

SCIENCE DEPARTMENT MEETING MINUTES*

FRIDAY, FEBRUARY 11, 2022

FACULTY	PRESENT	ABSENT	EXCUSED
Anzalone, Gerald	X		
Cameron, Angus			X
Coman, Luminita	X		
Coman, Marius	X		
Commendatore, Eric	X		
Donini, Jordan	X		
Gaidos, Gabriel	X		
Hilton, Kim	X		
Hooks, Ed	X		
Koepke, Jay	X		
Lehigh, Corey	X		
Liu, Qin	X		
Lydon, Christina	X		
Manacheril, George	X		
Mason, Gregg	X		
McKenzie, Jonathan		X	
Nittis, Thalia			X
Ottman, Tina	X		
Pasishnyk, Serhiy	X		
Paudel, Yadab	X		
Porter, Emily	X		
Robinson, Judy	X		
Romeo, Peggy	X		
Samaliazad, Esmaeel	X		
Sauer, Mike	X		
Slisher, Jessica	X		
Tirado, Sandra			X
Ulrich, Melanie	X		
Vala, Teju	X		
Verga, Vera	X		
Witty, Mike	X		
Xue, Di	X		
Zalessov, Valentin	X		

ADJUNCT FACULTY/Guests			
Helena Kashleva	X		
Ann Mantell	X		
Ruth Davies	X		
Aynsley Salzman (McGraw-Hill)	X		
Erin Martin (McGraw-Hill)	X		
Tami Hodge (McGraw-Hill)	X		
Emily Streetman (McGraw-Hill)	X		
Ashley Gravelle (McGraw-Hill)	X		
Oscar Rattenborg	X		

Discussions		
No.	Topic	Highlights
1.	Meetings by Disciplines	For the February meeting, faculty met by disciplines in order to review and make decisions for the Fall 2022 textbooks.
2.	Biology/Nutrition /Micro <i>Meeting facilitated by Peggy Romeo</i> <i>Minutes submitted by Peggy Romeo</i>	<p>Faculty met @ 1:00 pm to discuss textbooks. An email had been sent out regarding BSC1005 textbooks and it was confirmed during this meeting that there would be no changes to the Pearson textbook in this course for the Fall 2022.</p> <p>BSC1010/BSC1011: Faculty agreed to keep the same McGraw-Hill textbook for the upcoming fall semester. Representatives from McGraw-Hill were invited to discuss purchasing options for students. One option faculty were interested in was the Inclusive Access. The book reps did not have a price list for this option but agreed to send the prices via email by the end of the following week. Faculty decided to wait for the email before choosing how students would access their textbooks. Since we need to get the textbook information to Andy soon, faculty agreed to simply roll over this semester's options for Fall 2022 if we don't hear from McGraw within a week, or if the Inclusive Access fails to save the students money.</p> <p>The meeting ended at 3:00 pm.</p>
3.	Physics/Astro <i>Meeting facilitated by Marius Coman</i> <i>Minutes submitted by Marius Coman</i>	<p>The group discussed the textbook adoptions for Summer 2022 and Fall 2022. There are no changes; textbooks are the same as the ones used for Fall 2021. Textbook info will be sent to Andy preferably in 1 email or if requested by Andy in separate emails by course supervisors.</p> <p>PHY 1020C FUNDAMENTALS OF THE PHYSICAL WORLD Recommended only Conceptual Physics, 12/e, Hewitt, ISBN: 9780321909107, PEARSON</p> <hr/> <p>PHY 1007C PHYSICS FOR THE HEALTH SCIENCES 1 required material Physics with Health Science Applications, 2/e (2017), Urone and Tremblay (with Access) ISBN: 9781524950620, KENDALL HUNT</p> <hr/> <p>PHY 2053 COLLEGE PHYSICS I 1 required material College Physics PHY 2053, 11/e (2018) (Custom), Serway and Vuille (e-Pack/Loose-Leaf Version/WebAssign Instant Access/12-months) ISBN: 9781337741637, CENGAGE OER: George Manacheril's, No required material</p> <hr/> <p>PHY 2054 COLLEGE PHYSICS II 1 required material</p>

