

PHYSICS CLUSTER AGENDA/MINUTES Wednesday, October 19, 2016 10:30 – 11:30 & 1:30 – 2:00 Lake Worth Campus Room NS 124

ITEM I. Group Discussion: "Risk Analysis: Implementing Guided Pathways.

The Process

We ask that you decide to have one large group discussion or to have smaller group discussions based on the number of members in your Cluster. Each group must complete the two forms "Risk Analysis: Implementing Guided Pathways" below. Please have a recorder for each group type the results using these forms and send them to Angie Dunn by October 31. The information provided by each Cluster will be analyzed by the Guided Pathways Task Force (that is still being formed) and will be instrumental in the development of the continuing college-wide discussion.

Attached is one PowerPoint slide that you should have projected or printed during your Cluster meeting to assist with the discussion. This slide compares the Cafeteria Model with the Guided Pathways Model.

GROUP QUESTION #1: When considering a Guided Pathways Model, what could the benefits and challenges be for students? (Approximately 30 minutes)

GROUP QUESTION 2: When considering a Guided Pathways Model, what could the benefits and challenges be for the College? (Approximately 30 minutes)

The following additional questions for Group Facilitators may be used to keep the discussion going (if needed):

- 1. Is the current self-service or "the cafeteria model" working for our students?
- 2. How do we help new students choose a program of study, particularly the many who do not have clear plans for college and careers?
- 3. How well do we monitor students' program choices and progress towards completing their program's requirements?
- 4. Does the way we schedule courses enable students to take courses when they need them and complete their program on time?

Discussion: A packet for this discussion will be handed out at the cluster meeting.			
Action: Discuss and record our discussion in the attached packet			
Cluster:Physics	Completed by: _Prof. Jerry O'Brien, Scribe		

Risk Analysis: Implementing Guided Pathways

Benefits for Students	Challenges for Students
1) Implementing the Guided Pathways Model is a good idea. The cluster is wondering why the college has never done it before. 2) Adequately advising students would be a great benefit	 Challenges for Students Finding appropriate and competent advising. Students can, sometimes, get in too deep with a too narrow focus for their education and it becomes impractical or impossible to change. Attending mandatory advising sessions. Balance life, work and school. How prepared and willing are students to actually implement and utilize the academic advice they receive.

Risk Analysis: Implementing Guided Pathways			
Benefits for College	Challenges for College		

ITEM II. Follow up from previous cluster meeting. Has this issue been addressed yet by anybody? A question was raised regarding observations and evaluations of adjunct professors in lab settings.

Discussion: Are adjunct professors observed with regard to the appropriateness and quality of the labs

they are teaching? There are some concerns that adjunct professors are doing labs with their classes that are too simplistic and some adjunct professors are not using textbooks

approved by the cluster.

Action: It was suggested by the cluster that these concerns should be addressed to the department

chair on their campus. And, adjunct faculty should be reminded to use textbooks and lab

resources that have been approved by the full time faculty in the cluster.

Follow up action: According to department heads in the math and science department, adjunct faculty

appear to be following departmental guidelines for labs and textbooks.

ITEM III Assessment Coordinator Introduction (for clusters with Gen Ed courses).

Assessment coordinators will be at cluster meetings for about five minutes for a brief introduction and reminders at the beginning of the afternoon meetings. No discussion

is required, but questions are welcome.

Discussion: Q&A regarding Gen Ed assessments

Data source: General Education Assessments for Physical Sciences

http://www.palmbeachstate.edu/learningoutcomes/assessment-resources.aspx

Action: n/a

ITEM IV General Education Assessment (for clusters with Gen Ed courses)

Clusters should discuss the common embedded assessment, specifically confirming the following information in the meeting minutes.

- 1. Do all full-time faculty members in your cluster have the current information?
- 2. Do all adjuncts teaching courses in your cluster have the current information?
- 3. How many are present at today's cluster meeting, and of those present, how many attended the campus meeting last spring to review embedded assessment results? (Please submit numbers, no names!)

Discussion:

- 1. Do all full-time faculty members in your cluster have the current information? Yes
- 2. Do all adjuncts teaching courses in your cluster have the current information? Unknown
- 3. How many are present at today's cluster meeting, and of those present, how many attended the campus meeting last spring to review embedded assessment results? (Please submit numbers, no names!) 11 faculty present today, 10 of those were present last spring to review the embedded assessment results.

Attendance: Andy Trupin, Daryl Walke, Roxana Melendez, Ed Knuckles, Jang-Young Bang, William Miner, Steve Stemle, Lily Jordan, Oleg Andric, Marie Grasso, Jerry O'Brien.

