Welcome and call to order. Dr. Kerry Purmensky, chair, called the meeting to order at 2:35 p.m. and welcomed the committee and guests. A quorum was established. The minutes from the October 26, 2016 meeting were reviewed and approved.

Reactivation of CBA Economics MS, effective Fall 2017. Dr. Taylor Ellis gave background of suspension in 2009 due to faculty loss. He also noted that there are now sufficient faculty to offer the program, students are interested in it, and the Department of Economics requests its reactivation. It was confirmed that no program review was conducted during the suspended period. This request received unanimous approval.

Addition of COS Big Data Analytics PhD, effective Fall 2018. Dr. Shunpu Zhang gave an overview of this new PhD program, which will train researchers with a statistics background to analyze massive, structured or unstructured data to uncover hidden patterns. The program will provide a strong foundation in the major methodologies associated with Big Data Analytics. The program builds on the Data Mining MS program faculty and Dr. Zhang was hired to lead the new PhD program. Dr. Zhang also reviewed the associated new courses in the Course Agenda. This request received unanimous approval.

No equipment fees to review this year.

Materials and Supplies Fee Requests. UCF is not allowing increases or new materials and supplies fee requests this year. The committee reviewed the Graduate M&S Fee Agenda, which included a list of fees for five-year review. The committee approved all fee requests (17 at same rate, 2 at decreased rate) on the November 9 agenda.

Courses and special topics. For a list of approved courses, see the attached course minutes. The November 9 course agenda also included most of the courses that needed five-year review.

Adjournment. The meeting adjourned at 3:30 p.m. The next meeting is on January 25, 2017.
Course Minutes – DRAFT
November 9, 2016

All courses have been approved unless otherwise noted. Any notations refer to the course below the notation.

1. Course Additions

**College of Arts and Humanities Course Additions**

TPP 6XXX  CAH-THEA  2(2,1)

**Acting Studio V**: PR: TPP 6267. An advanced acting course which will explore and develop specialty areas of actor training. *Odd Spring.*

Abbrev: *(15 of 30 chars)* Acting Studio V

Rationale: Additional acting class is required to enhance the quality of the training program.

Majors taking course: MFA Acting

**College of Education and Human Performance Course Additions**

Tabled 10/26/2016. Needs discussion with Communication Sciences and Disorders and with Psychology.

EEX 6XXX  ED-CFCS  3(3,0)

**Advanced Behavior Analysis**: PR: EEX 6612. This course prepares practitioners to use the principles of advanced behavior analysis (ABA) to assess and teach communication skills to individuals with autism and develop knowledge of current augmentative and alternative communication (AAC) technology. *Summer.*

Abbrev: *(3 of 30 chars)* ABA

Discussion with others: At this time, there are no courses on the books at the advanced behavior analysis level. The EEX 6612 methods of behavior management is a required course prior to entering the Advanced behavior analysis course. Content in the new course will build off of EEX 6612 into more advanced and complex systems of behavior analysis.


**College of Engineering and Computer Science Course Additions**

Tabled 10/26/2016, with 1 opposed. Needs discussion with Biomedical Sciences.

EEL 5XXX  ECS-ECE  3(3,0)

**Advanced Bioelectronics Systems**: PR: EEE 4309C or C.I. Advanced bioelectronics systems and techniques that enable recent biophysical and biomedical research will be discussed. *Spring.*

Abbrev: *(30 of 30 chars)* Advanced Bioelectronics System

Discussion with others: Discussed with Biomedical Engineering and with NSTC; no overlaps or conflicts found. Pending discussion with Biomedical Sciences.
Rationale: In recent years, electronics systems and instrumentations became an essential tool for the advances in biotechnology and biosciences that deal with numerous issues associated with noise, gain-bandwidth and throughput, for instance, single-cell electrophysiology and single-molecule measurement. As the industrial and academical interests grow rapidly in biotechnology, students advancing their career in biotechnology need fundamental understanding of common challenges and techniques in advanced bioelectronics systems.

Especially with UCF starting a Biomedical Engineering program for MS (and Ph.D. in the future), this class will give a strong presence of Electrical and Computer Engineering to students who have interest in the field of Biomedical Engineering.

College of Nursing Course Additions
Tabled 11/9/2016. Needs further discussion and resolution with Anthropology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>PR</th>
<th>Description</th>
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<tbody>
<tr>
<td>NGR 6XXX</td>
<td>Global Health in Action</td>
<td>Admission to Graduate Nursing Program or C.I.</td>
<td>Overview of health from a global perspective, synthesizing the theory and practice of global health. Summer.</td>
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<tr>
<td></td>
<td>Abbrev: (21 of 30 chars)</td>
<td></td>
<td>Global Hlth in Action</td>
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<tr>
<td></td>
<td>Repeat For Credit: True</td>
<td>Max Times: 2</td>
<td></td>
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<tr>
<td></td>
<td>Discussion with others: See emails</td>
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<tr>
<td></td>
<td>Rationale: A major revision reflecting current issues in global health</td>
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<td>Majors taking course: Not applicable</td>
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College of Sciences Course Additions

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<tr>
<th>Course Code</th>
<th>Title</th>
<th>PR</th>
<th>Description</th>
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<tbody>
<tr>
<td>PCB 6XXX</td>
<td>Global Change Biology</td>
<td>Graduate standing, or C.I.</td>
<td>Examination of global climate change science applied to biological systems. Topics include: physical basis, physiological and evolutionary responses, range shifts, biogeochemical cycles, disturbance, uncertainty, and effective communication. Odd Spring.</td>
</tr>
<tr>
<td></td>
<td>Abbrev: (17 of 30 chars)</td>
<td></td>
<td>Global Change Bio</td>
</tr>
<tr>
<td></td>
<td>Discussion with others: The Biology dept. currently has no graduate level courses that address global climate change in any detail. I have spoken with the instructors of the 3 courses that could potentially present similar materials (PCB 6042 Conservation Biology Theory, PCB 6046 Advanced Ecology, and PBC 6053C Restoration Ecology). All indicated the overlap will be none or extremely limited, and that they see the course as a valuable addition to the graduate curriculum. Attached is communication from Anthropology, PoliSci &amp; Civil, Environmental and Construction Engineering.</td>
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</table>
Rationale: Global climate change drives a variety of shifts in the physiochemical composition and functioning of our environment, which cascades into significant effects on biological systems. All graduate students obtaining degrees in Biology/Conservation Biology today need to have a strong foundational knowledge of the causes and consequences of global change, including the ability to think critically and evaluate the abundance of new scientific data emerging on the subject of climate change. This course will achieve that goal, as well as help students evaluate the potential role of global change in their own scientific endeavors.

Majors taking course: It will be an elective for all Biology grad students, and an option for grad students in other departments (Chem, Physics, Eng., etc)

STA 6XXX   COS-STAT  3(3,0)
Spatial Statistics: PR: STA 6707 and STA 5825. Statistical models and methods for analyzing data that are collected at different spatial locations and/or at different times, spatial or spatio-temporal data. Even Spring.
Abbrev: (18 of 30 chars) Spatial Statistics
Discussion with others: This class is focusing on statistical analysis of spatial data. There is no other department offering this course now and therefore no possible duplications or conflicts with other departments. Statistics received approvals from Criminal Justice, Sociology, Public Administration and Biology (see emails).
Rationale: In the last decade, there is a rapid growth in the use of Geographical Information Systems (GIS). Analysis of these data is an important component of this development. Spatial statistics has developed its own techniques for solving spatial data problems. Spatial data analysis is used when data is collected at a number of different sites. With the recent advances in big data analytics, students should also learn on how to analyze spatial data to be competitive in the current job market.

STA 7XXX   COS-STAT  3(3,0)
Bayesian Modeling and Computation: PR: STA 5703 and STA 6704. Bayesian model, prior specification, basics of decision theory, Markov chain Monte Carlo, Bayes factor, empirical Bayes, Bayesian linear regression and generalized linear models, hierarchical models.
Occasional.
Abbrev: (29 of 30 chars) Bayesian Modeling Computation
Discussion with others: Contacted Biomedical Sciences, Bioinformatics, Sociology, Electrical & Computer Engineering, Psychology, Anthropology, Education & Human Performance, Computer Science. See attached emails.
Rationale: Today Bayesian statistics is important for a PhD in Data Analytics because Bayesian analysis is widely used and provides a computational solution when the estimated parameters do not have a closed form. Bayesian analysis is also becoming more welcome in numerous of fields such as psychometric and bioinformatics. It requires mathematics especially probability training to understand the Bayesian theories and methods. Bayesian methods have some advantages compared to conventional analysis. First, practically many problems that are intractable using the conventional methods are tractable by Bayesian approaches. Second, Bayesian modeling is more flexible for parameter estimation so that it may be more useful for clustering problems due to lack of data's label information.
STA 7XXX COS-STAT 3(3,0)

**Current Topics in Big Data Analytics**: PR: STA 5703 and STA 6704. Discussion of new and current techniques developed to solve big data problems that are not covered in current big data analytic courses. *Occasional.*

**Abbrev**: (30 of 30 chars) Curr Topics Big Data Analytics

**Discussion with others**: Contacted Electrical & Computer Engineering, Industrial Engineering & Management, and Computer Science. See attached emails.

**Rationale**: Big data analytics is a repeat growing field and there are many techniques developed each year. These new techniques are important component of students in the field of big data analytics especially when advance statistical techniques are required, since these techniques are new and they are not covered by current courses and should be taught as a special topic course.

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STA 7XXX COS-STAT 3(3,0)

**Dimension Reduction in Regression**: PR: STA 6236 or STA 5206. Reducing the number of random variables/features in regression, feature selection and extraction, kernel principal component analysis, locally linear embedding. *Occasional.*

**Abbrev**: (27 of 30 chars) Dim Reduction in Regression

**Discussion with others**: Contacted Biomedical Sciences, Bioinformatics, Sociology, Electrical & Computer Engineering, Industrial Engineering & Management, Psychology, Anthropology, Education & Human Performance, and Computer Science. See attached email.

**Rationale**: With increasing big data and abundant of features to be extracted in regression, dimension reduction (DR) is crucial for successful employment and interpretation. We review classic DR techniques like LDA, PCA and will discuss the recent development of nonparametric variants like Sliced Inversion Regression (SIR), semi-parametric variants like kernel PCA and linear embedding.

