

**PHYSICS CLUSTER MINUTES**

**October 13, 2015**

**1:30pm to 3:30pm**

**Lake Worth Campus**

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**ITEM 1.** What can faculty do to support the four Performance Funding measures (Job Placement/Continuing Education, Completion to 3-4 years, Retention, and Entry Level Wages)?

Discussion: Prof. Andric believes that the department chairs in all of the A.S. programs should have access to student transcripts and the PantherWeb to better advise students. The physics cluster was in unanimous agreement.

Data/data source:

Action: Physics Cluster would like to request access to student transcripts to better advise students.

**ITEM 2.** Review Cluster Minutes Guidelines -

<http://www.palmbeachstate.edu/academicservices/Documents/sectiong.pdf>

- A. Minutes should be prepared and distributed no more than one week after a cluster meeting is held.
- B. Minutes should be prepared using the standard minutes template located at <http://www.palmbeachstate.edu/academicservices/documents/TemplateClusterMinutes.doc>. Minutes must address any identified district issues set forth by the VPAA.
- C. Any cluster recommendations should be in writing and sent to the VPAA in addition to being in the cluster minutes.
- D. Any curriculum changes (new courses, revised courses, etc.) must be initiated through the established curriculum process (<http://www.palmbeachstate.edu/curriculum-development>).

Discussion: No discussion

Data/data source:

Action: No action

**ITEM 3.** (SCIENCE CLUSTER ONLY) Reminder to file paperwork to discontinue AST courses (AST1003 and AST1004).

Discussion: Prof. O'Brien will submit the appropriate documents to delete these courses.

Data/data source: <http://www.palmbeachstate.edu/academicservices/Documents/cdf.doc>

Action: Appropriate documentation to delete AST1003 and AST1004 has been submitted to Kathy Gamble in the office of Academic Services.

**Item 4.** Embedded Assessments: Professor Trupin informed the cluster that there might be a change in the embedded assessments for AST1002 Descriptive Astronomy.

Discussion: No other changes in embedded assessments are anticipated and Prof. Trupin will inform us of any changes to AST1002 embedded assessments at the next cluster meeting.

Action: No other action was taken at this time.

**Item 5:** Professor Jang-Young Bang proposed to the cluster that he plans to start using Openstax , free online textbooks, for PHY2053. There was no objection by the cluster and this change has been documented in the Physics Cluster textbook list for 2015-2016.

Discussion: The cluster agreed that this was an appropriate change.

Action: There was no objection and the textbook change has been recorded.

**Item 6:** Should the textbook for PHY2048 be changed from Serway & Jewett 7<sup>th</sup> ed. to Serway and Jewett 10<sup>th</sup> ed.?

Discussion: The physics professors in the cluster are reluctant to change textbooks at this time.

Action: PHY2048 will continue to use Serway & Jewett 7<sup>th</sup> ed. and the change to 10<sup>th</sup> edition will be discussed and the next cluster meeting.

**Item 7:** Professor Andric proposed changes to the Engineering Technology Program

Discussion: Professor Andric explained to the cluster changes that he has proposed to the Engineering Technology Program. These changes have been well documented and have been submitted to PBSC Curriculum Committee.

Action: Professor O'Brien moved that these changes be approved by the cluster. This motion was seconded by Prof. Jordan and was approved unanimously by the Physics Cluster.

**Other:** There was no other business and the meeting was adjourned at 3:30

Attendance: Andrew Trupin, Steven Stemle, Jerry O'Brien, Lilian Jordan, Marie Grasso, Jeffrey Sundquist, Oleg Andric, William Miner, Jang-Young Bang, Roxana Melendez

Submitted by:

Prof. Jerry O'Brien

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## TEXTBOOK ADOPTIONS for the Academic Year – 2015-2016

### Descriptive Astronomy

**Course Title and Number:** Descriptive Astronomy – AST 1002

**Current Textbook:** Astronomy: A Beginner's Guide to the Universe by Chaisson & McMillan, 7<sup>th</sup> Edition, ISBN-10 0321815351 / ISBN-13 978-0-321-815354

**Publisher:** Addison-Wesley    **Copyright:** September 2012

**First Semester for Current Edition:** Fall 2012

**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, 14<sup>th</sup> 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:** Unknown

### Earth Science (Study Guide available but not required)

**Course Title and Number:** Earth Science – ESC 1000

**Study Guide:** Study Guide by Hatfield and Pinzke, 13<sup>th</sup> 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

*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:** Applications and Investigations in Earth Science by Tarbuck, 2<sup>nd</sup> 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, 11<sup>th</sup> 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

## Introduction to Oceanography

**Course Title and Number:** Introduction to Oceanography – OCE 1001

**Current Textbook:** Invitation to Oceanography by Paul R. Pinet, 7<sup>th</sup> Edition, ISBN 13: 978-1284057072

**Publisher:** Jones and Bartlett Learning

**Copyright:** 2014

**First Semester for Current Edition:** Fall 2015

**Last Semester for Current Edition:** Unknown

## Applied Physics

**Course Title and Number:** Applied Physics – PHY 1001

**Current Textbook:** *Physics Principals with Applications, by Douglas Giancoli, 7<sup>th</sup> edition, ISBN 10:0321625927; ISBN 13:978-0321625922*

**Publisher:** Pearson/Prentice Hall **Copyright:** 2014

**First Semester for Current Edition:** Spring 2014

**Last Semester for Current Edition:** Unknown

## General Physics with Calculus I

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

**Current Textbook:** Physics for Scientists and Engineers by Serway & Jewett, 7<sup>th</sup> Edition, ISBN 0495747173 (customized version of the 7<sup>th</sup> edition for PBSC – Palm Beach State College)

**Publisher:** Cengage Learning **Copyright:** 2008

**First Semester for Current Edition:** Fall 2008

**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 – PHY 2048

**Current Textbook:** No Required Textbook; Free courseware will be used

**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, 6<sup>th</sup> 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

General Physics with Calculus II

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

**Current Textbook:** Physics for Scientists and Engineers by Serway & Jewett, 7<sup>th</sup> Edition, ISBN 0495747173 (Customized version of the 7<sup>th</sup> edition for – Palm Beach State College)

**Publisher:** Cengage Learning **Copyright:** 2008

**First semester for Current Edition:** Fall 2008

**First semester for Current Edition:** Unknown

***For Professor Jang-Young Bang classes:***

General Physics with Calculus II

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

**Current Textbook:** No Required Textbook, Free Courseware will be used

**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, 6<sup>th</sup> 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, 10<sup>th</sup> 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, 10<sup>th</sup> 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, 12<sup>th</sup> 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, 12<sup>th</sup> 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