Submitted by: Prof. Jerry O'Brien, Scribe

Current Textbook Adoptions for 2016 – 2017

TEXTBOOK ADOPTIONS for the Academic Year: 2016-2017 (Last Update 10/19/2016)

Descriptive Astronomy

Course Title and Number: Descriptive Astronomy – AST 1002

Current Textbook: Astronomy: A Beginner's Guide to the Universe by Chaisson & McMillan, 8th

Edition, ISBN-13:978-0-134-08770-2

Publisher: Pearson Copyright: September 2017 First Semester for Current Edition: Fall 2016 Last Semester for Current Edition: Unknown

Planetary Astronomy

Class discontinued by Physics Cluster 3/26/2014

Course Title and Number: Planetary Astronomy – AST 1003

Stellar and Galactic Astronomy

Class discontinued by Physics Cluster 3/26/2014

Course Title and Number: Stellar and Galactic Astronomy – AST 1004

Earth Science

Course Title and Number: Earth Science – ESC 1000

Current Textbook: Earth Science by Tarbuck, Lutgens, and Tasa, 14th Edition, ISBN-10 (soft

cover version): 978-0-321-92809-2

Publisher: Pearson/Prentice Hall Copyright: 2012, 2015

First Semester for Current Edition: Fall 2014 Last Semester for Current Edition: Spring 2018

Earth Science (Study Guide available but not required)

Course Title and Number: Earth Science – ESC 1000

Study Guide: Study Guide by Hatfield and Pinzke, 13th Edition, ISBN-10: 0321714857 / ISBN-

13: 9780321714857

Publisher: Pearson/Prentice Hall Copyright: 2012

First Semester for Current Edition: Fall 2011 Last Semester for Current Edition: Unknown

For Professor Jang-Young Bang Earth Science classes:

Course Title and Number: Earth Science – ESC 1000

Current Textbook: Earth Science plus Mastering Geology with e-Text -Access Card Package

by Tarbuck, Lutgens, and Tasa, 14th Edition,

ISBN: 10: 0321934431 or ISBN: 13: 9780321934437

Publisher: Prentice Hall Copyright: 2015 First Semester for Current Edition: Fall 2014 Last Semester for Current Edition: Unknown

Textbook required in Professor Jeffrey J. Sundquist's face-to-face class; optional for other sections.

Course Title and Number: Earth Science – ESC 1000

Current Textbook: <u>Applications and Investigations in Earth Science</u> by Tarbuck, 2nd custom edition for Palm Beach State College, ISBN-10: 1256067032/ISBN-13:9781256067030

Publisher: Pearson/Prentice Hall Copyright: 2012 First Semester for Current Edition: Fall 2011 Last Semester for Current Edition: Summer 2014

Descriptive Geology

Course Title and Number: Descriptive Geology – GLY 1000

Current Textbook: Earth: An Introduction to Physical Geology by Tarbuck, 11th Edition,

ISBN 13: 978-0-321-81406-7

Publisher: Pearson/Prentice Hall Copyright: January 2014

First Semester for Current Edition: Fall 2013
Last Semester for Current Edition: Unknown

Course Title and Number: Descriptive Geology – GLY 1000

Current Textbook: Earth: An Introduction to Physical Geology by Tarbuck, Lutgens and Tasa,

12th Edition,

ISBN 13: 978-0-13407425-2

Publisher: Pearson/Prentice Hall Copyright: January 2017

First Semester for Current Edition: Fall 2016 Last Semester for Current Edition: Unknown

Introduction to Oceanography

Course Title and Number: Introduction to Oceanography – OCE 1001

Current Textbook: Investigating Oceanography by Keith A. Sverdrup & Raphael M. Kudela,

2nd Edition, ISBN: 978-0-07-802293-7

Publisher: McGraw Hill

Copyright: 2014

First Semester for Current Edition: Fall 2016 Last Semester for Current Edition: Unknown

Applied Physics for Professor Jang-Young Bang classes:

Course Title and Number: Applied Physics -- PHY1001 (Prof. Jang-Young Bang)

Current Textbook: No textbook is required. Students may use Openstax, any algebra based physics textbook, or any of the recommended textbooks by the professor to enhance their learning.

Course Title and Number: Applied Physics – PHY 1001

Current Textbook: Physics Principles with Applications, Books a la Carte Plus Mastering

Physics eText – Access Card Package. by Douglas Giancoli, 7th edition,

ISBN 10:0321929012; or ISBN 13: 9780321929013

Publisher: Addison - Wesley Copyright: 2014

First Semester for Current Edition: Spring 2014

Last Semester for Current Edition: Unknown

Course Title and Number: Physics with Calculus I – PHY 2048

Current Textbook: Physics for Scientists and Engineers by Serway & Jewett, 9th Edition,

ISBN: 978-1-305-71489-2: Loose-Leaf Binder + Enhanced WebAssign Printed Access Card

(multi-term)

ISBN: 978-1-285-85841-8: Digital Package, E-Book with WebAssign (multi-term)

Publisher: Cengage Learning Copyright: 2016 First Semester for Current Edition: Fall 2016 Last Semester for Current Edition: Unknown

For Professor Jang-Young Bang classes:

General Physics with Calculus I

Course Title and Number: General Physics with Calculus I – PHY2048

Current Textbook: No textbook is required. Students may use any calculus based Physics textbook, or

any of the recommended textbooks by the professor to enhance their learning.

