

SCIENCE DEPARTMENT MEETING MINUTES*

FRIDAY, MARCH 15, 2019

Location: Online (SCOPE) Discipline Groups

A&P/HSC Discipline Group

FACULTY	PRESENT	ABSENT	EXCUSED
Fay, Erik	X		
Hepner, Roy	X		
Hermann, Henry			X
Hooks, Ed	X		
Koepke, Jay	X		
McCombs, Glenn		X	
Mera, Leonel	X		
Samaliazad, Esmaeel	X		
Handte, Gordon	X		
Vala, Teju	X		
Wolfson, Jed		X	

ADJUNCT FACULTY

Rattenborg, Oscar

BIO/MICRO/NUTRITION Discipline Group

FACULTY	PRESENT	ABSENT	EXCUSED
Cameron, Angus	X		
Donini, Jordan	X		
Gaidos, Gabriel		X	
Hermann, Lisa			X
Ottman, Tina	X		
Romeo, Peggy			X
Slisher, Jessica			X
Trevino, Marcela	X		
Ulrich, Melanie	X		
Verga, Vera	X		
Witty, Mike			X

ADJUNCT FACULTY

Judy Robinson

X

Helen Kashleva

X

Ann Mantell

X

CHEMISTRY Discipline Group

FACULTY (<i>Chemistry</i>)	PRESENT	ABSENT	EXCUSED
Hilton, Kim		X	
Liu, Qin		X	
McGarity, Lisa		X	
Page, Rebecca		X	
Pasishnyk, Serhiy			X
Xue, Di		X	

ENVIRONMENTAL/OCEAN/EARTH SCI/GEO Discipline Group

FACULTY	PRESENT	ABSENT	EXCUSED
Cameron, Angus	X		
McKenzie, Jonathan	X		
Porter, Emily			X
Sauer, Mike	X		
Jordan Donini	X		

ADJUNCT FACULTY

PHYSICS/ASTRONOMY Discipline Group

FACULTY (<i>Phys/Astronomy</i>)	PRESENT	ABSENT	EXCUSED
Coman, Marius	X		
Manacheril, George	X		
Paudel, Yadab	X		

<i>Discussions</i>		
<i>No.</i>	<i>Topic</i>	<i>Highlights</i>
1.	<i>Break-outs into Discipline Meetings</i>	<p>For the March 15th meeting, disciplines within our department met separately to discuss textbooks. Each discipline group met via group conference in SCOPE. Minutes for each group were submitted to Peggy Romeo for compilation into a single document to be uploaded onto the Document Manager.</p> <p>The minutes for each of the five discipline-group minutes are itemized in the following table.</p>
2.	<i>Next Meeting</i>	<p>The next meeting, scheduled for April 12th, @ 1:00 – 2:00, will again be limited to the discipline-specific groups. All groups, except for Bio/Nutrit/Micro will conduct their meeting using the Blue Button of SCOPE. Bio/Nutrit/Micro agreed to meet on Lee Campus.</p>

Discipline Group Discussions

No.	Group	Highlights
1.	<p>Physics/Astronomy Meeting was facilitated and minutes were prepared by <i>Marius Coman</i></p>	<p>Assessment results were reviewed. Decisions :</p> <p>1. PHY2048</p> <p>Q27 will be replaced; Yadab will reformulate it and send it for reviewing/discussions if any.</p> <p>2. ISC1001</p> <ul style="list-style-type: none"> • Luminita sent us an explanation as to why SLO 4 has poor scores: answer in the key sheet was incorrect; will correct it and send it to the assessment office; • Discussion ensued as to whether we need to ask the assessment office to redo the analysis for ISC 1001C, Fall218 semester...George said it is not necessary. <ul style="list-style-type: none"> ○ George will design an activity; Its goal improving SLO 10 score. • Activity will be implemented in 50% of the section in the Fall of 2019 • Data will be analyzed, comparisons made; • If activity will improve the score for SLO 10, as predicted, activity will be implemented in all sections the following semester. <p>PHY2048, PHY2049 new textbook adoption All are ok with adopting the new calc based physics ebook that includes the canvas testbank: Fundamentals of physics resnick Halliday, 11th Ed.</p> <p>Reasons: 1) cheaper, 2) has solved problems as videos 3) has test banks compatible with canvas.</p>