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STA 7XXX COS-STAT 3(3,0)

**Statistical Asymptotic Theory in Big Data**: PR: STA 6327 and STA 6704. Asymptotic theory of statistics, with an array of applications to motivate as well as demonstrate its utility in addressing problems in Big Data research. *Even Fall.*

**Abbrev**: (30 of 30 chars) Sta Asymptotic Theory Big Data

**Discussion with others**: Contacted Electrical & Computer Engineering, and Computer Science. See attached emails.

**Rationale**: Big data analytics require techniques to examine convergence of algorithms. This course will introduce students to some of the important statistical ideas of large-sample theory without requiring any mathematics beyond calculus and linear algebra. In particular, no measure theory is required. Furthermore, the level of mathematical rigor will be high even if the level of the mathematics is not. In particular, understanding and writing proofs will be vital.

**Majors taking course**: Big Data Analytics PhD students

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STA 7XXX COS-STAT 3(3,0)

**Statistical Learning Theory**: PR: STA 6329, STA 6327, and STA 6106. Discuss when statistical learning algorithms work and why by focusing on developing a theoretical understanding of the statistical properties of learning algorithms. *Even Fall.*

**Abbrev**: (27 of 30 chars) Statistical Learning Theory
Discussion with others: Contacted Computer Science, Industrial Engineering & Management, and Electrical & Computer Engineering. See attached emails.

Rationale: There has been a significant expansion of big data and the common techniques used to analyze these data are computer algorithms without theoretical justifications. This course will provide statistical framework for studying the problem of inference, making predictions or decisions from a set of data. Statistical learning theory allows us to better understand the theory behind machine learning algorithms. So, it will make things more precise and derive new or improved algorithms.

Majors taking course: Big Data Analytics PhD

STA 7XXX COS-STAT 3(3,0)

Abbrev: (17 of 30 chars) Survival Analysis
Discussion with others: Contacted Biomedical Sciences, Bioinformatics. See attached email. Rationale: Survival analysis is a collection of statistical methods that are used to describe, explain, or predict the occurrence and timing of events. Survival analysis is a major analytical tool used in clinical studies to evaluate the effect of a new medical treatment or a newly developed drug, etc. These same methods are also appropriate for studying social phenomena including births, marriages, divorces, job terminations, promotions, arrests, migrations, and revolutions. Although some methods of survival analysis are purely descriptive (e.g., Kaplan-Meier estimation of survival functions), most applications involve estimation of regression models, which come in a wide variety of forms.

2. Special Topics Additions

College of Education and Human Performance Special Topics Additions

Approved 11/9/2016 with 2 opposed.
MHS 6938 ED-CFCS 3(3,0)
Advanced Diagnosis and Treatment Approaches: Applications of Neuroscience in Counseling Practice: PR: Graduate standing or C.I. Students will learn basic neuroscience concepts that propose how the human brain impacts and is impacted by counseling models and techniques. Occasional.

Abbrev: (28 of 30 chars) Advanced Diagnosis Treatment
Discussion with others: Dr. Gulnora Hundley (Counselor Education) contacted Dr. Jeffrey Cassisi (Psychology Department Chair) who supports Dr. Hundley’s efforts and has no objections to the development of the course. Furthermore, Dr. Bonnie Yegidis (School of Social Work Director and Professor) indicated that she saw no problem in the Counselor Education program offering a course on Neuroscience. Please see the attached emails as affirmations.
College of Engineering and Computer Science Special Topics Additions

TTE 6938 EUC-CECE 3(3,0)
Geographic Information Systems (GIS) Application for Transportation: PR: TTE 5204 or STA 5206 or ESI 5219. Exploring a variety of advanced Geographic Information Systems (GIS) techniques and spatial statistical modeling methods that can be applied in transportation engineering and safety analysis. Occasional.
Abbrev: (17 of 30 chars) GIS for Transport
Discussion with others: The suggested course was discussed with the Department Chair, Professor Dr. Mohamed Abdel-Aty and Dr. Dingbao Wang (who teaches several GIS related courses). We concluded that although there are many GIS classes offered none of the GIS classes are exclusively offered for transportation engineering. GIS tools for transportation are quite different from other fields. For example, network analysis tools such as finding the best route, closest facilities, creating OD cost matrix are not covered by the GIS classes from other departments. Also, advanced spatial modeling techniques will be covered for traffic crash analysis (e.g., Spatial lag models, Geographically Weighted Regression (GWR), etc.).

Dr. John Walker (Anthropology) suggested a new GIS certificate program to the College of Graduate Studies and it has been approved. He agreed to include the proposed courses, "GIS Application for Transportation", as an elective course for the new GIS certificate program.

Tabled 10/26/2016, with 1 opposed. Needs discussion with Biomedical Sciences.
Approved 11/21/2016, based on revised syllabus and email with Biomedical Sciences.

EEL 5937 ECS-ECE 3(3,0)
Advanced Bioelectronics Systems: PR: EEE 4309C or C.I. Advanced bioelectronics systems and techniques that enable recent biophysical and biomedical research will be discussed. Occasional.
Abbrev: (30 of 30 chars) Advanced Bioelectronics System

EEL 6938 ECS-ECE 3(3,0)
Network Economics and Architectures: PR: EEL 4781 or similar. Principles of internet working architectures; and their projections on function placement and decomposition as well as various network protocol elements such as routing, naming, and addressing. Implications of network economics on the evolution and practice of network architectures and systems. Multi-provider inter-ISP economics: Pricing, peering, edge-to-edge tussle, neutrality, fairness, and openness. Networking and population effects and their impact on the scale of the network design: power laws and scale-free composition. Occasional.
Abbrev: (30 of 30 chars) Network Economics Architecture
Discussion with others: We have discussed over emails with Dr. Jun Wang (ECE), Dr. Mainal Chatterjee (CS), Dr. Mostafa Bassiouni (CS). They identified possible overlaps and we have adjusted the syllabus accordingly. They all encouraged a course with an emphasis on network economics covered along with recent advances in network systems. Dr. Mark Dickie in Economics provided the following "Thank you for sending the proposal. This looks like a good course which does not overlap with any current offerings in Economics."
3. Course Revisions

**College of Arts and Humanities Course Revisions**

**THE 6948 Professional Internship**

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<th>Credits</th>
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<tr>
<td>3</td>
<td>Admission to the MFA Musical Theatre majors. Acting program. Field work as company members of the Seaside Musical Theatre professional theatre. Orlando Shakespeare Theatre. Term Offered: Occasional Odd Fall, Even Spring Repeat For Credit: No Yes Max Times: 1 2 Rationale: We no longer have a partnership with the Seaside Musical Theatre (which is no longer in operation) and are now partnered with the Orlando Shakespeare Theatre. Majors taking course: MFA Acting</td>
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TPP 5156C **Acting Studio I**

PR: Admission to the MFA Acting program. An advanced scene study course with emphasis on using Shakespeare’s canon to explore scene analysis and character development. Term Offered: Odd Fall Rationale: To modify the course to strengthen the actor training in the MFA Acting program. Majors taking course: MFA Acting

TPP 5157C **Acting Studio II**

PR: TPP 5156C. Advanced scene study course applying acting methodologies to the works of modern (1850-) European playwrights with emphasis on the works of Ibsen/Chekhov/Shaw. Term Offered: Even Spring Rationale: To modify the course to strengthen the MFA Acting program. Majors taking course: Acting MFA

TPP 5715C **Stage Voice I**

PR: Admission to the MFA Acting program. An introduction/review class examining Fundamentals of breathing and vocal production. Term Offered: Odd Fall Rationale: To modify the course description to introduce new methodologies in stage voice training to MFA Acting students. Majors taking course: MFA Acting

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<th>Credits</th>
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### TPP 5716C  
**Stage Voice II**

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<th>Credits</th>
<th>COMBINED HOURS</th>
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**PR:** Admission to the MFA Performance program and TPP 5715C or C.I. Acting program.  
Continuation of Graduate Stage Voice Production I, studying including Skinner's narrow transcription with consonants, review IPA and application of all Linklater work, and introduction physical vocal techniques to the work of Arthur Lessac. 

**Term Offered:** Even Spring  
**Rationale:** To modify the course description to introduce new methodologies in stage voice training to MFA Acting students.  
**Majors taking course:** MFA Acting

### TPP 6146  
**Acting Studio III**

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<th>Credits</th>
<th>COMBINED HOURS</th>
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<td>3(2,2)</td>
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**PR:** TPP 5157C. 5157C: Acting Studio II.  
An advanced acting course dealing with Shakespeare applying acting methodologies to the works of classical playwrights and other verse playwrights, with emphasis on verse, scene analysis and character development. 

**Term Offered:** Even Fall  
**Rationale:** To modify the course to strengthen the actor training in the MFA Acting program.  
**Majors taking course:** MFA Acting

### TPP 6186C  
**Advanced Scene Study**

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<tr>
<th>Credits</th>
<th>COMBINED HOURS</th>
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<td>3(3,1)</td>
<td>2(2,1)</td>
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**PR:** TPP 5156C. Admission to MFA Acting program.  
Acting process and craft techniques related to the commercial theatre, all forms of theatre including TYA, commercial, and new play development. 

**Term Offered:** Occasional Odd Fall  
**Rationale:** Due to being scheduled in conjunction with the professional theatre schedule, this course requires less lab time and less face-to-face time.  
**Majors taking course:** MFA Acting

### TPP 6267  
**Acting Studio V: TV/FILM**

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<th>Credits</th>
<th>COMBINED HOURS</th>
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<td>2(2,1)</td>
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**PR:** TPP 6518C and MFA Theatre Graduate. 6146.  
Technical An advanced acting class that focuses on the technical and practical aspects of acting for film and Television. 

**Abbrev (16 of 30):** Acting Studio V: TV/FILM, Acting Studio IV  
**Term Offered:** Odd Spring  
**Rationale:** This course requires less face-to-face time and more lab time.  
**Majors taking course:** MFA Acting

### TPP 6717C  
**Stage Voice III**

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<th>Credits</th>
<th>COMBINED HOURS</th>
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**PR:** Grad Voice Stud II. Admission to MFA Acting program.  
A continuation Continuation of the work started in Stage Voice I and II. Study II, focusing on Shakespeare's use Shakespeare's language and text in performance. 

**Term Offered:** Even Fall  
**Rationale:** To modify the course description to introduce new methodologies in stage voice.
training to MFA Acting students.
Majors taking course: MFA Acting

**College of Education and Human Performance Course Revisions**

No committee decision; retracted by College of Education and Human Performance

**EDF 7407 Research in Educational Leadership 2** 3(3,0)

PR: EDF 7471 and EDF 6481. Admission to the EdS or EdD in Educational Leadership.

Methods applied to statistical problems and resolution of selected problems appropriate for statistical applications is the focus of the course.

