



**University of Hawai'i at Mānoa**  
**College of Tropical Agriculture and Human Resources Program Sheet 2016-2017**  
**Bachelor of Science (BS) in Tropical Plant and Soil Sciences**  
**Specialization: Genetics and Physiology**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (114 in core & major + 6 in electives)**

| UHM General Education Core Requirements  |
|--|
| <b>Foundations</b>   |
| <input type="checkbox"/> FW ENG 100, 100A, 190, ESL 100, or AMST 111   |
| <input type="checkbox"/> FS MATH 140 or NREM 203   |
| <input type="checkbox"/> FG (A / B / C)  |
| <input type="checkbox"/> FG (A / B / C)  |
| <b>Diversification</b>   |
| <input type="checkbox"/> DA / DH / DL  |
| <input type="checkbox"/> DA / DH / DL  |
| <input type="checkbox"/> DB TPSS 200   |
| <input type="checkbox"/> DP CHEM 161   |
| <input type="checkbox"/> DY CHEM 161L  |
| <input type="checkbox"/> DS  |
| <input type="checkbox"/> DS  |
| <i>* See degree, college and major requirements for courses that can also fulfill these.</i>   |
| UHM Graduation Requirements  |
| <b>Focus</b>   |
| <input type="checkbox"/> H   |
| <input type="checkbox"/> E (300+)  |
| <input type="checkbox"/> O (300+)  |
| <input type="checkbox"/> W TPSS 200  |
| <input type="checkbox"/> W   |
| <input type="checkbox"/> W   |
| <input type="checkbox"/> W (300+) TPSS 492L  |
| <input type="checkbox"/> W (300+) PEPS 421   |
| <b>Hawaiian / Second Language Alternative</b>  |
| <ul style="list-style-type: none"> <li>Any four-course combination of language, and/or TPSS and/or PEPS courses not used to satisfy course requirements in the TPSS major</li> </ul> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ |
| <b>Credit Minimums</b>   |
| <ul style="list-style-type: none"> <li>120 total applicable</li> <li>30 in residence at UHM</li> <li>45 upper division (300+ level) credits</li> </ul>   |
| <b>Grade Point Average</b>   |
| <ul style="list-style-type: none"> <li>2.0 cumulative or higher (<i>Note: Other GPAs may be required</i>)</li> <li>Good academic standing</li> </ul>   |

| College Requirements   |
|--|
| <b>CTAHR Required Set of Interrelated Courses</b>  |
| <input type="checkbox"/> FAMR 380* <sup>DS</sup> /380L or NREM 310   |
| <input type="checkbox"/> Internship or capstone course (TPSS 492/492L)   |
| <input type="checkbox"/> The Symbolic Reasoning and Natural Sciences requirements are to be completed by the end of the student's third semester in TPSS |
| <b>Credit Minimums</b>   |
| <ul style="list-style-type: none"> <li>120 total applicable</li> </ul>   |

*This program sheet was prepared to provide information and does not constitute a contract. Meet regularly with your department's undergraduate advisor to ensure you are on track with your major requirements.*

## Major Requirements for BS in Tropical Plant and Soil Sciences

Specialization: Genetics and Physiology

Admission: Open

Application: NA

Min. major credits: 51 (70 with related requirements)

Min. exit GPA: 2.0 in the major

### Requirements

#### Tropical Plant and Soil Sciences Related Requirements (19 credits)

- BIOL 171\*<sup>DB</sup> /  171L\*<sup>DY</sup>
- BIOL 172\*<sup>DB</sup> /  172L\*<sup>DY</sup>
- CHEM 161\*<sup>DP</sup> /  161L\*<sup>DY</sup>
- CHEM 162\*<sup>DP</sup> /  162L\*<sup>DY</sup>
- MATH 140 or NREM 203\*<sup>FS</sup>

#### Tropical Plant and Soil Sciences Core Courses (21 credits)

- TPSS 200<sup>DB</sup>
- TPSS 304\*<sup>DP/DY</sup>
- TPSS 470 /  470L\*<sup>DY</sup>
- TPSS/PEPS 499
- BIOL 265\*<sup>DB</sup>
- PEPS 421

#### Tropical Plant and Soil Sciences Required Courses (30 credits; see Catalog for prerequisites)

Take 10 courses from the two groups below, including at least 3 from Group A.

##### Group A Genetics and Physiology Courses (at least 12 credits)

- \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_
- TPSS 371, 440, 453; BIOL 340; MBBE 304, 401

##### Group B Supporting Courses

- \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_
- \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

TPSS 300, 336, 409, 416, 420, 430, 435, 450, 460, 463, 481, 491; BIOL 124/124L, 407; BOT 201/201L, 410/410L, 461; GEOG 101; MICR 314; MBBE 402/402L or BIOL 402 or BIOC 341; PEPS 363/363L, 403, 405. Any non-introductory MBBE, NREM, PEPS; BOT, CHEM course, or any other TPSS course with approval of the undergraduate academic advisor.

*Students who complete TPSS 341, 429, 430, and BUS 312 will earn a Certificate in Agribusiness Management.*

*The Symbolic Reasoning and Natural Sciences requirement are to be completed by the end of the student's third semester in TPSS. Contemporary Ethical Issues (E) requirement can be satisfied by taking any one of: CMB 351/BIOL 340, MBBE/BIOL 304, PEPS 310, 350, 451, TPSS 416 (if not previously satisfied upon entry to the program).*

### Notes

CTAHR Academic Advising Office:

Gilmore 1<sup>st</sup> floor; [tahradv@hawaii.edu](mailto:tahradv@hawaii.edu)

Appointments are required to see an advisor; please visit [tahradv.youcanbook.me/](http://tahradv.youcanbook.me/) to schedule an appointment.

CTAHR Office of Academic and Student Affairs:

Gilmore 210, (808) 956-8183/(808) 956-6733; [www.ctahr.hawaii.edu/ugadvising](http://www.ctahr.hawaii.edu/ugadvising)

TPSS Faculty Advisor: Ken Leonhardt, PhD; St John 19; (808) 956-8909; [leonhard@hawaii.edu](mailto:leonhard@hawaii.edu)