



Bio-Resources and Technology: Bio-Resource Development and Management Academic Subject Certificate 2019-20 (26 credits)

SAMPLE

The Academic Subject Certificate in Bio-Resources and Technology will prepare students for careers in environmental science. Knowledge and training in Bio-Resources Development and Management will be an asset to the productive and efficient use of natural resources for promoting sustainable management of our environment.

This is an example of an educational plan which can serve as a guideline to create your own academic pathway.

Year 1			Year 2		
Fall Semester			Fall Semester:		
BIOL 101*	Biology and Society <i>Prereq: Credit in Math 25., 26, 29, 82 or higher or equiv prep; eligibility for placement in Eng 100</i>	4			
GEOG 101**	The Natural Environment	3			
Elective	Set 1: Technology, Utilization, and Management	3			
Elective	Set 2: Environment and Technology	3			
		Credits 13			
Spring Semester:			Spring Semester:		
IS 201	The Ahupua'a <i>Rec Prep: Biol 101 or Biol 124</i>	3			
BIOL 124***	Environment & Ecology	3			
BIOL 124L***	Environment & Ecology Laboratory <i>Prereq: Credit for or registration in Biol 124</i>	1			
Elective	Set 1: Technology, Utilization, and Management	3			
Elective	Set 2: Environment and Technology	3			
		Credits 13			
Summer Semester:			Summer Semester:		
		Credits			
Total Credits for the Year		26	Total Credits for 2 Years		

BRT-BRDM

Notes:

- Academic Subject Certificates (ASC) are designed to fit within the structure of the Associate of Arts degree, therefore the requirements for the ASC may be spread over four semesters.
- *BIOL 171/L (3/1) & BIOL 172/L (3/1) may replace BIOL 101 (4)
- **GG 101/L (3/1) may replace GEOG 101
- ***BIOL 172/L (3/1) may replace BIOL 124/L (3/1) provided they take BIOL 265/L (3/1) in Elective Set 2
- Cumulative GPA of 2.0 or higher for all course work taken in fulfillment of degree.
- At least 20% of the required courses in the major area must be earned at the College.
- When there is a break in enrollment (not attending fall or spring semester), you must use the graduation requirements in effect at the time you return to WCC.
- The last day for graduation certification is the last day of instruction.

ELECTIVE Set I – 6 credits		ELECTIVE Set II – 6 credits	
Technology, Utilization, and Management		Environment and Ecology	
AQUA 106	Small Scale Aquaculture (3)	BIOL 200	Coral Reefs (3)
AQUA 106L	Small Scale Aquaculture Lab (1)	BIOL 200L	Coral Reefs Lab and Field Studies (1)
AQUA 201	The Hawaiian Fishpond (3)	BIOL 265*/265L*	Ecology and Evolutionary Biology/Lab (4)
AQUA 201L	The Hawaiian Fishpond Lab (1)	BOT 130/130L	Plants in the Hawaiian Environment/Lab (3/1)
BOT 105	Ethnobotany (3)	ENVST 199/299	Independent Study (1-4)
CHEM 151/151L	Elementary Survey of Chemistry/Lab (4)	GEOG 101L*	The Natural Environment Lab (1)
ENVST 199/299	Independent Study (1-4)	GG 103	Geology of the Hawaiian Islands (3)
ZOOL 105	Hawaiian Use of Fish & Aquatic Invertebrates (3)	HIST 285	Environmental History of Hawaii (3)
		OCN 201	Science of the Sea (3)
		ZOOL 200	Marine Biology (3)
		ZOOL 200L	Marine Biology Lab (1)
		*BIOL 265/265L and GEOG 101L are highly recommended for those students intending to enroll in a baccalaureate-level environmental science program.	