

# COURSE SUMMARY REPORT

Numeric Responses

University of Washington, Seattle College of the Environment Sch. of Aquatic & Fishery Sciences Term: Spring 2022 (COVID)

Evaluation Delivery: Online Evaluation Form: A

Responses: 7/21 (33% moderate)

FISH 441 A, Joint with FISH 541 A, FISH 541 B

Integrative Environmental Physiology

Course type: Face-to-Face

Taught by: Matt George, Steven Roberts Instructor Evaluated: Matt George-Other

**Overall Summative Rating** represents the combined responses of students to the four global summative items and is presented to provide an overall index of the class's quality:

Combined Adjusted Combined Median Median

4.4 4.5

(0=lowest; 5=highest)

**Challenge and Engagement Index (CEI)** combines student responses to several *IASystem* items relating to how academically challenging students found the course to be and how engaged they were:

CEI: 5.4

(1=lowest; 7=highest)

#### **SUMMATIVE ITEMS**

	N	Excellent (5)	Very Good (4)	Good (3)	Fair (2)	Poor (1)	Very Poor (0)	Median	Adjusted Median
The course as a whole was:	7	57%	29%		14%			4.6	4.7
The course content was:	7	29%	57%		14%			4.1	4.1
The instructor's contribution to the course was:	7	43%	43%	14%				4.3	4.4
The instructor's effectiveness in teaching the subject matter was:	7	57%	29%	14%				4.6	4.7

#### STUDENT ENGAGEMENT

Relative t	to other c	ollege co	urses you	ı have tak	en:		N	Hiç	uch gher (7)	(6)	(5)	Average (4)	(3)	(2)	Much Lower (1)	Media	n
		•	his course		CII.				9%	14%	(5)	57%	(3)	(2)	(1)	4.4	"
•	. ,	Ü	sented was					7	0 / 0	86%	14%	0.70				5.9	
		0 1	nto this cou				-	7		71%	29%					5.8	
The amou	unt of effor	t to succe	ed in this c	ourse was	s:		-	7		29%	57%	14%				5.1	
Your invol was:	lvement in	course (d	loing assig	nments, a	ttending cla	asses, etc.)	, -	7 4	3%	57%						6.4	
including a	attending o	classes, de	per week oing readin related wo	gs, review		nis course, writing					Cla	ıss medi	an: 8.5	Hou	rs per o	redit:	2.8 (N=7)
Under 2	2-3		4-5	6-7	8-9	10-11	1	2-13		14-15		16-17	18	3-19	20-	21	22 or more
		2	29%	14%	14%	29%	1	4%									
	total avera n advancir	0	above, howucation?	w many do	you cons	ider were					Cla	ıss medi	an: 7.8	Hou	rs per o	redit:	2.6 (N=7)
Under 2	2-3		4-5	6-7	8-9	10-11	1	2-13		14-15		16-17	18	3-19	20-	21	22 or more
	29%	<sub>6</sub> 1	4%		43%	14%											
What grad	de do you	expect in t	this course	?										С	lass me	edian:	3.7 (N=7)
A (3.9-4.0) 43%	A- (3.5-3.8) 29%	B+ (3.2-3.4) 14%	B (2.9-3.1)	B- (2.5-2.8) 14%	C+ (2.2-2.4)	C (1.9-2.1)	C- (1.5-1.8)		)+ ?-1.4)	D (0.9-1.	1) (	D- 0.7-0.8)	F (0.0)	P	ass	Credit	No Cred
In regard	to your ac	ademic pr	ogram, is t	his course	e best desc	cribed as:											(N=7)
0	,		core/distri														` ,

In your minor

A program requirement

An elective

29%

requirement

In your major

71%

Other



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## STANDARD FORMATIVE ITEMS

			Verv				Verv		
	N	Excellent (5)	Good (4)	Good (3)	Fair (2)	Poor (1)	Poor (0)	Median	Relative Rank
Course organization was:	7	43%	29%	29%				4.2	6
Clarity of instructor's voice was:	7	43%	29%	14%	14%			4.2	18
Explanations by instructor were:	7	43%	29%	29%				4.2	10
Instructor's ability to present alternative explanations when needed was:	7	43%	43%	14%				4.3	8
Instructor's use of examples and illustrations was:	7	43%	29%	29%				4.2	15
Quality of questions or problems raised by the instructor was:	7	43%	29%	29%				4.2	13
Student confidence in instructor's knowledge was:	7	71%	14%	14%				4.8	2
Instructor's enthusiasm was:	7	57%	29%	14%				4.6	4
Encouragement given students to express themselves was:	7	43%	43%		14%			4.3	16
Answers to student questions were:	7	43%	43%	14%				4.3	11
Availability of extra help when needed was:	7	43%	29%	29%				4.2	17
Use of class time was:	7	43%	29%	14%	14%			4.2	7
Instructor's interest in whether students learned was:	7	57%	29%		14%			4.6	3
Amount you learned in the course was:	7	43%	43%		14%			4.3	5
Relevance and usefulness of course content were:	7	43%	43%	14%				4.3	12
Evaluative and grading techniques (tests, papers, projects, etc.) were:	7	57%	29%	14%				4.6	1
Reasonableness of assigned work was:	7	43%	29%	29%				4.2	14
Clarity of student responsibilities and requirements was:	7	43%	43%	14%				4.3	9



# COURSE SUMMARY REPORT

Student Comments

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Evaluation Delivery: Online Evaluation Form: A

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FISH 441 A, Joint with FISH 541 A, FISH 541 B

Integrative Environmental Physiology

Course type: Face-to-Face

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#### STANDARD OPEN-ENDED QUESTIONS

#### Was this class intellectually stimulating? Did it stretch your thinking? Why or why not?

- 1. yes, never taken a physiology course and even though it was pretty hard it was really interesting
- 2. Yes, thinking on scale of environment influencing molecular interactions and dictating organismal function and sometimes behavior... interesting
- 3. Yes it was intellectually stimulating
- 4. Definitely, really liked the lab components especially!
- 5. It did stretch my thinking because I knew very little about physiology outside of the human body. I enjoyed learning about the influences that both genetics and the environment had on different species.
- 6. Yes, this course stretched my thinking particularly from a comparative aspect. Examining physiology across a variety of taxa really highlighted the various strategies organisms use to cope with their environments.