Publisher: Copyright:

First Semester for Current Edition: Fall 2015 Last Semester for Current Edition: Unknown

General Physics I and General Physics with Calculus I Laboratory

Course Title and Number: General Physics I and General Physics with Calculus I Laboratory –

PHY 2048L

Current Laboratory Manual: Physics Laboratory Experiments by Wilson, 6th Edition, ISBN 0618382593, ISBN 0618564276 (customized edition used at the Boca Raton campus)

Publisher: Houghton-Mifflin Copyright: 2005 First Semester for Current Edition: Fall 2006 Last Semester for Current Edition: Summer 2010

Course Title and Number: General Physics I with General Physics with Calculus I Laboratory—

PHY 2048L

Current Textbook: PHY 2048L Lab Manual, Fourth Edition, by Carlos F. Ramos, ISBN 978-1-

4652-4801-5

Publisher: Kendall Hunt Publishing Company

Copyright: 2009, 2011, 2013, 2014

Note: This textbook is not required for Prof. Jang-Young Bang's classes.

First Semester for Current Edition: Fall 2011 Last Semester for Current Edition: Unknown

Physics with Calculus II

Course Title and Number: Physics with Calculus II – PHY 2049

Current Textbook: Physics for Scientists and Engineers by Serway & Jewett, 9th Edition,

ISBN: 978-1-305-71489-2: Loose-Leaf Binder + Enhanced WebAssign Printed Access Card

(multi-term)

ISBN: 978-1-285-85841-8: Digital Package, E-Book with WebAssign (multi-term)

Publisher: Cengage Learning Copyright: 2016 First Semester for Current Edition: Fall 2016 Last Semester for Current Edition: Unknown

For Professor Jang-Young Bang classes:

General Physics with Calculus II

Course Title and Number: General Physics with Calculus I – PHY2049

Current Textbook: No textbook is required. Students may use any calculus based Physics textbook, or

any of the recommended textbooks by the professor to enhance their learning.

Publisher: Copyright:

First semester for Current Edition: Fall 2015 First semester for Current Edition: Unknown

General Physics II and General Physics with Calculus II Laboratory

Course Title and Number: General Physics II and General Physics with Calculus II Laboratory

- PHY 2049L

Current Laboratory Manual: Physics Laboratory Experiments by Wilson, 6th Edition, ISBN

0618382593, ISBN 0618564276 (customized edition used at the Boca Raton campus)

Publisher: Houghton-Mifflin Copyright: 2005 First Semester for Current Edition: Fall 2006 Last Semester for Current Edition: Summer 2010

Note: Professors at the Lake Worth campus use the manual below.

Course Title and Number: General Physics II with General Physics with Calculus II Laboratory

- PHY 2049L

Current Textbook: PHY 2049L Lab Manual, Fourth Edition, by Carlos Ramos, ISBN 978-1-

4652-4802-2

Publisher: Kendall Hunt Publishing Company

Copyright: 2009, 2011, 2013, 2014

Note: This textbook is not required for Prof. Jang-Young Bang's classes.

First Semester for Current Edition: Fall 2011 Last Semester for Current Edition: Unknown

General Physics I

Course Title and Number: General Physics I – PHY 2053

Current Textbook: Physics by Cutnell & Johnson, Volume 1, 10th Edition, ISBN

9781119091547 - PDF version, vol 1 and vol 2 combined

9781119091578 - PDF version vol 1 only

(customized version of the 10th edition for PBSC w/ webassign access code)

Publisher: John Wiley & Sons. Inc. Copyright: 2015

Course Title and Number: General Physics I – PHY 2053 (Prof. Jang-Young Bang)

Current Textbook: No textbook is required. Students may use Openstax, any algebra based physics textbook, or any of the recommended textbooks by the professor to enhance their learning.

General Physics II

Course Title and Number: General Physics II – PHY 2054

Current Textbook: Physics by Cutnell & Johnson, Volume 2, 10th Edition, ISBN

9781119091547 - PDF version, vol 1 and vol 2 combined (if purchased previously in phy 2053 -

do not need to purchase again)

9781119091592 - PDF version vol 2 only

(customized version of the 10th edition for PBSC w/ webassign access code)

Publisher: John Wiley & Sons. Inc. Copyright: 2015

Physical Science for Today's World

Course Title and Number: Physical Science for Today's World – PSC 1341

Current Textbook: Conceptual Physics by Hewitt, 12th Edition, ISBN 13: 978-0-321-909107

Publisher: Paul Hewitt/Addison Wesley **Copyright**:

First Semester for Current Edition: Fall 2015 Last Semester for Current Edition: Unknown

For Professor Jang-Young Bang classes:

Course Title and Number: Physical Science for Today's World - PSC 1341

Current Textbook: Conceptual Physics by Hewitt, 12th Edition bundled with "Mastering"

Physics" online, ISBN 978-0-32193578-6

Publisher: Paul Hewitt/Addison Wesley Copyright: 2014

First Semester for Current Edition: Spring 2015 Last Semester for Current Edition: Unknown