

Name: \_\_\_\_\_

UH ID: \_\_\_\_\_

**AGRIPHARMATECH  
PLANT BIOTECHNOLOGY 2020-21  
Graduation Checklist for Windward Community College  
CERTIFICATE OF ACHIEVEMENT (CA) – 30 credits**

The CA in Agripharmatech: Ethnopharmacognosy will prepare students to enter occupations for employment as Food Scientists and Technologists, Soil and Plant Scientists, Microbiologists, Biological Scientists, Conservation Scientists, Life Scientists, Agricultural and Food Science Technicians, Biological Technicians, Forensic Science Technicians, or Forest and Conservation Technicians. The students receive hands-on training in basic/applied sciences and research in botany, microbiology, orchidology, chemistry, cell and molecular biology, plant tissue culture, phytobiotechnology and ethnopharmacognosy. The CA A-PB focuses on the study of plant/orchid tissue culture, plant molecular phylogenetic and genetic engineering.

This certificate consists of 30 credits. See course descriptions for prerequisites.

This is not an official document. Check catalog for course description and prerequisite. **Check course core designation at the Class Availability website. Course core designation may differ at the various UH campuses.** See your academic counselor if you need help.

	COURSE	CREDIT	GRADE	SEMESTER YEAR
<b>REQUIRED CAPSTONE CLASS – 4-5 credits</b>				
BOT 210	Phytobiotechnology (4)	4/5		
or BIOL 275/275L	or Cell and Molecular Biology (3/2)			
<b>REQUIRED COURSES – 17-18 credits</b>				
AG 152	Orchid Culture (3)	3		
BOT 160	Identification of Tropical Plants (3)	3/4		
or BOT 101/101L	General Botany/Lab (3/1)			
or BIOL 172/172L	General Biology II/Lab (3/1)			
ENG 100	Composition I (3)	3		
or SP 151	Personal and Public Speech (3)			
MATH 100	Survey of Mathematics or higher	3		
MICRO 130	General Microbiology (3)	3		
MICR 140L	General Microbiology Lab (2)	2		
<b>ELECTIVE COURSES – 8-9 credits</b>				
<b>Total Credits</b>		<b>30</b>		

<b>Plant Biotechnology Electives</b>			
BIOL 171/171L	General Biology I/Lab (3/1)	CHEM 161/161L	General Chemistry I/Lab (3/1)
BOT 192	Special Topics	CHEM 162/162L	General Chemistry II/Lab (3/1)
BOT 199/299	Independent Study (1-4, with approval) Involves plant biotechnology research		

**Graduation Requirements**

- 2.0 cumulative grade point average.
- Residency requirement: At least 20% of the required courses in the major area (the final credits) must be earned at the College. Under certain circumstances, this requirement may be waived upon request made to the Vice Chancellor of Academic Affairs.
- Any one course can fulfill only one area.
- Last day for graduation certification is the last day of instruction.