#### What aspects of this class contributed most to your learning?

- 1. group work
- 2. Outside reading
- 3. Reading the textbook chapters
- 4. The lab was exceptional, and I feel the daily quizzes (and lack of midterms/final) were excellent
- 5. Having the reading assignments and quizzes contributed most to my learning.
- 6. Lectures contributed most to my learning.

### What aspects of this class detracted from your learning?

- 2. Pace... Never felt like there was enough time for each concept to sink in before moving on to the next. We never really had the opportunity to go over the same thing twice. Sometimes outdated papers.
- 3. so many weekly quizzes
- 4. Sometimes the guiz questions could be just about searching through the chapter for the sentence that contained the correct answer
- 5. Nothing. I enjoyed attending class and listening to the lecture :)
- 6. Sometimes the quizzes were a bit much since they were due everyday before class.

## What suggestions do you have for improving the class?

- 2. The class had a lot of content and not a lot of reiteration, maybe less is more? Pair down to fundamentals... Or switch UW to a semester system.
- 3. I would encourage more undergrads to take the lab section. (Maybe make a 400 level lab section?) I think the undergrads would get a lot out of the lab since we do all the molecular techniques needed for graduate school.
- 4. Less search-for-answers multiple choice quizzes, fewer questions overall, more that involve critical thinking
- 5. Shorter readings... other than that, I loved everything about the structure of this class!
- 6. Maybe limit to one quiz per week.



*IASystem* Course Summary Reports summarize student ratings of a particular course or combination of courses. They provide a rich perspective on student views by reporting responses in three ways: as frequency distributions, average ratings, and either comparative or adjusted ratings. Remember in interpreting results that it is important to keep in mind the number of students who evaluated the course relative to the total course enrollment as shown on the upper right-hand corner of the report.

**Frequency distributions.** The percentage of students who selected each response choice is displayed for each item. Percentages are based on the number of students who answered the respective item rather than the number of students who evaluated the course because individual item response is optional.

**Median ratings.** *IASystem* reports average ratings in the form of item medians. Although means are a more familiar type of average than medians, they are less accurate in summarizing student ratings. This is because ratings distributions tend to be strongly skewed. That is, most of the ratings are at the high end of the scale and trail off to the low end.

The median indicates the point on the rating scale at which half of the students selected higher ratings, and half selected lower. Medians are computed to one decimal place by interpolation. In general, higher medians reflect more favorable ratings. To interpret median ratings, compare the value of each median to the respective response scale: Very Poor, Poor, Fair, Good, Very Good, Excellent (0-5); Never/None/Much Lower, About Half/Average, Always/Great/Much Higher (1-7); Slight, Moderate, Considerable, Extensive (1-4).

**Comparative ratings.** *IASystem* provides a normative comparison for each item by reporting the decile rank of the item median. Decile ranks compare the median rating of a particular item to ratings of the same item over the previous two academic years in all classes at the institution and within the college, school, or division. Decile ranks are shown only for items with sufficient normative data.

Decile ranks range from 0 (lowest) to 9 (highest). For all items, higher medians yield higher decile ranks. The 0 decile rank indicates an item median in the lowest 10% of all scores. A decile rank of 1 indicates a median above the bottom 10% and below the top 80%. A decile rank of 9 indicates a median in the top 10% of all scores. Because average ratings tend to be high, a rating of "good" or "average" may have a low decile rank.

**Adjusted ratings.** Research has shown that student ratings may be somewhat influenced by factors such as class size, expected grade, and reason for enrollment. To correct for this, *IASystem* reports **adjusted medians** for summative items (items #1-4 and their combined global rating) based on regression analyses of ratings over the previous two academic years in all classes at the respective institution. If large classes at the institution tend to be rated lower than small classes, for example, the adjusted medians for large classes will be slightly higher than their unadjusted medians.

When adjusted ratings are displayed for summative items, **relative rank** is displayed for the more specific (formative) items. Rankings serve as a guide in directing instructional improvement efforts. The top ranked items (1, 2, 3, etc.) represent areas that are going well from a student perspective; whereas the bottom ranked items (18, 17, 16, etc.) represent areas in which the instructor may want to make changes. Relative ranks are computed by first standardizing each item (subtracting the overall institutional average from the item rating for the particular course, then dividing by the standard deviation of the ratings across all courses) and then ranking those standardized scores.

**Challenge and Engagement Index (CEI).** Several *IASystem* items ask students how academically challenging they found the course to be. *IASystem* calculates the average of these items and reports them as a single index. *The Challenge and Engagement Index (CEI)* correlates only modestly with the global rating (median of items 1-4).

**Optional Items.** Student responses to instructor-supplied items are summarized at the end of the evaluation report. Median responses should be interpreted in light of the specific item text and response scale used (response values 1-6 on paper evaluation forms).

<sup>&</sup>lt;sup>1</sup> For the specific method, see, for example, Guilford, J.P. (1965). Fundamental statistics in psychology and education. New York: McGraw-Hill Book Company, pp. 49-53.