Discussion with others: There are no conflicts as the course was designed and approved as an educational leadership course in 2009/2010 academic year.

Rationale: The prerequisite is being changed from EDF 6481 to EDF 7471 and admission in the EdS and EdD program, as many master's degree programs no longer include EDF 6481 as a requirement, including the MED in Educational Leadership.

Majors taking course: MFA Acting

**EDF 7471 Research in Educational Leadership I** 3(3,0)

PR: EDF 6481, Admission to the EdS or EdD in Educational Leadership.

Study, analysis, and understanding of applied educational research methods are the focus of the course.

Discussion with others: There are no conflicts as the course was designed and approved as an educational leadership course in 2009-2010.

Rationale: The prerequisite is being changed from EDF 6481 to admission to the EdD or EdS program as many master's degree programs no longer include EDF 6481 as a requirement, including the MED in Educational Leadership.

Majors taking course: EdS and EdD in Educational Leadership

**College of Engineering and Computer Science Course Revisions**

**CWR 5545 Water Resources Engineering** 3(3,0)

PR: CWR 4633 or C.I.

Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques.

Rationale: Updating PR due to course changes

**CWR 6235 Open Channel Hydraulics** 3(3,0)

PR: CWR 4633 or C.I.

Free surface flow studies by empirical and theoretical methods for the design, operation, and management of open channels.

Rationale: updating PR
CAP 6135 Malware and Software Vulnerability Analysis 3(3,0)
PR: CNT 4704 Digital Forensics MS major or equivalent and CGS 5131, CDA 5106 or C.I. COT 5405.
Analyze computer malicious codes, such as virus, worm, trojan, spyware, and software vulnerabilities, such as buffer-overflow.
Term Offered: Odd FALL SPRING
Rationale: Updating PRs to allow other programs to take course

CIS 6395 Incident Response Technologies 3(3,0)
PR: CGS 5131 and CNT 6418, Digital Forensics MS major or C.I. CDA 5106 or COT 5405.
This course covers security incidents and intrusions. Topics include: identifying and categorizing incidents, responding to incidents, log analysis, network traffic analysis, and tools.
Rationale: Updating PRs to accommodate students in other programs
There are no programs that list CIS 6395.

CNT 6519 Wireless Security and Forensics 3(3,0)
PR: CGS 5131 Digital Forensics MS major or C.I. CDA 5106 or COT 5405.
Advanced topics in wireless network security, security management, cryptography, wireless forensics and related areas.
Term Offered: EVEN SPRING FALL
Rationale: Updating PRs to allow other programs to take

College of Graduate Studies Course Revisions

IDS 6257 Fundamentals of Nano Biophysics 3(3,0)
Principles and Techniques of Nanobiology
PR: Admission to the Nanotechnology PSM or MS program, or C.I.
This course aims to integrate multi-disciplinary approaches covering physics, biology, and nanoscience to understand how living system works at the nanoscale.
Abbrev (29 of 30): Nano-Biophysics Principles/Techniques Nanobio
Rationale: Changing the title to reflect concerns from the Physics department about potential conflicts with an existing course in this department.
Majors taking course: PSM and MS program in Nanotechnology

IDS 6258 Advanced Materials for Rechargeable Batteries 3(3,0)
Advanced Materials and Nanotechnology for Rechargeable Batteries
PR: Admission to the PSM in Nanotechnology and Intro Nanosci Nanotech, or C.I.
Build a bridge between nanomaterials and electrochemical energy storage performance and
demonstrate renewable energy storage on the nanoscale.
Rationale: Changing the title to reflect the course topic more accurately.

College of Health and Public Affairs Course Revisions

HAS 6178   Financial Management for Health Care Managers  4(4,0)
PR: Admission to Health Sciences M.S., Executive Health Services Administration track.
HSA6179.
Application and integration of advanced accounting and financial principles to develop solutions
to specific problems encountered in today's health care organizations.
Rationale: To ensure students progress through the program with the appropriate course
sequence

College of Optics and Photonics Course Revisions

OSE 6125   Computational Photonics 3(3,0)
PR: Graduate standing, OSE 6111 and OSE 6432, 6111 or C.I.
Computational methods for photonic guided wave structures, periodic structures, and
integrated photonic structures and devices.
Discussion with others: Requested approval from both Physics and Engineering.
Engineering (Kalpathy Sundaram) approved to go forward. Physics (Eduardo Mucciolo)
approved to go forward.
Rationale: This is an update to pre-requsites only. Majors taking course: None - elective only

OSE 6421   Integrated Photonics 3(3,0)
PR: Graduate standing, OSE 6111 or C.I.
Reviews working principle, system functionality and design and fabrication issues of
semiconductor integrated photonic devices and circuits for optical telecommunication
and interconnect applications.
Discussion with others: Request sent to Physics and EE for approval to go forward. EE -
Approval received from Kalpathy Sundaram. Physics - Approval received from Eduardo
Mucciolo. Rationale: This is a pre-requisite update only
Majors taking course: elective course in Optics

OSE 6445   Fundamentals of Ultrafast Optics 3(3,0) PR:
Graduate standing, and OSE 5041 or OSE 6111 or PHY 5346, and OSE 6525, or C.I.
Introductory concepts: Ultrafast Optical Signal Generation, Ultrafast Signal Detection,
Ultrafast Optical Signal Transmission, and Ultrafast Optical Signal Processing.
Discussion with others: Requested approval to go forward from EE and Physics. EE -
Approval received from Kalpathy Sundaram. Physics - Approval received from Eduardo
Mucciolo. Rationale: This is a pre-requisite update only.
OSE 6447  
**Attosecond Optics**  
3(3,0)

PR: Graduate standing, and OSE 6349 or PHY 5606, and OSE 5041 or OSE 6111 or PHY 5346, 5346 or OSE 6525, or C.I.

Introduction of the forefront of attosecond optics research. Topics include the fundamental theories and latest journal publications.

**Discussion with others:** Request sent to EE and Phy to approve to go forward with update. EE - Approved to go forward by Kalpathy Sundaram. Physics - Approved to go forward by Eduardo Mucciolo.

**Rationale:** Course OSE 5041 is no longer a required course, and should be removed as a pre-requisite for this class.

**Majors taking course:** none required.

OSE 6525  
**Laser Engineering**  
3(3,0)

PR: Graduate standing and OSE 5044 or C.I.

Principles of laser amplification and oscillations; design of lasers; general characteristics of excitation systems.

**Discussion with others:** Request send to EE and Physics to get approval to go forward. EE - Approval received from Kalpathy Sundaram. Physics - Approval received from Eduardo Mucciolo. 

**Rationale:** Course OSE 5041 is no longer a required course in our program. This is a pre-requisite update only

**Majors taking course:** Optics MS and Optics PhD

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**College of Sciences Course Revisions**

BSC 6935  
**Seminar in Biology**  
1(1,0)

PR: Admission to Biology M.S. or Ph.D. in Conservation Biology graduate certificate Biology, or Certificate in Conservation Biology, or C.I.

Discussions and presentations addressing current research in the field of Biology. Graded S/U. May be used in the degree program a maximum of 2 times.

**Rationale:** "Ph.D. in Conservation Biology" should be included in the prerequisites statement because it is also a requirement for all Biology PhD students.

PCB 6095  
**Professional Development in Biology I**  
1(1,0)

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Methods in experimental design, research, and the ethics of animal research. Graded S/U.

**Rationale:** "Ph.D. in Conservation Biology" should be included in the prerequisites statement because it is also a requirement for all Biology PhD students.

PCB 6096  
**Professional Development in Biology II**  
1(1,0)

PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Preparation and presentation of research grants, scientific presentations, and scientific papers. Graded S/U.

**Rationale:** "Ph.D. in Conservation Biology" should be included in the prerequisites statement because it is also a requirement for all Biology PhD students.
PSY 6348 Recruitment, Placement and Selection 3(3,0)
INP 6318
PR: PSY 6308C and admission to Industrial Organizational Psychology M.S., or C.I.
Issues related to recruiting, placing, and selecting employees and an examination of currently used tests in industry.
Rationale: The prefix was originally incorrectly assigned

4. Course Deletions

College of Arts and Humanities Course Deletions

CRW 5020 CAH-ENG 3(3,0)
Graduate Writing Workshop PR: Admission to Creative Writing MFA and C.I. Student writers present their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher. May be used in the degree program a maximum of 5 times.
Discussion with others: n/a
Rationale: We no longer offer this course since our students need 6xxx level courses to fulfill Graduate College requirements. We offer CRW 6025 Advanced Graduate Workshop each fall and spring semester.

ENG 6802 CAH-ENG 3(3,0)
Literature, Texts, and Technology PR: Graduate standing or C.I. The relationship of literature to various modes of theories and technology and the impact of these technologies on literary meaning on a variety of texts.
Discussion with others: n/a
Rationale: The course has not been taught in more than five years and does not form part of any of our programs of study. More specific courses have been developed in the Texts and Technology PhD program that make the course unnecessary for that program.

EUH 5285 CAH-HIST 3(3,0)
Colloquium in Europe Since World War II PR: Graduate status or senior standing or C.I.
Reading and class discussion of the literature on selected topics in European history since WW II.
Discussion with others: n/a
Rationale: Superseded by newer courses.

EUH 5415 CAH-HIST 3(3,0)
Rome and Early Christianity PR: Graduate standing or C.I. Current trends in historical literature in Christianity from its development as a distinct religion to its relations with and eventual "triumph" within the Roman Empire.
Discussion with others: n/a
Rationale: Superseded by newer courses.
LAH 5713 CAH-HIST 3(3,0)
Colloquium in U.S.-Latin American Relations PR: Graduate status or senior standing or C.I. The course will analyze U.S.-Latin American relations from an historical perspective. It will be presented through readings and discussion of selected materials.
Discussion with others: n/a
Rationale: Superseded by newer courses.

SPW 5795 CAH-LANG 3(3,0)
Jewish Culture in Latin America PR: Spanish M.A. program or graduate student proficient in Spanish. History of the arrival of Jews in Latin America and studies of Latin American Jewish authors and literature. Will be taught in Spanish, including all readings.
Discussion with others: n/a
Rationale: This course was intended to be used as a program elective. Faculty member who designed this course is no longer at UCF and the course content does not align with current faculty members’ areas of expertise.

