



**University of Hawai'i at Mānoa**  
**College of Tropical Agriculture and Human Resources Program Sheet 2014-2015**  
**Bachelor of Science (BS) in Tropical Plant and Soil Sciences**  
**Specialization: Genetics and Physiology**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (100 in core & major + 20 in electives)**

UHM General Education Core Requirements
<b>Foundations</b>
<input type="checkbox"/> FW
<input type="checkbox"/> FS
<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
<input type="checkbox"/> DP
<input type="checkbox"/> DY
<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
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W (300+)
<input type="checkbox"/> W (300+)
<b>Hawaiian / Second Language Alternative</b>
<ul style="list-style-type: none"> <li>Any four-course combination of language, and/or TPSS 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)
<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: 42 (57 with related requirements)

Min. exit GPA: 2.0 in the major

*The symbolic reasoning & natural sciences requirement are to be completed by the end of the third semester in TPSS.*

### Requirements

#### Tropical Plant and Soil Sciences Related Requirements (15 credits)

MATH 140 or NREM 203\*<sup>FS</sup>

BOT 101\*<sup>DB</sup> /  101L\*<sup>DY</sup>

CHEM 161\*<sup>DP</sup> /  161L\*<sup>DY</sup>

CHEM 162\*<sup>DP</sup> /  162L\*<sup>DY</sup>

#### Tropical Plant and Soil Sciences Fundamental Courses (10 credits)

TPSS 200

TPSS 351

TPSS 492

#### Additional Tropical Plant and Soil Sciences Courses (36 credits)

12 courses of genetics & physiology and supporting courses:

<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____

*Students must take at least four (4) genetics & physiology courses.*

#### Genetics and Physiology Course Lists (see catalog for prerequisites)

##### Genetics & Physiology

TPSS 371, 440, 453, 470/470L; BIOL 340; MBBE 304, 401

##### Supporting

TPSS 300, 304, 336, 409, 416, 420, 435, 450, 460, 463, 481, 491; BIOL 407; BOT 201/201L, 410/410L, 461; GEOG 101; MICR 314; MBBE 402/402L or BIOL 402 or BIOC 341; PEPS 363/363L, 405

*Students who complete TPSS 322, 341, 351, and 429 will earn a Certificate in Agribusiness Management. TPSS 322 may be substituted with BUS 312.*

### Notes

CTAHR Office of Academic and Student Affairs: Gilmore 210; (808) 956-8183/(808) 956-6733; acadaff@ctahr.hawaii.edu; www.ctahr.hawaii.edu

TPSS Program: St John 102; (808) 956-8351; tpss@ctahr.hawaii.edu; manoa.hawaii.edu/ctahr/tpss

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