Chemical and Biological Engineering Summary of Actions 2018-19

Concern		Recommendation	Action	Follow-up
1.	While reviewing courses and	Faculty recommend the	Instructors are adding additional	These additional assessment
	assessing whether courses	additional assessment of ethics	assessment tools with help from	tools will be used for assessing
	have the necessary content to	and professional responsibilities	the Montana Engineering	Outcome 4 at the end of the next
	make students likely to	in engineering situations be	Education Research Center	academic year (2019-20).
	achieve certain outcomes,	added to the design courses	(MEERC).	
	some concerns associated	(ECHM/EBIO 411 and 412)		
	with the feasibility of			
	assessing Outcome 4 (Ethics).			
2.	The Department Advisory	Various options were discussed	Dr. Russell was asked to develop	Dr. Russell is also being asked to
	Committee (DAC)	by the faculty, but, in the end, it	additional content for ECHM 412	assess business skills in
	recommended an increased	was decided to increase and	and EBIO 412 that supported the	ECHM/EBIO 412 so student
	focus on the development of	diversify business skill coverage	development of general	learning can be measured.
	general business skills –	in EBIO/ECHM 412 and to make	business skills. EGEN 325 will	Students will also be surveyed to
	specifically recommending	EGEN 325 a more prominent	also be encouraged more	gather opinions on the new
	that students be encouraged	elective recommendation for	strongly as a technical elective	content in ECHM/EBIO 412.
	to take EGEN 325 (Engineering	students interested in developing	course.	
	Business Practices course).	their business skills.		
3.	The DAC recommended the	Courses will be identified during	Courses will be identified during	The effectiveness and student
	addition of a "Safety	the fall retreat where a safety	the fall retreat where a safety	perception of the Safety Moment
	Moment" at the beginning of	moment can be added to the	moment can be added to the	will be discussed by the faculty
	some classes because it is	course content. The initial	course content. Guidelines on	and students (if available) at the
	considered a best practice in	recommendation is 2-4 courses.	how to conduct a Safety	end of the 2019-20 academic
	industry.		Moment will also be distributed.	year.
4.	The DAC recommended	It was recommended that the	The goal is to have	The students will be interviewed
	enhancement of career	department head contact Career	presentations from Career	by the DAC during their next

	guidance resources for	Services to request additional	Services to both first- and	annual meeting to determine if
	students because students	-	second-year students during the	the presentations were helpful or
		presentations on the support	, , , , , , , , , , , , , , , , , , , ,	
	were unaware of resources	available through Career	coming academic year.	not.
	that are available to them.	Services.		
5.	Student Outcome 3	Department Head recommended	A rubric was developed and	The feedback from reviewers
	(communicate effectively with	that communication with a range	used by representatives from a	representing a wide range of
	a range of audiences) is	of audiences be assessed during	wide range of audiences	audiences was very favorable. In
	difficult to assess based on	the Engineering Design Fair	(community members, non-	fact, the feedback on the
	previous activities in	poster presentations using	engineering faculty, students,	effectiveness of student
	EBIO/ECHM 412.	community members, faculty	local engineers, etc.) this past	communication was generally
		from other departments,	spring at the Engineering Design	more favorable for individuals
		students, and DAC members.	Fair poster presentations.	with less background in Chemical
				or Biological Engineering.
6.	One of the courses required	Changes to the Biological	The faculty approved the	The performance of Biological
	for the Biological Engineering	Engineering degree requirement	department head's	Engineering students in BIOM
	degree (BIOM 360 General	were proposed by the	recommendation, and the	360 will be reviewed in 3 years to
	Microbiology) has a	department head at a faculty	flowcharts and DegreeWorks	determine if the new
	prerequisite that has been	meeting that included a	templates were changed in the	prerequisite requirement is
	waived by the Microbiology	prerequisite course for BIOM	summer of 2019. The catalog	improving student performance
	department for Biological	360. The recommended changes	changes will not be effective	in the course.
	Engineering students for the	included requiring students to	until the 2019-20 catalog.	
	past decade. Microbiology	take either BIOB 160 or BIOB 260,		
	indicated that waiving this	and the transition of BIOB 375		
	prerequisite for Bio. Eng.	General Genetic from a required		
	Students was no longer	course to a technical elective.		
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	recommended.			