TSL 6602 CAH-LANG 3(3,0)
Second Language Vocabulary Research Seminar PR: Admission to Teaching English to Speakers of Other Languages M.A. or Teaching English to Speakers of Other Languages Ph.D. programs. Trains students in conducting original primary research of current lexical issues, based on extant secondary research studies pertaining to English language learners.
Discussion with others: n/a
Rationale: This course has not been offered in recent memory. TSL 6600 is very similar and has been offered once a year. We believe TSL 6600 is sufficient for our students’ needs.

ART 5670C CAH-SVAD 3(2,4)
Digital Illustration CR: ART 6683C. Methods and media effects usually associated with traditional illustration in a digital platform.
Discussion with others: n/a
Rationale: ART 5670C Digital Illustration does not fit in the current curriculum and has not been taught in five years. At this time, there is no intent to offer it.

DIG 6550 CAH-SVAD 3(3,0)
Digital Media Pre-Production PR: Film and digital media majors, DIG 6546, or C.I. Methodologies for digital media design, scoping, prototyping, presentation, and integration, culminating in developed plan for new media projects.
Discussion with others: n/a
Rationale: Course has not been offered for a significant time and is no longer needed.

**College of Business Administration Course Deletions**

ECO 6453 BA-ECON 3(3,0)
Experimental Economics PR: ECO 6118 (or equivalent) and ECO 6403 (or equivalent). Introduction to the use of experimental methods in economics: motivation, design, analysis, and policy implications of this methodology.
Discussion with others: Not Applicable
Rationale: This course is not part of any degree program

**ECO 6505**  
**Public Economics**  
PR: ECO 6118 or equivalent, and ECO 6403 or equivalent. Analysis of how government activities influence resource allocation, relative prices, and welfare, including public goods theory, tax incidence, and optimal taxation theory.  
Discussion with others: Not Applicable  
Rationale: This course is not part of any degree program

**ECO 7117**  
**Advanced Topics in Economic Theory**  
PR: ECO 7116 and ECO 7205. Advanced topics in economic theory, including comparative statics, atemporal duality theory, comparative dynamics and intertemporal duality theory, differential game theory, and the economics of information.  
Discussion with others: Not Applicable  
Rationale: This course is not part of any degree program

**ECO 7205**  
**Macroeconomic Theory II**  
PR: ECO 6206 (or equivalent), ECO 6403 (or equivalent), and ECO 6118 (or equivalent). The study of classical, neoclassical, and endogenous growth theories and their application to contemporary economic problems.  
Discussion with others: Not Applicable  
Rationale: This course is not part of any degree program

**ECP 7306**  
**Environmental Economics**  
PR: ECP 6309. The application of economic theory and methods to the evaluation of the effects of economic activity on the environment with selected applications.  
Discussion with others: Not Applicable  
Rationale: This course is not part of any degree program

**ECP 7307**  
**Research Seminar**  
PR: ECO 7426, ECP 7311, ECP 7306, or C.I. Students conduct and evaluate research in their chosen field of specialization. Student projects are prepared with faculty consultation and are presented as part of the seminar.  
Discussion with others: Not Applicable  
Rationale: This course is not part of any degree program

**ECP 7311**  
**Natural Resource Economics**  
PR: ECP 6309. Advanced treatment of dynamic principles in optimal renewable and nonrenewable resource consumption and the role of natural resources in economic development and international trade.  
Discussion with others: Not Applicable  
Rationale: This course is not part of any degree program

**GEB 6515**  
**Innovation Management**  
PR: Admission to approved College of Business Administration graduate program, C.I. Course focuses on the management of technological innovation. Topics include new product development, types of technological change, technology new ventures, and
corporate renewal.

Discussion with others: NA

Rationale: Course not offered in 5 years. Course is really a 1.5 hour credit class, but UC2 system would not let me submit without changing the credits.

**MAN 5037**  
**BA-MAN**  
**1.5(1.5,0)**  
**Management Foundations** PR: Graduate standing or C.I. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control.

Discussion with others: NA

Rationale: Course has not been taught in 5 years. Course is a 1.5 credit hour course, but UC2 system would not allow me to submit without changing format of hours to 1.

**MAN 5050**  
**BA-MAN**  
**2(2,0)**  
**Management Concepts** PR: Acceptance in MBA program. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control.

Discussion with others: NA

Rationale: Course has not been taught in 5 years.

**MAN 6068**  
**BA-MAN**  
**1.5(1.5,0)**  
**Business Ethics and Social Responsibility** PR: Admission to approved an Business Administration graduate program, C.I. A broad understanding of decision making within the context of ethical, social responsibility, and diversity issues in business.

Discussion with others: NA

Rationale: Course has not been taught in 5 years. Course is a 1.5 credit hour course, but UC2 system would not let me submit without changing the credit hour format to 1.

**MAN 6116**  
**BA-MAN**  
**3(3,0)**  
**Managing A Diverse Workforce** PR: MAN 6285. Course designed to provide students with an understanding of managing a diverse workforce.

Discussion with others: NA

Rationale: Course has not been taught in 5 years.

**MAN 6158**  
**BA-MAN**  
**3(3,0)**  
**Human Resources Management Issues** PR: MAN 6305 or C.I. A course providing advanced study in selected topics of current interest in human resource management.

Discussion with others: NA

Rationale: Course has not been taught in 5 years.

**MAN 6299**  
**BA-MAN**  
**3(3,0)**  
**Creative and Innovative Management** PR: Graduate standing or C.I. This course examines the emerging theories and practices related to creative and innovative management. It combines the creativity of new concepts, new ideas, new directions, and the like with their innovative implementation in a management context.

Discussion with others: NA

Rationale: Course has not been taught in 5 years.
MAN 6323  BA-MAN  3(3,0)
Human Resources Information Systems  PR: MAN 6305 or C.I. Planning, designing, selecting, implementing, and maintaining human resource information systems.
Discussion with others: NA
Rationale: Course has not been taught in 5 years.

MAN 6449  BA-MAN  3(3,0)
Alternative Dispute Resolution  PR: Graduate standing or C.I. Theory and practice of conciliation, mediation, fact finding, and arbitration as alternatives to business litigation.
Discussion with others: NA
Rationale: Course has not been offered in over 5 years

MAN 6508  BA-MAN  3(3,0)
Service Organizations and Operations Management  PR: Acceptance in a graduate business program of study. In-depth study of the unique characteristics, challenges, and quantitative techniques associated with managing organizations in the service sector.
Discussion with others: NA
Rationale: Course has not been taught in 5 years.

MAN 6515  BA-MAN  3(3,0)
Research and Development Management  PR: Graduate standing and MAN 5050. An examination of the function of research and development and the impact of technological innovation on our economic and social systems.
Discussion with others: NA
Rationale: Course has not been taught in 5 years.

MAN 6581  BA-MAN  3(3,0)
Project Management  PR: Acceptance into a graduate business program of study. Examination of project management, the role it plays in the strategic focus of the organization, and its importance in satisfying the needs of customers.
Discussion with others: NA
Rationale: Course has not been taught in 5 years.

MAN 6774  BA-MAN  1.5(1.5,0)
Executive Leadership  PR: Admission to approved an Business Administration graduate program, C.I. Review of organizational leadership theory and practice. Special attention given to contemporary issues such as transactional and transformational leadership, diversity, and social responsibility.
Discussion with others: NA
Rationale: Course has not been taught in 5 years. Course is a 1.5 credit hour course, but UC2 system would not let me submit without changing the credit hour format to 1.

MAN 7075  BA-MAN  3(3,0)
Foundations of the Management Discipline  PR: PhD standing. Presents seminal contributions that have profoundly affected the evolution of the management discipline, and examines social dynamics that influence the development of ideas.
Discussion with others: NA
**Rationale:** Course has not been taught in 5 years.

**MAN 7306**  
**BA-MAN**  
3(3,0)  
**Seminar in Human Resources Management**  
PR: Graduate standing or C.I. Course provides a graduate level overview of theory and research in human resources management. Topics covered include human resources strategy, legal issues, staffing, training, performance appraisal and compensation.  
Discussion with others: NA  
**Rationale:** Course has not been taught in 5 years.

**MAN 7777**  
**BA-MAN**  
3(3,0)  
**Corporate-level Strategic Management**  
PR: Admission to doctoral program and C.I. In-depth review of the classic and modern corporate-level strategy research literature, which deals with topics such as diversification, cooperative alliances and acquisitions strategies.  
Discussion with others: NA  
**Rationale:** Course has not been taught in 5 years.

**ISM 6023**  
**BA-MIS**  
3(3,0)  
**Information Systems Usability**  
PR: CBA master's program of study foundation core, MS MIS foundation core, or C.I. Students learn and apply the theories and methods of information systems usability, with an emphasis on user-centered design.  
Discussion with others: NA  
**Rationale:** MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

**ISM 6121**  
**BA-MIS**  
3(3,0)  
**Advanced Information Systems Analysis and Design**  
PR: MS MIS technical foundation core and CBA master's program of study foundation core. This course covers advanced topics of information systems development, including analysis of system requirements, design, implementation and operation.  
Discussion with others: NA  
**Rationale:** MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

**ISM 6158**  
**BA-MIS**  
3(3,0)  
**ERP Implementation**  
PR: ISM 6121, ISM 6217. The course is an overview of Enterprise Resource Planning (ERP). It focuses on the impact of ERP systems on organizations. Discussion with others: NA  
**Rationale:** MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

**ISM 6217**  
**BA-MIS**  
3(3,0)  
**Advanced Database Administration**  
PR: MS/MIS Technical Foundation Core and CBA master's program of study foundation core. This course covers various database technologies.
in business organizations, including database systems, multidatabase systems, data warehousing, data mining, and object-oriented databases.

