

Biology Endorsement Worksheet

Applicant's Name: Zacharie T Straley

NES 305		Date taken or to be taken: 01/2020-06/2024		Score (if known):			
Minimum Coursework Expectations 45 credits of biology with significant lab work and supporting content to include:	Course Abbreviation/# or TESC program title	√ if has lab	Course Name (For TESC programs list the name of the course equivalency)	# Qtr credits	College or University	√ if complete	Date completed/to be completed
Use of Algebra, Probability and Statistics, and Mathematical Modeling in Life Sciences	*General Biology: Cells, Populations, and Ecosystems	√	*Introductory Statistics (Gen Bio)	4	The Evergreen State College	√	2020
	*Precalculus		*Precalculus 1 & 2	8		√	2021
	*Chemistry Counts	√	*Algebraic thinking for science	6		√	2023
	*Statistics and Research Methods for Psychology and Other Social Sciences		*Introductory statistic (Descriptive and Inferential)	4		√	
Ecology/Ecosystems	*General Biology: Cells, Populations, and Ecosystems *Environmental Biology and Chemistry *The Fungal Kingdom *Environmental Applications of Fungi		*General Biology: Ecology and Evolutionary Biology with Laboratory	6	The Evergreen State College	√	2020 2022 2023 2024
			*Pacific Northwest Natural History	3		√	
		√	*Biogeochemistry and Bioremediation with Field Methods	3		√	
		√	*Environmental Microbiology with Laboratory	3		√	
		√	*Microbial Ecology with Laboratory	5		√	
			*Fungal Biology and Ecology	8		√	
			*Lichen Biology and Ecology	6		√	
			*Environmental Applications of Fungi	8		√	

Botany	*General Biology: Cells, Populations, and Ecosystems	✓	*General Biology: Plant Systems and Physiology	4	The Evergreen State College	✓	2020
		✓	*Plant Biology	4		✓	
	*Plant Biology	✓	*Field Botany	2		✓	
	*The Fungal Kingdom	✓	*Fungal Taxonomy	6		✓	
			*Lichen Taxonomy	6		✓	
Zoology/Animal Biology	*General Biology: Cells, Populations, and Ecosystems	✓	*General Biology: Animal Systems and Physiology with Laboratory	4	The Evergreen State College	✓	2020
		✓	*Ornithology	4		✓	
	*Field Ornithology		*Avian Research Methods	4		✓	
Human Anatomy and Physiology	*Anatomy and Physiology: Foundations and Movement	✓	*Anatomy and Physiology 1 with Laboratory	6	The Evergreen State College	✓	2022
	*Anatomy and Physiology 2 with Laboratory	✓	*Anatomy and Physiology 2 with Laboratory	6		✓	
Micro or Cell Biology			*General Biology Molecular and cellular Biology	6	The Evergreen State College	✓	2020
		✓	*Cell Biology	5		✓	
	*General Biology: Cells, Populations, and Ecosystems		*Molecular Biology	5		✓	
	*Environmental Biology and Chemistry	✓	*General Microbiology with Laboratory	4		✓	
	*Developmental Biology	✓	*Microbial Ecology with Laboratory	5		✓	
			*Molecular and Developmental Biology with Laboratory	2		✓	

Chemistry			*Introductory Chemistry with Microsoft Excel Skills Laboratory	8	The Evergreen State College	✓	2020
	*Chemistry Counts	✓	*General Chemistry with Laboratory	16		✓	
	*General Chemistry	✓	*Organic Chemistry 1 and 2 with Laboratory	11		✓	
	*Environmental Biology and Chemistry	✓	*Organic Chemistry: Instrumentation and Spectroscopy	4		✓	
	*The Fungal Kingdom	✓	*Environmental Chemistry	2		✓	
	*Undergraduate Research with L. Calabria	✓	*Independent Project: Fungal Natural Products Research	4		✓	
	*Medicinal Fungi	✓	*Natural Products Chemistry	2		✓	
			*Medicinal Fungi	8		✓	
Genetics			*Molecular Biology	5	The Evergreen State College	✓	2022
	*Developmental Biology	✓	*Molecular and Developmental Biology Laboratory	2		✓	
	*The Fungal Kingdom	✓	*Fungal Biology and Ecology	8		✓	
			*Independent Project: Fungal Natural Products Research	4		✓	
Evolution					The Evergreen State College		2020
	*General Biology: Cells, Populations, and Ecosystems	✓	*General Biology: Ecology and Evolutionary Biology with Laboratory	6		✓	
			*Developmental Biology	4		✓	
	*Plant Biology	✓	*Ornithology	4		✓	
	*Field Ornithology	✓	*Fungal Biology and Ecology	8		✓	
	*The Fungal Kingdom	✓	*Lichen Biology and Ecology	6		✓	

Biology In Contemporary Issues	*General Biology: Cells, Populations, and Ecosystems	✓	*Scientific Communication *Neuroscience *Natural Products Chemistry *Fungal Food Justice *Medicinal Fungi	5	The Evergreen State College	✓	2020 2023 2024
	*Neurobiology	✓		5		✓	
	*Undergraduate Research with L. Calabria	✓		2		✓	
	*Fungi For Human Health and the Environment	✓		4		✓	
	*Medicinal Fungi	✓		8		✓	
Other Biology	*The Fungal Kingdom	✓	*Research seminar in Mycology	2	The Evergreen State College	✓	2023

Please list all work completed, in-progress and planned. Convert all credits to quarter credits (generally 3 semester hrs = 4.5 qtr cr)