Chemical and Biological Engineering Summary of Actions

2017-18

Concern		Recommendation	Action	Follow-up
1.	While reviewing courses and	Faculty recommending changing	The faculty recommendations	Follow-up is unlikely to be
	assessing whether courses	Outcome 1 (An ability to identify,	were applied to the Outcomes	necessary unless Outcome is not
	have the necessary content to	formulate, and solve complex	matrix.	adequately achieved in other
	make the successful students	engineering problems by		courses, which seems unlikely
	likely to achieve certain	applying principles of		considering it is a primary
	outcomes, some concerns	engineering, science, and		outcome for most other courses.
	associated with Outcome 1	mathematics.) to a secondary		
	were raised for unit	outcome for ECHM/EBIO 442,		
	operations lab and design.	443, and 412.		
2.	As more courses are offered	The content of both courses was	A request was submitted to	The performance of students
	both semesters each	reviewed, and faculty	change the prerequisites for	taking ECHM/EBIO 412 before
	academic year, there is a	recommending that we no longer	ECHM/EBIO 412 in the catalog.	ECHM/EBIO 411 will be carefully
	growing design from students	require ECHM/EBIO 411 as a		monitored for the next two years
	wanting to take ECHM/EBIO	prerequisite for ECHM/EBIO 412		to ensure that students can
	412 before taking ECHM/EBIO	thus allowing students to take		achieve all learning outcomes
	411.	ECHM/EBIO 412 first.		even if they take ECHM/EBIO 412
				first.
3.	For the past two years, some	Faculty recommended extending	The instructors were directed to	The performance of students in
	lectures in ECHM 412 and	and expanding the number of co-	continue and to expand the co-	ECHM 412 and EBIO 412 will be
	EBIO 412 have been co-	convened lectures between	convened lectures.	monitored through the final
	convened. Faculty have	ECHM 412 and EBIO 412.		design report and FE exam
	discussed extending and			performance for the next few
	potentially expanding this			years to determine if the co-
	practice to other lectures that			convened lectures might inhibit
	are largely the same between			student learning.
	these two classes.			

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4.	Faculty were concerned about	Faculty recommended that	A tour of a local microbrewery	The tour was very popular and
	the quantity of industrial	additional tours be either	was added to EBIO 438.	initial student feedback was
	exposure of our current	required or encouraged		positive. Student feedback will
	students.	throughout the curriculum.		continue to be collected to
				assess the effectiveness of the
				tour.
5.	The department's advisory	The DAC recommended hiring	In addition to Phil Russell (hired	The initial feedback from the DAC
	committee was concerned	additional faculty with industrial	in May, 2017 with 30 years of	was very positive, and feedback
	about the quantity of	experience.	industrial experience), the	from the students will continue
	industrial exposure of our		department also hired Trent	to be gathered. Student
	current students.		Browne (30 years of industrial	performance on the FE exam will
			experience, retired in Bozeman)	continue to be monitored.
			and Logan Shultz (4 years of	
			experience as a consulting	
			engineering).	
6.	The department advisory	Both the DAC and faculty were	A proposal was submitted (and	The renovations are scheduled
	committee expressed	supportive of renovating COBL	later approved) to the provost	for the summer of 2018. Student
	concerns about the limited	326, the student computer lab, to	to renovate and update COBL	responses will be collected in the
	amount of space available to	make it a more effective and	326. Students were also	Fall of 2018.
	Chemical and Biological	efficient space for groups of	surveyed before the renovation	
	Engineering students for study	students.	to obtain their 'wish list' for the	
	and group work.		space.	