**Discussion with others:** NA

**Rationale:** MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ISM 6227</td>
<td>BA-MIS</td>
<td><strong>Management of Telecommunications</strong> PR: MS/MIS Technical Foundation Core and CBA master's program of study foundation core. This course will focus on the strategic management of networks (voice, video, image, and data). Coverage includes network management systems, LANs and the internet.</td>
</tr>
<tr>
<td>ISM 6305</td>
<td>BA-MIS</td>
<td><strong>Information Resources Management</strong> PR: CBA master's program of study foundation core. This course provides an investigate of issues relevant to effectively managing IT activities and the challenges facing IT managers and some potential solutions to deal with them.</td>
</tr>
<tr>
<td>ISM 6367</td>
<td>BA-MIS</td>
<td><strong>Strategic Information Systems</strong> PR: MBA Professional Core I. Management and strategic use of enterprise digital platforms (i.e., enterprise resource planning, customer relationship management, supply chain management) to support internal and external business partnerships.</td>
</tr>
<tr>
<td>ISM 6368</td>
<td>BA-MIS</td>
<td><strong>Business Knowledge Management Systems</strong> PR: Admission to MS MIS program. Principles of Organization Knowledge Management (KM), focusing on information systems that assist in the creation and management of knowledge.</td>
</tr>
<tr>
<td>ISM 6395</td>
<td>BA-MIS</td>
<td><strong>Seminar - Management Information System</strong> PR: ISM 6305, ISM 6121, and graduate standing. This seminar covers theoretical foundations and current research directions in management information systems. Topics include organizational and managerial processing; systems design, development and implementation.</td>
</tr>
</tbody>
</table>

**Discussion with others:** NA

**Rationale:** MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.
<table>
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</thead>
<tbody>
<tr>
<td>ISM 6407</td>
<td>Decision Support Systems</td>
<td>PR: CBA master's program of study foundation core</td>
<td>This course addresses several aspects of organizational decision-making, including: decision support, operation system management, and data mining. Discussion with others: NA Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.</td>
</tr>
<tr>
<td>ISM 6422</td>
<td>Intelligent Systems for Business Applications</td>
<td>PR: CBA master's program of study foundation core and ISM 6407</td>
<td>An introduction to expert systems and data mining in the context of business applications. Discussion with others: NA Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.</td>
</tr>
<tr>
<td>ISM 6485</td>
<td>Electronic Commerce</td>
<td>PR: MS MIS Technical Foundation Core and CBA master's program of study foundation core</td>
<td>This course will provide an understanding of electronic commerce, including an overview of the infrastructure and technologies, comparative analysis of markets, e-commerce applications, and website development. Discussion with others: NA Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.</td>
</tr>
<tr>
<td>ISM 6537</td>
<td>Quantitative Models for Business Decisions</td>
<td>PR: CBA master's program of study foundation core</td>
<td>Quantitative techniques useful for the solution of business problems. Mathematical model building to aid the decision-making process is stressed. Discussion with others: NA Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.</td>
</tr>
<tr>
<td>ISM 6539</td>
<td>Service Organizations and Operations Management</td>
<td>PR: CBA master's program of study foundation core</td>
<td>In-depth study of the unique characteristics, challenges, and quantitative techniques associated with managing organizations in the service sector. Discussion with others: NA Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.</td>
</tr>
<tr>
<td>ISM 6930</td>
<td>Seminar in Management Information Systems</td>
<td>PR: MS/MIS technical foundation core and CBA master's program of study foundation core</td>
<td>This course will focus on current MIS topics of technological and management relevance.</td>
</tr>
</tbody>
</table>

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ISM 7027 BA-MIS 3(3,0)
Systems Support of Organizational Decision Making PR: Doctoral standing and C.I.
This course focuses on support systems for organizational decision making, including knowledge management systems.

Discussion with others: NA
Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

ISM 7029 BA-MIS 3(3,0)
Organizational Impacts of Information Technology PR: Doctoral standing and C.I.
Examination of impact of IT, IT-based innovation, and IT management in organizations.

Discussion with others: NA
Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

ISM 7317 BA-MIS 3(3,0)
Information System Project Implementation and Management PR: C.I.
Research issues in information systems project implementation and management.

Discussion with others: NA
Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

ISM 7909 BA-MIS 3(3,0)
Comprehensive Research Project PR: Doctoral standing and C.I.
This course allows students to conduct a research project of limited scope from idea to execution to manuscript preparation.

Discussion with others: NA
Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

ISM 7916 BA-MIS 3(3,0)
Seminar on Behavioral Information Systems Research PR: Doctoral standing and C.I.
This research seminar focuses on research in the use of information technology by individuals, groups, and organizations.

Discussion with others: NA
Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

ISM 7926 BA-MIS 1(1,0)
Management Information Systems Research Forum PR: Doctoral standing and C.I.
Research and pedagogical issues in information systems, including research presentations by faculty, doctoral students, and invited scholars.

Discussion with others: NA
Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

ISM 7936 BA-MIS 3(3,0)
Seminar on Technical Information Systems Research PR: Doctoral standing and C.I. This research seminar focuses on current research in the technical fields of Information Systems. It covers both research areas and research methods.
Discussion with others: NA
Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

ISM 7938 BA-MIS 3(3,0)
Theoretical Foundations for Information Systems Research PR: Doctoral standing and C.I. This course is a PhD seminar on using theory in information systems research.
Discussion with others: NA
Rationale: MIS major no longer exists. Course has not been taught in over 5 years and will not be taught again in the future.

College of Education and Human Performance Course Deletions

ELD 6146 ED-CFCS 3(3,0)
Instructional Strategies for Students with Learning Disabilities Instructional strategies for students with specific learning disabilities to include development, implementation, and evaluation of individualized educational plans and adaptation of curriculum and materials.
Rationale: This course is no longer offered as a requirement in a CEDHP degree program.

ELD 6944 ED-CFCS 1(0,1)
Diagnostic Learning-Disabilities Laboratory CR: ELD 6112 (Foundations and Diagnosis of LD). A laboratory designed for individual competence measurement of testing evaluation skills.
Rationale: This course is no longer offered as a requirement in a CEDHP degree program.

EMR 6365 ED-CFCS 3(3,0)
Teaching Students with Mental Disabilities Strategies for teaching students with mental disabilities: development, implementation, and evaluation of individualized plans; special approaches to teaching functional skills; developmental programming; data-based management.
Rationale: This course is no longer offered as a requirement in a CEDHP degree program.

EME 6459 ED-E&HS 1(1,0)
Course Design for Hybrid and Online PR: Angel Instructor Training (AIT) and C.I. Participants will master techniques and best practices for hybrid course development and delivery using tools and methods to foster optimal learner engagement and achievement.
Rationale: This course is no longer needed in the CEDHP.

EME 6605 ED-E&HS 3(3,0)
Role of the Media Specialist in Curriculum and Instruction PR: Acceptance into Ed Media Program or C.I. Development of skills in instruction and instructional design. Emphasis on
teaching, consultation, and media skills and curricular involvement of the media specialist.  
**Rationale:** This course is no longer needed in the CEDHP.

**EME 6706**  
**ED-E&HS**  
**3(3,0)**  
**Administrative Principles in Media Centers**  
PR: Acceptance in Ed Media program or C.I.  
Principles of planning, evaluating, budgeting, staffing, and marketing the school media program.  
Development of policies and procedures for the school media center, legislation technology, professionalism.  
**Rationale:** This course is no longer needed in the CEDHP.

**HSC 5317**  
**ED-E&HS**  
**3(3,0)**  
**Health Methods: Teaching Strategies and Interventions**  
PR: Admission to Graduate Certificate in Health and Wellness or C.I.  
Application of the knowledge of teaching strategies, methodology, and curriculum to develop a comprehensive school health program.  
**Rationale:** This course is no longer needed in the CEDHP.

**College of Engineering and Computer Science Course Deletions**

**College of Nursing Course Deletions**

**NGR 6242**  
**CON-NURS**  
**2(2,0)**  
**Adult II for APNs**  
PR: Admission to MSN program or a nursing certificate track; NGR 6240.  
CR: NGR 6242L (for ANP track). Development of theoretical foundation for the evaluation, diagnosis, and management of the complex health needs of adults.  
**Discussion with others:** Not applicable  
**Rationale:** Course not longer taught

**NGR 6242L**  
**CON-NURS**  
**2(0,2)**  
**Adult II Clinical for APNs**  
PR: Admission to M.S. in Nursing program, Nursing certificate, Adult Nurse Practitioner track, NGR 6240; NGR 6240L (Family Nurse Practitioner, Adult Nurse Practitioner tracks). CR: NGR 6242. Application of theory and skills for the evaluation, diagnosis, and management of the complex health needs of adults. Graded S/U. May be repeated for credit.  
**Discussion with others:** Not applicable  
**Rationale:** Course no longer taught

**NGR 6335**  
**CON-NURS**  
**2(2,0)**  
**Focused Pediatrics for APNs**  
PR: Admission to M.S. in Nursing program, Nursing certificate or track, NGR 6331, NGR 6331L (for Pediatric Nurse Practitioner students). CR: 6335L (for PNP students). Development of advanced knowledge in the physical and developmental assessment of children and families across the lifespan.  
**Discussion with others:** Not applicable  
**Rationale:** Course no longer taught

**NGR 6336**  
**CON-NURS**  
**3(3,0)**  
**Medically Complex Infants and Toddlers**  
PR: Admission to the Infant and Toddler Development Specialist Certificate program or the M.S. in Nursing Program. Biomedical risk
factors affecting infant/toddler development and the impact on their families. May be used in
the degree program a maximum of 2 times.
Discussion with others: Not applicable
Rationale: Course no longer taught

NGR 6780  CON-NURS  3(3,0) Clinical
Nurse Specialist I  PR: NGR 5141; NR 6172, NGR 5720, NGR 5003. Foundation for Clinical
Nurse Specialist practice; common clinical problems across the lifespan; role delineation. May be
used in the degree program a maximum of 2 times.
Discussion with others: Not applicable
Rationale: Course no longer taught

NGR 6780L  CON-NURS  3(0,3)
Clinical Nurse Specialist I Practicum  PR: Coreq. NGR 6780, Prereq. NGR 6722.
Implementation of the clinical expert, educator, and leadership roles of the Clinical Nurse
Specialist. Graded S/U. May be used in the degree program a maximum of 2 times.
Discussion with others: Not applicable
Rationale: Course no longer taught

NGR 6781  CON-NURS  2(2,0) Clinical
Nurse Specialist II  PR: NGR 6780, NGR 6780L. Continuation of Clinical Nurse Specialist;
management of acute and/or complex patients across the lifespan; consultant, case manager,
change agent and research roles. May be used in the degree program a maximum of 2 times.
Discussion with others: Not applicable
Rationale: Course not longer taught

NGR 6781L  CON-NURS  3(0,3)
Continuation of CNS 1. Management of acute and/or complex patients across the lifespan.
Consultant, case manager, change agent and research roles. Graded S/U. May be used in the
degree program a maximum of 2 times.
Discussion with others: Not applicable
Rationale: Course no longer taught

NGR 6782  CON-NURS  3(3,0)
Adult CNS I  PR: Admission to the Doctor of Nursing Practice program, Adult/Gerontology
Clinical Nurse Specialist track; completion of NGR 5003, NGR 5003L, NGR 5141, NGR 5720, or
C.I. Clinical Nurse Specialist foundation. Common problems relevant to adult acute care. Clinical
Nurse Specialist competencies of direct care, coaching, and ethical decision making. May be
used in the degree program a maximum of 2 times.
Discussion with others: Not applicable
Rationale: Course not longer taught

NGR 6782L  CON-NURS  2(0,2)
Adult CNS I Clinical  CR: NGR 6782. Development of multi-faceted Clinical Nurse Specialist
role. Emphasis on clinical expert, coaching, and ethical decision-making competencies of
the Clinical Nurse Specialist. Graded S/U. May be used in the degree program a maximum of 2 times.