Discipline Group Discussions

<i>No.</i>	<i>Group</i>	<i>Highlights</i>
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<p>2.</p>	<p>Biology/Micro/ Nutrition Meeting was facilitated by Marcela Trevino and minutes were prepared by Vera Verga and Tina Ottman</p>	<p>TASKS FOR MARCH MEETING</p> <ol style="list-style-type: none"> Assessment – discuss Fall 2018 results <ul style="list-style-type: none"> New goals based upon new results? Continuing with old goals? Updating or refining goals due to new results? Now’s the time to begin thinking about any curricular changes for Fall 2020 (catalog changes or syllabi changes). If changes needed, they need to be submitted to Curriculum Committee by October 2019. OER or other types of free or reduced textbooks to review? If haven’t done so yet, select a division representative to look into free textbook options. BIOLOGY – stick with handouts or choose lab books for BSC1005 & BSC1010? Press contact volunteers for summer – provide contact information to Peggy. <p>ITEM 1 – Assessment Tasks</p> <p>Keep, revise, toss/set new goals?</p> <p>BSC 1005</p> <ul style="list-style-type: none"> Revision of the learning outcomes – not due to common assessment results since there isn’t a common exam yet Creation of a detailed course content outline <p>Comments: Lisa Hermann not present for this discussion (she is current course supervisor for 1005). Judy Robinson said that Lisa is still working on a common final exam for 1005... BUT detailed course content outline needs to be done first, now that revisions to the LOs have been completed</p> <p>BSC 1010</p> <ul style="list-style-type: none"> Discuss assessment after both the Fall and Spring terms Have a specific training/conversation with the adjunct faculty regarding the common final – goal is to reach 100% participation <p>Comments: Based on the assessment report, Tina suggested that ALL 1010 instructors look at the common final questions #2, 16, 17, 26, 27, 28, and 44 to see how their respective students did on them because those are highlighted as problematic in the report. Additionally, SLO 10 (on photosynthesis) was singled out for review.</p> <p>Vera asked if we had a sheet that aligns common final questions with our SLOs and Marcela said “yes” and that she would upload that file to our group. After discussion, it was decided to make the following changes to our 1010 common final:</p> <p>For SLO 10, change question 30 ‘carbohydrate’ to ‘sugar’; Question #2, c. change ‘Prokarya’ to ‘Fungi’; Question #16 – add a diagram; Question #17 – add diagram; Question #28 – change question to: Which of the following does NOT occur during the light reactions of photosynthesis; Question #44 – switch placement of answer choices ‘b’ with ‘d’</p> <p>The questions that pertain to cell communication also were discussed as we no longer have a chapter on cell communication in our textbook. Most of the 1010 instructors agreed that they have a presentation they use to teach the topic...but</p>
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	<p>perhaps our adjunct faculty do not include this in their courses. Tina offered to share her cell communication presentation with Marcela to be shared with all 1010 faculty.</p> <p>BSC 1011</p> <ul style="list-style-type: none"> • Poor analytic questions will be reviewed and either reworded or replaced with the development of the new common final • Energy flow diagram will be revised in the new common final • Further comparisons regarding lowering scores will be made as data compiles with regard to the inclusion of the online course <p>Comments: only Tina was present – we are still stalled on the common final effort and we need ALL 1011 faculty (Tina, Mike, Peggy and Jessica) to submit one or more questions for each of the new SLOs. Submissions should be specifically linked to each learning outcome to better facilitate the assessment process.</p> <p>There was a general discussion over shared concerns that the drop of the 1010 as a pre-requisite for A & P I / Micro was hurting student success and it was suggested that we see if it can be re-instated as a pre-requisite. Tina shared the reasons it was dropped due to the Nursing program...all agreed students need 1010 to be successful but were doubtful that it can be re-instated.</p> <p>MCB 2010C</p> <ul style="list-style-type: none"> • Goal is to improve overall percentage of common assessment scores from low 60% to closer to 70% - will count the score as a higher percentage in Spring 2019 • Questions that were too difficult or had weak discriminators were addressed and changes to the common final will occur • Plan to increase the question number from 30 to 50 <p>Comments: (Melanie, Vera and Ann): they have made several changes to questions on the common final and they want to see how students do on the updated exam; They want to increase the number of questions on the exam to 50, but they want to expand the SLOs before they add more questions; And...they want to get more micro faculty involved in this effort.</p> <p>HUN 1201</p> <ul style="list-style-type: none"> • No goals have been set <p>Comments: None</p> <p>ITEM 2: Now's the time to begin thinking about any curricular changes for Fall 2020 (catalog changes or syllabi changes). If changes needed, they need to be submitted to Curriculum Committee by October 2019.</p> <p>Comments: Micro- no changes; Nutrition-revised course LOs, submitted for Fall 2019; not sure - need to check</p>
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		<p>ITEM 3: OER or other types of free or reduced textbooks to review? If haven't done so yet, select a division representative to look into free textbook options.</p> <p>VERA mentioned her research into Micro OpenStax:</p> <ol style="list-style-type: none"> 1. Book does not look bad but all support material still not there yet. 2. PowerPoints were just a PPT with all the figures from book, no content 3. Test bank - had errors on the first test I looked at 4. Went to a webinar with lab archives - felt it was just other companies jumping on the free textbook and then using it within their product 5. Demonstration I saw was not ready and still very cumbersome 6. Got impression it was like embedding another LMS into our LMS 7. Other folks also commented on the quality of diagrams and content in the OpenStax they had seen 8. We decided as a group that the OER are not ready yet for RIGOROUS science courses <p>Marcela wanted to mention that there is an email from Jacob Gregory (McGraw Hill rep) about a new way to save students money, and asked everyone to find and read his email.</p> <p>From McGraw-Hill Education:</p> <p>Student Value provides required course materials to all students on the first day of class at an average savings of 70 % off print retail pricing. You can choose to have an eBook or a McGraw-Hill premium digital product delivered electronically through Canvas. The program is new to FSW for Fall 2019, but has been as huge success at many other Florida Schools.</p> <p>Pricing;</p> <p>Connect: Estimated retail to students through the bookstore: \$68</p> <p>Brytewave eBook: Estimated retail to students through the bookstore: \$50</p> <p>Jacob Gregory Learning Technology Representative Higher Ed Group C: 239-834-7296 jacob.gregory@mheducation.com Southwest Florida mheducation.com</p> <p>ITEM 4:</p> <p>Biology – stick with handouts or choose lab books for BSC1005 & BSC1010?</p> <p>Topic was tabled until the next meeting but there is a push to maybe use a company like Morton to take our labs and turn them into a manual to purchase. Most people in meeting were happy with the manual that was currently being used.</p> <p>Vera said the paper labs at Collier were working very well and we had no plans to switch.</p> <p>ITEM 5: Press contact volunteers for summer – provide contact information to Peggy.</p> <p>Martin is asking for someone to step up as the college science spokesperson for the summer in case media need someone to talk to. If someone is interested, please contact Peggy Romeo to let her know.</p> <p>NEXT MONTH'S MEETING: 4/12 (To be determined) - At the Thomas Edison Campus!</p>
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		<p>Just to be aware, Martin is requesting we get together for a face to face department meeting for our final meeting of the semester. It may end up being scheduled on a different day other than our regularly scheduled “second Friday of the month” and it will be on the Thomas Edison campus (Lee). Stay tuned for the announcement of when the meeting will take place...as it may be moved until after final exams but before graduation.</p>
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<i>Discipline Group Discussions</i>		
<i>No.</i>	<i>Group</i>	<i>Highlights</i>
3.	<p>Environ/Ocean/Earth Science/Geology</p> <p>Meeting was facilitated, and minutes were prepared by <i>Jon McKenzie</i></p>	<p>Review of Assessment/Goals 2018/19</p> <ul style="list-style-type: none"> Goals for 2018/19 were to get assessments created. EVR common final was created, ESC still a work in progress as we try and ensure Online/Ground are meeting the same outcomes. Mike Sauer has gone through L.O. and created module outcomes from the book. All faculty who teach EVR will be invited to look over these outcomes and assemble a high-quality assessment. <p>2019/2020 Goals</p> <ul style="list-style-type: none"> Have meaningful assessments created for Fall 2019/2020 for ESC and EVR courses. Mike and Jon will sit down and ensure all L.O.s are being met for ESC ground/online courses. From there we will develop/modify L.O.s and look at module outcomes to establish the course’s first common assessment.

