)** |
| ❑ BOT 100  *(Fall only)* |
| ❑ BOT 200 *(Fall only)* |
| ❑ BOT 300/SUST 310 *(Fall only)* |
| ❑ BOT 400 *(Spring only)* |
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| **Botany and Biology Requirements (29 credits)** |
| ❑ BOT 101\*DB/ ❑ 101L\*DY *(Spring only)* |
| ❑ BOT 201 / ❑ 201L *(Fall only)* |
| ❑ BOT 305/BIOL 305 |
| ❑ BOT 420 *(Spring only)* |
| ❑ BIOL 171\*DB / 171L\*DY |
| ❑ BIOL 275 / 275L |
| ❑ BIOL 375 / 375L |
|  |
| **Botany Elective Courses (Minimum 15 credits)** |
| ❑ At least one of Group 1: Systematics & Evolution  BOT 430/430L, 461, 480, or BIOL 470 |
| ❑ At least one of Group 2: Ecology, Conservation, & Natural History  BOT 301/301L, 303, 310, 350, 440, 444/SUST 445, 450, 456, or SUST 313/313L |
| ❑ Other electives from the categories above or below to reach the required number of elective credits:  Ethnobotany:BOT 442, 444/SUST 445, or 446/SUST 446  Miscellaneous electives: BIOL 499 |
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| **Other Required Courses (28-30 credits)** |
| ❑ CHEM 161\*DP/161L\*DY |
| ❑ CHEM 162 /162L |
| ❑ CHEM 272 /272L |
| ❑ PHYS 151\*DP/151L\*DY or 170\*DP/170L\*DY |
| ❑ PHYS 152\*DP/152L\*DY or 272\*DP/272L\*DY |
| ❑ MATH 215\*FQ or 241\*FQ or 251A\*FQ |
| ❑ MATH 216 or 242 or 252A |
|  |
| **Notes** |
| Student Academic Success Center; Sinclair 301; (808) 956-5911; cnsadvis@hawaii.edu; natsci.manoa.hawaii.edu/sasc  School of Life Sciences: Edmondson 216; (808) 956-8303; lifesci@hawaii.edu; manoa.hawaii.edu/ lifesciences |

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