Discussion with others: Not applicable
Rationale: Course no longer taught

NGR 6819 CON-NURS 3(3,0)
Client Health Empowerment PR: Enrollment in a graduate health program or C.I. Analysis of the research and application of interventions that promote empowerment in health care delivery for diverse populations. May be used in the degree program a maximum of 2 times.
Discussion with others: Course no longer taught
Rationale: Course no longer taught

NGR 7176 CON-NURS 3(3,0)
Advanced Pharmacology for Advanced Practice Nursing PR: Admission to DNP and National Certification for APN Specialty or C.I. Comprehensive understanding and application of pharmacotherapeutics for acute and complex patients throughout the life span. May be used in the degree program a maximum of 2 times.
Discussion with others: Not applicable
Rationale: Course no longer taught

**College of Optics and Photonics Course Deletions**

OSE 6118 OPT-OPT 3(3,0)
Optical Propagation in Inhomogeneous Media PR: Graduate standing or C.I. Basic concepts of optical wave scattering and propagation in inhomogeneous media with applications to material sciences, optical remote sensing, biomedical optics, imaging, and image analysis.
Discussion with others: Request Sent to EE and Phy to go forward with deletion: EE: Approved by Kalpathy Sundaram. PHY: Approved by Eduardo Mucciolo.
Rationale: This course has only been taught one time in 10 years, and that one instance was more than 5 years ago. There is no intention to offer this course again.

**College of Sciences Course Deletions**

STA 5045 COS-COMM 3(3,0)
Statistical Analysis of Communication Data PR: STA 2023 or C.I. Descriptive statistics; correlation; bivariate, multiple and logistic regression; reliability and validity; effect size, power, confidence intervals; one and two sample tests; ANOVA; categorical data analysis.
Discussion with others: NSC deleted course from their curriculum.
Rationale: Course deleted from Communication curriculum; no longer needed. Emails available upon request.

PHY 5455 COS-PHYS 3(3,0)
Modern X-ray Science PR: Graduate status or senior standing or C.I. An introduction to the science and applications of modern X-ray optics, X-ray lasers, etc., with a review of basic properties of X-rays.
Discussion with others: n/a
Rationale: This course was offered by an affiliated faculty who is not interested in offering it again. The course is not seen as a current curriculum priority.

PHY 5650 COS-PHYS 3(3,0)
Introduction to Quantum Computation PR: C.I. Theoretical fundamentals and physical implementations of quantum computation for science and engineering students.
Discussion with others: n/a
Rationale: This course was offered once, but it overlaps with a similar course offered by Computer Science.

PHY 5705 COS-PHYS 1(1,0)
Physics of Graphene and Carbon Nanotubes PR: PHZ 4404 or equivalent, or C.I.
Advanced topics in carbon nanotubes and graphene sheets by presentation and discussion of current literature.
Discussion with others: n/a
Rationale: This course has never been offered. There is no faculty willing to teach it and does not constitute a current curriculum priority.

PHY 5846C COS-PHYS 3(3,3)
Methods of Experimental Physics PR: Graduate status or senior standing or C.I.
Introduction to methods of experimental physics, including instrumental design, data acquisition, vacuum, cryogenics, sample preparation, nuclear physics, transport, and spectroscopy.
Discussion with others: n/a
Rationale: This was originally a mandatory course for graduate students in the department. As an elective, it is found redundant and not necessary anymore.

PHY 6939 COS-PHYS 1(1,0)
Physics Research Seminar PR: Graduate standing or C.I. Modern experimental and theoretical research methods and current topics will be presented by local and invited researchers in physics. Graded S/U. May be used in the degree program a maximum of 3 times.
Discussion with others: n/a
Rationale: Given the current course load on graduate students in the Physics department, this course is not needed anymore.

PHY 7423 COS-PHYS 3(3,0)
Physics of Nanostructures PR: PHY 6624 or C.I. Electronic properties of mesoscopic nanostructures, conductance as transmission, s-matrix and Green's functions, localization, universal conductance fluctuations, single electron tunneling, chaos, nonequilibrium transport.
Discussion with others: n/a
Rationale: Created by a former physics faculty, it overlaps with another course active in the department.

PHZ 5045 COS-PHYS 3(3,0)
Attosecond Laser Physics PR: PHY 5606, PHY 5346 or PHY 4324, or C.I. Technique for
generating attosecond optical pulses using both semi-classical models and quantum mechanics theories. Illustrative examples of attosecond applications.

**Discussion with others: n/a**

**Rationale:** This course was created more than five years ago and never offered. Not seen as a curriculum priority by the department at this time.

**PHZ 5445 COG-PHYS 3(3,0)**

**Nanofabrication using Focused Ion Beam** PR: Graduate standing or C.I. Basic theory of ion-solid interaction; fundamental principle of focused ion beam instrument and its applications in nanofabrication; other ion beam techniques.

**Discussion with others: n/a**

**Rationale:** This course won't be offered anymore. It was too specialized and had low demand.

**PHZ 6446 COG-PHYS 3(3,0)**

**Selected topics in Physics of Semiconductors and Devices** PR: PHZ 6426 or C.I. Theory of semiconductor physics and devices.

**Discussion with others: n/a**

**Rationale:** This course won't be offered anymore. It was too specialized and had low demand.

**INR 6086 COG-POLS 3(3,0)**

**International Public Policy** PR: Graduate standing. Examines endogenous and exogenous variables involved in selected issues in the arena of international public policy.

**Discussion with others: n/a**

**Rationale:** Course not offered in 5-years.

**INR 6096 COG-POLS 3(3,0)**

**International Drug Policy** PR: Admission to degree-seeking program or C.I. Overview of drug use/abuse around the globe, debating the issues associated with international drug dealing and trafficking and analyzing the U.S. "War on Drugs".

**Discussion with others: n/a**

**Rationale:** Course not offered in 5-years.

**SYP 5615 COG-SOC 3(3,0)**

**Sociology of Culture** PR: Graduate standing or C.I. Major theoretical approaches and empirical studies in the sociology of culture and analysis of cultural processes.

**Discussion with others: None.**

**Rationale:** Course was created by a faculty member no longer with UCF. Currently there are no faculty available to offer course on an occasional basis.

5. Course Continuations

**College of Arts and Humanities Course Continuations**

**ASH 5229 CAH-HIST 3(3,0)**

**History of the Middle East** PR: Graduate standing or C.I. Selected topics in the history of the modern Middle East. May be used in the degree program a maximum of 2 times only when
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>PR and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUE 5348C</td>
<td>K-12 Music Methods</td>
<td>4(4,0)</td>
<td>Graduate standing in Music Education or C.I. Organization and administration of instruction for comprehensive music education, K-12. Instructional planning, techniques, and materials for general, choral, and instrumental music education. Rationale: We haven't been able to teach the course due to scheduling conflicts. This course will be taught in Spring 2017.</td>
</tr>
<tr>
<td>MVK 5650</td>
<td>Piano Pedagogy</td>
<td>2(2,0)</td>
<td>Graduate standing in Music or C.I. Techniques, methods, and experiences of former and current pedagogues to equip students for current or future piano teaching. Rationale: Recent faculty changes have resulted in altered plans for course offerings. For this time, the school would like to keep this course as an option for future course offerings.</td>
</tr>
<tr>
<td>FIL 5414</td>
<td>Film Vision, Scope &amp; Financing</td>
<td>3(3,0)</td>
<td>Acceptance to the MFA Film &amp; Digital Media program. Exploration of the creative and business challenges filmmakers encounter when working on a screenplay, including financing, making, and distributing a digital, microbudget motion picture. Rationale: We request to continue this course so that it may be incorporated into our revised Film MFA in Emerging Media.</td>
</tr>
<tr>
<td>THE 6308</td>
<td>Script and Score Analysis</td>
<td>3(3,0)</td>
<td>Admission to MFA Musical Theatre program. Representative works from the musical theatre repertoire analyzed as dramatic and musical literature. Rationale: Script Analysis is part of the MFA in Musical Theatre curriculum. Since the track has been on hold, this course has not been offered recently. The school would like to keep this course until further plans are made regarding this track.</td>
</tr>
<tr>
<td>TPA 6097C</td>
<td>Advanced Rendering and Modeling II</td>
<td>3(2,2)</td>
<td>TPA 6096C. A continuation of Advanced Rendering and Modeling I with an emphasis on creating a professional portfolio of advanced work. May be used in the degree program a maximum of 3 times. Rationale: Advanced Rendering and Modeling II is part of the MFA in Theatre Design curriculum. Since the track has been on hold, this course has not been offered recently. The school would like to keep this course until further plans are made regarding this track.</td>
</tr>
<tr>
<td>TPA 6106C</td>
<td>Sound Design Studio</td>
<td>3(2,2)</td>
<td>MFA Design candidate, Advanced Problems in Design I. Advanced work in the process of designing sound for the stage with an emphasis on the use of sound as artistic expression. Rationale: Recent faculty changes have resulted in altered plans for course offerings. For this time, the school would like to keep this course as an option for future course offerings.</td>
</tr>
</tbody>
</table>
**College of Business Administration Course Continuations**

**GEB 5941**  
*Professional Business Practicum*  
PR: Acceptance in the graduate program. The practicum is to provide a professional business work experience for students entering the MBA program without such experience.  
**Rationale:** The course will be used as part a mentorship/internship agenda in the MBA programs.

**ECO 6315**  
*Seminar in Contemporary Economic Issues*  
PR: ECO 6118 or equivalent and ECO 6403 or equivalent. Discussion and analysis of current economic problems and issues. May be used in the degree program a maximum of 3 times only when course content is different.  
**Rationale:** Retain course for us by Economics MS students as program is being reactivated

**ECP 6309**  
*Survey of Environmental and Natural Resource Economics*  
PR: ECO 6118 or equivalent and ECO 6403 or equivalent. A survey of the basic theoretical principles and the accompanying empirical work in environmental and natural resource economics.  
**Rationale:** Retain course Economics MS students as the program is being reactivated.