<i>Discipline Group Discussions</i>		
<i>No.</i>	<i>Group</i>	<i>Highlights</i>
4.	<i>Chemistry</i>	Chemistry faculty did not meet; therefore, no minutes were submitted.

Discipline Group Discussions

No.	Group	Highlights
5.	A&P/HSC Meeting was facilitated, and minutes were prepared by <i>Jay Koepke</i>	<ul style="list-style-type: none"> • Comments on current books – Tortora textbook and Allen Lab manual • Currently only resources we have to give to incoming adjuncts. If we go to OER we will need to come up with a “packet” of resources. • Currently most faculty use Lab manual as it is a requirement. Some would be willing to review other options. No other options presented. Some faculty have developed their own labs. Esmaeel offered to share some of his resources. • Tortora textbook could be replaced with an OER (such as Openstax) – some faculty offered to pilot this upcoming summer/fall. • Keep in mind if we don’t use Tortora textbook we cannot use their PowerPoints. • Comments on OER <ul style="list-style-type: none"> ○ Only resource brought to the table was Openstax. Erik Fay will pilot this book this summer and Leonel Mera currently makes Openstax available to his students. ○ A Canvas Shell will be established to serve as a repository for shared resources. These can be faculty developed or open resources from OER. ○ No change made for Fall 2019. We will continue to make Tortora the required textbook and Allen the required Lab Manual for both BSC1085C and BSC1086C.

**Minutes edited, correlated, and recorded by Dr. Peggy Romeo*