



**University of Hawai'i at Mānoa**  
**College of Tropical Agriculture and Human Resources Program Sheet 2017-2018**  
**Bachelor of Science (BS) in Tropical Agriculture and the Environment**  
**Specialization: Plant Physiology and Genetics**  
**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, TPSS, PEPS, or other approved related courses not used to satisfy requirements in the TAE 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 Agriculture and the Environment

Specialization: Plant Physiology and Genetics

Admission: Open

Application: NA

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

Min. exit GPA: 2.0 in the major

### Requirements

#### Tropical Agriculture and the Environment 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 Agriculture and the Environment 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 Agriculture and the Environment 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.

*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 TAE.*

### Notes

CTAHR Academic Advising Office:

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

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

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