**FIN 6536**  
*Seminar in Investments*  
PR: Graduate standing, FIN 6406, and FIN 6515. Analysis of options, futures, and other derivative securities and their use in hedging strategies. Other topics include institutional equity and bond portfolio management techniques.  
**Rationale:** It is true that there has been a lack of demand from students for an advanced course in Investments. However, it is important that we retain the existing course because it covers really important aspects and topics related to both investments and risk-management. If there is a cohort group that is enrolled in our graduate programs that has the capacity and interest to tackle more rigorous and advanced topics in investments, they will greatly benefit from the material covered in this course.

**College of Education and Human Performance Course Continuations**

**PET 6135**  
*Historical Aspects of Sport and Physical Education*  
PR: Graduate standing. This course examines the development of sport and physical education from historic to modern times. The focus will be on US sport development following 1865.  
**Rationale:** The department has requested to keep this course active.

**PET 6217**  
*Peak Performance in Sports*  
PR: Admission to graduate certificate in Coaching or C.I. An in-depth study of mental and physical performance, including mental rehearsal, motivation, effort, and persistence.  
**Rationale:** The department wants to continue this course as active.
SPM 5308          ED-E&HS          3(3,0)
Marketing and Promoting Sports and Fitness Programs PR: C.I. Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events.
Rationale: The department wants to keep this course active.

**College of Medicine Course Continuations**

MCB 5932          COM-BSBS          VAR(VAR,VAR)
Current Topics in Molecular Biology PR: Graduate standing or C.I. Selected current research topics from the primary literature reflecting recent advances in molecular biology. May be repeated for credit.
Rationale: We are in process of hiring additional faculty who will be involved in 3 new tracks which will involve these courses in the near future.

PCB 6595          COM-BSBS          3(3,0)
Regulation of Gene Expression PR: Advanced course in molecular biology of BSC 6407C. Concepts of molecular biology focusing on major areas in transcriptional and translational processes.
Rationale: We are in process of hiring additional faculty who will be involved in 3 new tracks which will involve these courses in the near future.

**College of Sciences Course Continuations**

BSC 5332          COS-BIOL          3(3,0)
Invasion Biology PR: PCB 3044 or C.I. The three stages of biological invasion (introduction, establishment and spread) as well as impacts on native species and ecosystems.
Rationale: Expected to be taught by new Plant Biologist hire in Fall 2017.

ZOO 6520          COS-BIOL          3(3,0)
Behavioral Ecology PR: Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I. Introduction to the field of Behavioral Ecology, which studies evolution of animal behavior in the wild.
Rationale: The Biology Department hired a behavioral ecologist who will begin teaching the course as soon as possible.

AST 5334          COS-PHYS          3(3,0)
Extrasolar Planets and Brown Dwarfs PR: Admission to Physics M.S. or Physics Ph.D., or C.I. Substellar-mass objects, their formation, evolution, dynamics, detection, and environments. Rationale: This class was originally taught by Prof. Eduardo Martin (former Physics faculty), who had a non-tenure-track position that was cut during the economic crash. The class was popular. This is one of the most quickly developing areas in modern astronomy and the class prepares students to participate in existing faculty research. There is high interest among students.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>PRs</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 5255</td>
<td>Physics of Fluids and Biofluids</td>
<td>PHY 3513, PHY 3323, and MAP 2302 or C.I. Ideal Fluids; Basic equation of fluid flow; Viscous flow, instability and turbulence; Thermal and mass transfers in fluids, biofluid mechanics of blood circulation.</td>
<td>3(3,0)</td>
<td>Rationale: The Physics department plans to offer the following elective courses in the immediate future to maintain a diverse curriculum in different fronts of physics. These courses have not been offered during the last years due to the limiting number of instructors in the department during a time of a substantial increase of the number of students enrolled in physics courses. With the recent hires of physics faculty, it is the department's plan to start offering these courses again soon.</td>
</tr>
<tr>
<td>PHY 5715</td>
<td>Physical Basis of Life</td>
<td>Graduate standing or C.I. Molecular and physical principles of origin of life, physical and chemical interpretation of life processes.</td>
<td>3(3,0)</td>
<td>Rationale: The Physics department plans to offer the following elective courses in the immediate future to maintain a diverse curriculum in different fronts of physics. These courses have not been offered during the last years due to the limiting number of instructors in the department during a time of a substantial increase of the number of students enrolled in physics courses. With the recent hires of physics faculty, it is the department's plan to start offering these courses again soon.</td>
</tr>
<tr>
<td>PHZ 5432</td>
<td>Introduction to Soft Condensed Matter Physics</td>
<td>PHY 3513 or C.I. Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics.</td>
<td>3(3,0)</td>
<td>Rationale: The Physics department plans to offer the following elective courses in the immediate future to maintain a diverse curriculum in different fronts of physics. These courses have not been offered during the last years due to the limiting number of instructors in the department during a time of a substantial increase of the number of students enrolled in physics courses. With the recent hires of physics faculty, it is the department's plan to start offering these courses again soon.</td>
</tr>
<tr>
<td>PHZ 5505</td>
<td>Plasma Physics</td>
<td>PHY 4324, and graduate status or senior standing or C.I. Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion.</td>
<td>3(3,0)</td>
<td>Rationale: The Physics department plans to offer the following elective courses in the immediate future to maintain a diverse curriculum in different fronts of physics. These courses have not been offered during the last years due to the limiting number of instructors in the department during a time of a substantial increase of the number of students enrolled in physics courses. With the recent hires of physics faculty, it is the department's plan to start offering these courses again soon.</td>
</tr>
<tr>
<td>CPO 6446</td>
<td>Comparative Political Parties</td>
<td>C.I. Theories of the formation, structure, organization, and behavior of political parties as well as theories of political party systems.</td>
<td>3(3,0)</td>
<td>Rationale: Course will be offered in 2017-18.</td>
</tr>
</tbody>
</table>
Human Factors and Aging PR: Graduate standing, post bac, or senior standing with C.I. An overview of issues related to enhancing quality of life of elderly through the implementation of basic human factors principles in environmental and task design.
Rationale: Recently hired 3 new faculty members that are experts in aging. Anticipate the course will be offered in the near future as an elective.
**Graduate M&S Fees Minutes**  
**November 9, 2016**

*Blue highlighting = Fee decrease*

<table>
<thead>
<tr>
<th>College</th>
<th>Course</th>
<th>Title</th>
<th>Current Fee</th>
<th>Requested Fee</th>
<th>Approved Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAH</td>
<td>MUN 5445</td>
<td>Percussion Ensemble</td>
<td>$ 35.00</td>
<td>$ 35.00</td>
<td>$35.00</td>
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<tr>
<td>CAH</td>
<td>MUO 5505L</td>
<td>Graduate Opera Workshop</td>
<td>$ 70.00</td>
<td>$ 70.00</td>
<td>$70.00</td>
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<tr>
<td>COS</td>
<td>PCB 7049C</td>
<td>Conservation Biology Pract...</td>
<td>$ 70.00</td>
<td>$ 0.00</td>
<td>$ 0.00</td>
</tr>
<tr>
<td>HPA</td>
<td>SPA 6204</td>
<td>Articulation/Phonological...</td>
<td>$ 45.00</td>
<td>$ 18.24</td>
<td><strong>$18.00</strong></td>
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<tr>
<td>HPA</td>
<td>SPA 6211C</td>
<td>Voice Disorders</td>
<td>$ 15.00</td>
<td>$ 14.74</td>
<td><strong>$15.00</strong></td>
</tr>
<tr>
<td>HPA</td>
<td>SPA 6474</td>
<td>Assessment and Management...</td>
<td>$ 60.00</td>
<td>$ 64.34</td>
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<td>HPA</td>
<td>SPA 6496</td>
<td>Language Disorders in Chi...</td>
<td>$ 70.00</td>
<td>$ 70.00</td>
<td><strong>$70.00</strong></td>
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<tr>
<td>HPA</td>
<td>SPA 6943C</td>
<td>Clinical Practice Level I</td>
<td>$ 40.00</td>
<td>$ 40.32</td>
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<tr>
<td>HPA</td>
<td>PHT 5125L</td>
<td>Clinical Kinesiology Lab</td>
<td>$ 35.00</td>
<td>$ 35.37</td>
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<tr>
<td>HPA</td>
<td>PHT 5218L</td>
<td>Theories and Procedures I...</td>
<td>$ 30.00</td>
<td>$ 35.64</td>
<td><strong>$30.00</strong></td>
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<tr>
<td>HPA</td>
<td>PHT 5240L</td>
<td>Physical Assessment Lab</td>
<td>$ 45.00</td>
<td>$ 48.26</td>
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<tr>
<td>HPA</td>
<td>PHT 5260L</td>
<td>Patient Care Skills Lab</td>
<td>$ 30.00</td>
<td>$ 33.62</td>
<td><strong>$30.00</strong></td>
</tr>
<tr>
<td>HPA</td>
<td>PHT 5718L</td>
<td>Neurological Physical The...</td>
<td>$ 30.00</td>
<td>$ 33.30</td>
<td><strong>$30.00</strong></td>
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<tr>
<td>HPA</td>
<td>PHT 6115C</td>
<td>Gross Anatomy/Neuroscienc...</td>
<td>$ 70.00</td>
<td>$ 70.00</td>
<td><strong>$70.00</strong></td>
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<tr>
<td>HPA</td>
<td>PHT 6118C</td>
<td>Gross Anatomy/Neuroscienc...</td>
<td>$ 70.00</td>
<td>$ 70.00</td>
<td><strong>$70.00</strong></td>
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<tr>
<td>HPA</td>
<td>PHT 6156C</td>
<td>Applied Human Physiology ...</td>
<td>$ 25.00</td>
<td>$ 29.53</td>
<td><strong>$25.00</strong></td>
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<tr>
<td>HPA</td>
<td>PHT 6219L</td>
<td>Theories and Procedures I...</td>
<td>$ 45.00</td>
<td>$ 44.96</td>
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</tr>
<tr>
<td>HPA</td>
<td>PHT 6242L</td>
<td>Orthopedic Physical Thera...</td>
<td>$ 40.00</td>
<td>$ 39.55</td>
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<td>HPA</td>
<td>PHT 6719L</td>
<td>Advanced Neurological Phy...</td>
<td>$ 25.00</td>
<td>$ 29.43</td>
<td><strong>$25.00</strong></td>
</tr>
</tbody>
</table>
Percussion Ensemble: PR: Open to all graduate students by audition. Study and performance of music for small percussion ensembles. May be used in the degree program a maximum of 4 times. *Odd Fall.*

Materials & Supply Fee proposed revision: from $35.00 to $35.00

**Brief description of fee use:**

Percussion students practice on UCF owned equipment & instruments. Snare drums, bass drums, tom-toms, World Music drums, and timpani all have "drum heads" that are struck repeatedly by the students. These heads are made of plastic or animal skin and break or rip on a regular basis. The students practice on mallet keyboard instruments. The bars are suspended by a custom made rope and the rope breaks after a number of hours of the bars being struck. Cymbals are suspended via straps and felts and they need to be replaced as they wear out. Although breakage and wear occur throughout the semester, all of these items need to be replaced at least annually. New sheet music also needs to be purchased each semester.