		<p>College Physics PHY 2053, 11/e (2018) (Custom), Serway and Vuille (e-Pack/Loose-Leaf Version/WebAssign Instant Access/12-months) ISBN: 9781337741637, CENGAGE OER: George Manacheril's, No required material</p>
		<p>PHY 2053L COLLEGE PHYSICS I LAB No required materials</p>
		<p>PHY 2054L COLLEGE PHYSICS II LAB No required materials</p>
		<p>PHY 2048 GENERAL PHYSICS I 1 required material Fund of Physics: Extended Edition, 11/e, Halliday and Resnick, (eText with Wiley Plus), ISBN: 9781119306856, WILEY OER: George Manacheril's 2049 class</p>
		<p>PHY 2049 GENERAL PHYSICS II 1 required material Fund of Physics: Extended Edition, 11/e, Halliday and Resnick, (eText with Wiley Plus), ISBN: 9781119306856, WILEY OER: George Manacheril's 2049 class</p>
		<p>PHY 2048L GENERAL PHYSICS I LAB No required materials</p>
		<p>PHY 2049L GENERAL PHYSICS II LAB No required materials</p>
		<p>AST 2002C ASTRONOMY ground only 1 required material The Essential Cosmic Perspective, 8/e, Bennett, (without Access Code) ISBN: 9780321928085, PEARSON online only no required materials</p>
		<p>ISC 1001C FOUNDATIONS INTERDIS SCIENCE I ground only Recommended only Integrated Science, 8/e, Tillery, ISBN: 9781260721485, MCGRAW HILL online only No required materials</p>
4.	<p><i>Envir/Ocea/Earth</i> <i>Meeting facilitated by Mike Sauer</i> <i>Minutes submitted by Mike Sauer</i></p>	<p>Attendees: Michael Sauer (host), Judy Robinson, Sandra Tirado, Emily Porter, Jordan Donini</p> <p>Mike Sauer checked with Amanda Botts, Pearson representative, about editions of Pearson texts for Oceanography, Earth Science, Environmental Science – all ISBNs related to course will remain available in Fall 2022 – no new or planned updates to these texts were noted.</p>

		<p>The group discussed NY Times-based Pearson lab activities in EnvSci – Sandra noted that library access to NY Times was easily attained to get to the proper article which is freely available through FSW.</p> <p>Mike Sauer noted that there were small revisions in the EnvSci master course assignments or modules section that provided clearer directions of fixed error/typos that might have been present.</p>
<p>5.</p>	<p><i>Chemistry</i></p> <p><i>Meeting facilitated by Eric Commendatore</i></p> <p><i>Minutes submitted by Eric Commendatore</i></p>	<p>Chemistry faculty decided that there would be no change to CHM 2032/L, CHM 2045/L, CHM 2046/L, CHM 2210/L, and CHM 2211/L.</p> <p>For CHM 2025 there is no formal change on the textbook as many adjuncts still use it, but there is an OER option. For CHM 2025L The textbook is longer supplied, and we will have to use our own experiments. There is a hesitation to adjust the changes on canvas shells because compensation has not yet been determined.</p> <p>ISBNs: 2032 - ISBN-13: 978-1-285-13062-0 2045/2046 - ISBN-13: 978-1-947172-64-7 (openstax) 2210/2211 - ISBN-13:978-0-13-404228-2</p> <p>All labs use our own resources and there is no more textbook for adoption.</p>
<p>6.</p>	<p><i>A&P</i></p> <p><i>Meeting facilitated by Jerry Anzalone</i></p> <p><i>Minutes submitted by Jerry Anzalone</i></p>	<p>Meeting began @ 10:00 am</p> <p>In attendance: Anzalone, Gerald (scribe); Hooks, Ed; Koepke, Jay (A&P 2 course supervisor); Lehigh, Corey; Mason, Gregg; Rattenborg, Oscar; Samaliazad, Esmaeel; Vala, Teju (A&P 1 course supervisor)</p> <p>Discussion:</p> <p>1. Textbooks</p> <ul style="list-style-type: none"> • 4 out of 13 faculty are using OER OpenStax Anatomy & Physiology • 9 out of 13 faculty are using Tortora, Principles of Anatomy & Physiology, 16th ed. • 10 out of 13 faculty create their own lab activities. Three are using lab manuals. Dr. Hooks reminded us that: <ul style="list-style-type: none"> ✚ If we list a resource in our syllabi, we must use it. ✚ The department sets the policy of using one textbook for each course. ✚ The exception to the one-book policy is OER. • Dr. Samaliazad reminded us that FSW has created an OER institute with the goal of creating its own course textbooks. • The OER institute needs images that can be used. • Dr. Anzalone stated that Creative Commons-licensed images may be used with attribution from Wikimedia Commons (including many of those used in OpenStax OER). Additional images may be used for

