PALM BEACH STATE COLLEGE

PHYSICS CLUSTER AGENDA
Thursday, March 26, 2015 1:00-4:00 PM
Lake Worth Campus Room NS 124

ITEM I. Karen Pain's Request for help with analysis of embedded assessment data

Discussion:

Professor Trupin opened the meeting. He stated that embedded assessment benchmarks could not be established because of inconsistency within the data and that the data variation is statistically insignificant.

Professor Jordan suggested that we propose a benchmark for the embedded assessments of 50%. Discussion on this topic included the cluster members' concerns that these benchmarks would eventually become part of the Faculty evaluation instrument just as other student success statistics have.

Professor Andric as well as everyone else in the meeting agreed that the consistency of the data, based on how it is collected from students would make any benchmark meaningless at this time.

Karen Pain agreed that the meaningfulness of the data is dependent upon a consistent implementation of the tests and that setting implementation standards would improve this. She stated that the type of implementation for each course was up to the cluster members who teach the courses.
Karen also indicated that SACs now wants a demonstration of student competency in General Education courses.
She went on to tell the cluster that the embedded assessment will remain the same through next Fall but after that we will be asked to consider if different Learning Outcomes and/or embedded assessments should be considered.
Karen indicated that IRE does not want to set arbitrary benchmarks and that is why we have been asked to review the embedded assessment data and suggest benchmarks for each course based on the data. The benchmarks should not be too high but should also show that a reasonable level of rigor is required to achieve that benchmark. She suggested that a benchmark be provided in a format indicating: "a specific percentage of students would answer a specific number or percentage of the assessment questions".

Action:

A discussion of the types of implementation ensued and each of the members agreed that the embedded assessments for each course would be included within a test that occurred as a regular

part of the course without the students having a prior knowledge that the specific assessment questions would be on that test.

In addition, the cluster members agreed to provide a specific benchmark for their courses prior to the April 30 deadline requested by Karen Pain.

ITEM II. Textbooks

Discussion:
Professor Bang indicated that he would no longer require a textbook be purchased for his courses PHS 2048 and 2049 beginning next Fall semester. He would use free courseware instead.

Professor Grasso indicated that the 12th edition of the current textbook (Hewitt) for PSC 1341 would be implemented next Fall semester

Professor Trupin indicated that the 7th edition of the current textbook used for Oceanography (OCE 1001) would be used beginning next Fall semester.

Action:

The attached textbook reference list was updated to include these changes.

ITEM III: Student Withdrawal Rates

Discussion:
Professor Trupin asked that the cluster consider what factors go into a student's decision to withdraw from a course and if there are any ideas about how withdrawal rates may be reduced.

Reasons for withdrawing were provided by several cluster members such as family problems, lack of student motivation, too much other work, childcare issues and scheduling problems etc…

Professor Jordan and Professor Andric as well as several other cluster members expressed the opinion that course standards should not be reduced to reduce withdrawal rates.

Professor O'Brien indicated that withdrawal is a better alternative than actually failing the class.

Professor Stemle suggested that the course requirements and standards be emphasized more frequently during the course

Action: None taken

ITEM IV: **Consideration of new "F" Failure designation**

Discussion:

The cluster discussed adding new grade designation for students failing a class because of cheating. This discussion was the result of a request by a professor from the Palm Beach Gardens campus because a student was caught entering her office and stealing two tests.

Professors Trupin and Stemle indicated that they were of the opinion that not all cheating was the same and that a permanent designation of Failure by cheating on a student's transcript should not be applied in all cases. This sentiment was generally agreed upon by the cluster members.

Professors Andric and Jordan suggested that there be a permanent designation for the most egregious acts of cheating as happened in the Palm Beach Gardens case.

Professors Stemle and Trupin indicated that in such a case it may be more appropriate to press criminal charges.

Action: None taken

ITEM IV: **Selection of Chair and Scribe for next year**

Action:

Nominations for Chair and Scribe for the next school year (2015-2016) were given as listed below:

Chair: Professor Stemle nominated Professor Trupin. The nomination was seconded by Professor Miner and Professor Trupin was elected by a vote of 9-0.

Scribe: Professor O'Brien was nominated by Professor Stemle. The nomination was seconded by Professor Grasso and Professor O'Brien was elected by a vote of 9-0.

Professor Trupin agreed to serve as Cluster Chair and Professor O'Brien agreed to serve as Cluster Scribe for the upcoming school year (2015-2016).

OTHER. There being no other business to discuss the meeting was adjourned at 4:00pm.

Attendance : Andrew Trupin, Steven Stemle, Jerry O'Brien, Lilian Jordan, Marie Grasso, Jeffrey Sundquist, Oleg Andric, William Miner, Jang-Young Bang, Carlos Ramos and Karen Pain

Submitted by:

Steven Stemle

Scribe

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, 7th 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

Textbook used by Professor Lilian R. Jordan only

Course Title and Number: Descriptive Astronomy – AST 1002
Current Textbook: Discovering the Essential Universe by Commins, 3th Edition, ISBN 071674595X
Publisher: W. H. Freeman **Copyright**:
First Semester for Current Edition: Fall 2005
Last Semester for Current Edition: Unknown

This supplement may be required by Professor Lilian R. Jordan

Course Title and Number: Descriptive Astronomy – AST 1002
Supplement: Lecture-Tutorials for Introductory Astronomy by Prather, Slater, Adams, and Brissenden, 2nd Edition, ISBN 9780132392266
Publisher: Addison-Wesley **Copyright:**
First Semester for Current Edition: Fall 2008
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: 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, 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

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, 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

Introduction to Oceanography

Course Title and Number: Introduction to Oceanography – OCE 1001
Current Textbook: Invitation to Oceanography by Paul R. Pinet, 7th 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, 7th edition, ISBN 10:0321625927; ISBN 13:878-0321625922***
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, 7th Edition, ISBN 0495747173 (customized version of the 7th 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, 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
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, 7th Edition, ISBN 0495747173 (customized version of the 7th edition for PBSC – 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, 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
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 One, 8th Edition, ISBN 9781118306321 (customized version of the 8th edition for PBSC – Palm Beach State College)
Publisher: John Wiley & Sons. Inc. **Copyright**: 2012
First Semester for Current Edition: Fall 2012
Final Semester for Current Edition: Unknown

General Physics II

Course Title and Number: General Physics II – PHY 2054
Current Textbook: Physics by Cutnell & Johnson, Volume Two, 8th Edition, ISBN 9780470379257 (paperback)
Publisher: John Wiley & Sons. Inc. **Copyright**: 2009
First Semester for Current Edition: Fall 2009
Final Semester for Current Edition: Summer 2012

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
Workbook: Practicing Physics
ISBN: 13:978-0-0321-66256-9

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 13: 978-0-321-909107
Publisher: Paul Hewitt/Addison Wesley **Copyright**: 2014
First Semester for Current Edition: Spring 2015
Last Semester for Current Edition: Unknown