		<p>educational purposes with attribution from the NIH on Flickr and Medicalgraphics.de.</p> <ul style="list-style-type: none"> • Conclusion: No textbook change will be implemented. Tortora, Principles of Anatomy & Physiology, 16th edition remains the required textbook. However, instructors may individually choose to use OER instead. <p>2. Revision of Common Assessment:</p> <p>The current A&P common assessment is riddled with multiple problems:</p> <ul style="list-style-type: none"> • Current results make us look incompetent. • Revising two 30 question tests is difficult and time consuming. • Because we use the same test every semester for years, there is a significant question of test integrity. • Does not account for initial student knowledge. • Cannot track class progress over a semester. • Many of the current test questions are too specific and too difficult. • Test questions need to be “C” level questions. <p>Dr. Hooks proposed a pre-test/post-test format:</p> <ul style="list-style-type: none"> • 5 – 10 questions, one each from selected course outcomes. • Not necessary to test all outcomes on each test. • Test 1st administered second class of semester. • 2nd administration given at end of semester after all material covered. • Tests given to Assessment office for analysis. • Results given to us following semester. <p>Proposed time frame:</p> <ul style="list-style-type: none"> • This semester: produce test. • 1st semester (Fall): 1st administration of test. • 2nd semester (Spring): consider results and propose instructional changes. • 3rd semester (Fall): Implementation of changes and 2nd administration of test. • 4th semester (Spring): consider results, propose any additional instructional changes, and produce new test to start a new cycle. <p>Pros:</p> <ul style="list-style-type: none"> • Less time consuming overall. • Will account for initial student knowledge. • Can evaluate change in student knowledge during a semester. • Decreased chance of compromised test security. <p>Cons:</p> <ul style="list-style-type: none"> • Must test twice each fall. • We must be active every semester.
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		<p>Paper only vs. Canvas-accessible.</p> <ul style="list-style-type: none"> • Proctorio provides security for Canvas quizzes. • Dr. van Gaalen’s office can access the data from Canvas quizzes for analysis. • Ground courses may use paper tests with Scantron forms as usual. <p>We must align each assessment question we create with a course objective. Our current course objectives on the syllabi are too specific.</p> <ul style="list-style-type: none"> • Dr. Anzalone suggested, as a starting point for consideration and discussion, the following examples of revised course objectives for our syllabi: • Identify the selected anatomy of each body system. • Explain the major functions of the anatomy of each body system. • Describe the key physiological mechanisms underlying the functions of the anatomy of each body system. • Analyze the role of each body system in maintaining homeostasis. • Examine selected diseases and disorders of each body system. <p>Conclusions:</p> <ul style="list-style-type: none"> • The former A&P common assessment will not be used while we implement this pilot study. • Dr. Hooks has discussed his proposal with Dr. van Gaalen and has his approval. • This proposal will satisfy SACSCOC requirements. • We will move forward with Dr. Hooks’ proposal with some minor adjustments possibly made to the time frame. • Course supervisors will give further direction. • Faculty participation will be solicited throughout the process. • No objections raised by those in attendance. <p>3. Minutes from Charlotte Science Committee Meeting:</p> <p>February 9, 2022 1:30 – 2:30 PM</p> <p>In attendance: Calvano, Jacqueline; Anzalone, Gerald; Mason, Gregg; Lydon, Christina; Robinson, Judy; Laudan, Ralph</p> <p>A. Item: Charlotte campus open house (Monday, March 1st, 3:30 – 6:30 PM).</p> <ul style="list-style-type: none"> • Jacque will assist Professor Robinson with a hydroponic gardening display for biology. • Dr. Laudan will assist Jacque in setting up the A&P display, before his class begins. • Dr. Mason and Dr. Anzalone will represent A&P using anatomic models and interactive demonstrations. Dr. Anzalone will appear in a pirate costume to reflect the “FSW Science Buccaneer” theme to help draw interest to the science displays. • Dr. Lydon will create an interactive chemistry display.
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7.	Next Department Meeting	The next meeting, scheduled for March 11 @ 1:00 via Zoom, will be followed by discipline breakouts for discussion of textbook adoptions.

**Minutes were compiled, recorded & submitted by Dr. Peggy Romeo*