Each item below is per 2 students

<table>
<thead>
<tr>
<th># units/2 students</th>
<th>Description</th>
<th>cost/2 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>4 sets Ensemble Sheet Music (score and parts)</td>
<td>$ 50.00</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>2.</td>
<td>2 sets Cymbal Straps and Felts</td>
<td>$ 5.00</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>3.</td>
<td>2 sets Key board ropes</td>
<td>$ 5.00</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>4.</td>
<td>2 Drumheads</td>
<td>$ 10.00</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

**Total:** $ 70.00 per 1 student $ 35.00

MUO 5505L CAH-MUSIC 1(0,3)

Graduate Opera Workshop: PR: C.I. and audition. Study of audition techniques, operatic roles and repertoire, and characterization through performance. May be used in the degree program a maximum of 5 times.

Materials & Supply Fee proposed revision: from $70.00 to $70.00

**Brief description of fee use:**

This fee is used to purchase musical scores, costumes, make-up, and sets/properties used in UCF opera productions. The students are not required to purchase a textbook or any other course materials, and it is more practical to purchase the materials in bulk rather than for students purchase them.

Each item below is per 2 students

<table>
<thead>
<tr>
<th># units/2 students</th>
<th>Description</th>
<th>cost/2 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Denied
<table>
<thead>
<tr>
<th># units/2 students</th>
<th>Description</th>
<th>cost/2 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 2</td>
<td>Costumes</td>
<td>$60.00</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>2. 2</td>
<td>Make-up</td>
<td>$10.00</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>3. 2</td>
<td>Musical score</td>
<td>$70.00</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>$140.00</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>per 1 student</strong></td>
<td><strong>$70.00</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PCB 7049C  COS-BIOL  4(2,4)**

**Conservation Biology Practice:** PR: Acceptance into the Conservation Biology Ph.D. program. Case studies and evaluation of local and regional conservation issues from a biological perspective. *Spring.*

**Materials & Supply Fee proposed revision:** from $70.00 to $0.00

**Brief description of fee use:**
Course is now PCB 6053C which has a fee. Delete fee.

Each item below is per 5 students

<table>
<thead>
<tr>
<th># units/5 students</th>
<th>Description</th>
<th>cost/5 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total:</strong></td>
<td><strong>$0.00</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>per 1 student</strong></td>
<td><strong>$0.00</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SPA 6204  HPA-COM SC&DIS  3(3,0)**

**Articulation/Phonological Disorders:** PR: Admission to M.A. in Communication Sciences and Disorders or C.I. Advanced theory, diagnosis, and treatment of articulation/phonological disorders including developmental apraxia of speech, dysarthria, and cleft palate; communicative differences vs. disorders emphasized. *Fall, Spring, Summer.*

**Materials & Supply Fee proposed revision:** from $45.00 to $18.24

**Brief description of fee use:**
Students learn to conduct clinical assessments, examine treatments that would be appropriate for the presenting speech and/or phonological problem and develop treatment plans for simulated clients. To become knowledgeable and proficient in this disorder area, students require access to the materials and supplies listed. Note that the protocols listed are necessary for student exposure, because the tests associated with the them will be used when the students enter their clinical portion of the program. Further, students perform oral peripheral and oro-motor examinations in the class, thus the need for sterile tongue blades and gloves.

Each item below is per 105 students
<table>
<thead>
<tr>
<th># units/105 students</th>
<th>Description</th>
<th>cost/105 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Medline Sterile Tongue Depressors</td>
<td>$17.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Powdered Nitrile Medical Gloves</td>
<td>$17.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Khan-Lewis Phonological Analysis-3rd Edition</td>
<td>$295.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Goldman-Fristoe Test of Phonological Processes</td>
<td>$130.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Diagnostic Evaluation of Articulation and Toddler Phonology (DEAP and TPT)</td>
<td>$200.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Clinical Assessment of Articulation and Phonology CAAP forms 2nd edition</td>
<td>$400.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>LinguiSystem Artication Test (LAT)</td>
<td>$180.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>DEAP &amp; TPT Phonology forms</td>
<td>$169.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>DEAP and TPT Articulation and Oro-Motor forms</td>
<td>$169.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Clinical Assessment of Articulation and Phonology App</td>
<td>$200.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total:</td>
<td></td>
<td>$1915.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>per 1 student</td>
<td></td>
<td>$18.24</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SPA 6211C**  
**HPA-COM SC&DIS**  
4(3,1)

**Voice Disorders:** PR: Admission to M.A. in Communication Sciences and Disorders or C.I. Study of the etiology, evaluation, and management of voice disorders in children and adults, with laboratory demonstration and participation. *Fall, Spring.*

**Materials & Supply Fee proposed revision:** from $15.00 to $14.74

**Brief description of fee use:**
Course includes hands-on training with endoscopy (flexible and rigid). The system requires replacement items from frequent use and disposables for every use. Hands on training for laryngectomy requires exposure and use of various medical supplies. Some of these supplies are one-time use and others need replacement with use during the semester (electrolarynix, batteries, prosthesis).

Each item below is per 1 students
<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cotton Balls</td>
<td>$ 0.17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Alcohol Preps</td>
<td>$ 0.28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Cidex</td>
<td>$ 0.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Hand Soap</td>
<td>$ 0.22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Gloves</td>
<td>$ 0.51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>4 X 4 Gauze</td>
<td>$ 0.51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Tongue blades</td>
<td>$ 0.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Batteries for Electrolarynx</td>
<td>$ 0.34</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Disposable tubes/filters</td>
<td>$ 0.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Tracheoesophageal prosthesis (various sizes/types)</td>
<td>$ 7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Laryngectomy Kit (incl. stoma cover and lary tube heat moisture exchange system)</td>
<td>$ 4.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Box of Straws</td>
<td>$ 0.19</td>
<td></td>
<td></td>
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</tbody>
</table>

**Total:** $ 14.74

per 1 student $ 14.74

**SPA 6474**

**HPA-COM SC&DIS**

3(3,0)

**Assessment and Management of Culturally and Linguistically Diverse Populations:** PR: Admission to MA in Communication Sciences or C.I. Role of native and second languages, dialects and culture in the assessment and management of individuals from culturally and linguistically diverse backgrounds. **Fall, Spring.**

**Materials & Supply Fee proposed revision:** from $60.00 to $64.34

**Brief description of fee use:**

Students are required to become familiar with a variety of assessment instruments used to assess English learners in order to determine if their is a communication difference versus a communication disorder. Students are required to read test manual, administer and use test protocols to better understand test administration, scoring and recommendation. Students must also become familiar with a variety of treatment protocols, approaches and/or strategies used to support the English learner with a communication disorder as they progress through their K-12 academic program or prepare treatment programs for adults with communication disorders for whom English is not their primary language.

Each item below is per 1 students
<table>
<thead>
<tr>
<th>No.</th>
<th>Quantity</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1</td>
<td>Wookcock-Munoz Lang Survey - English Test Records</td>
<td>$1.43</td>
</tr>
<tr>
<td>2.</td>
<td>1</td>
<td>Wookcock-Munoz Lang Survey - Spanish Test Records</td>
<td>$1.43</td>
</tr>
<tr>
<td>3.</td>
<td>1</td>
<td>Preschool Language Scale - Span Record Forms</td>
<td>$1.57</td>
</tr>
<tr>
<td>4.</td>
<td>1</td>
<td>Multilingual Aphasia Exam - Spanish Spelling/Aural/Reading</td>
<td>$0.86</td>
</tr>
<tr>
<td>5.</td>
<td>1</td>
<td>Multilingual Aphasia Exam - Spanish Token Test</td>
<td>$0.86</td>
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<tr>
<td>6.</td>
<td>1</td>
<td>Multilingual Aphasia Examination - Spanish Visual Naming</td>
<td>$0.86</td>
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<tr>
<td>7.</td>
<td>1</td>
<td>Multilingual Aphasia Exam - Spanish Word Association</td>
<td>$0.86</td>
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<tr>
<td>8.</td>
<td>1</td>
<td>MacArthur Inventarioes del Desarrollo de Habilidades Comunicacion: Palabras y Getos</td>
<td>$0.95</td>
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<tr>
<td>9.</td>
<td>1</td>
<td>Lang Assess Scales-Reading&amp;Writing - Span Student Answer</td>
<td>$1.86</td>
</tr>
<tr>
<td>10.</td>
<td>1</td>
<td>Lang Assess Scales-Reading&amp;Writing - Span Writing Test</td>
<td>$2.09</td>
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<tr>
<td>11.</td>
<td>1</td>
<td>Lang Assess Scales-Reading&amp;Writing - Span Reading Test</td>
<td>$2.79</td>
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<tr>
<td>12.</td>
<td>1</td>
<td>Lang Assess Scales-Reading&amp;Writing - Span Student Answer</td>
<td>$1.86</td>
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<td>13.</td>
<td>1</td>
<td>Lang Assess Scales-Reading&amp;Writing - Span Writing Test</td>
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<tr>
<td>14.</td>
<td>1</td>
<td>Lang Assess Scales-Reading&amp;Writing - Spanish Reading Test Books</td>
<td>$2.79</td>
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<td>15.</td>
<td>1</td>
<td>Language Assessment Scales-Oral Span Ed - Spanish Writing Test</td>
<td>$2.20</td>
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<td>16.</td>
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<td>Language Assessment Scales-Oral Span Ed - Spanish Test Books</td>
<td>$4.34</td>
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<tr>
<td>17.</td>
<td>1</td>
<td>Lang Assess Scales-Oral Span Ed Student Profile Sheets</td>
<td>$1.17</td>
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<td>18.</td>
<td>1</td>
<td>Lang Assess Scales-Oral Span Ed Student Answer Books</td>
<td>$1.97</td>
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<td>19.</td>
<td>1</td>
<td>Language Assessment Scales-Oral Span Ed - Student Prof Sheet</td>
<td>$1.17</td>
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<tr>
<td>No.</td>
<td>Quantity</td>
<td>Description</td>
<td>Price</td>
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<td>------------------------------------------------------------------------------</td>
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<tr>
<td>20</td>
<td>1</td>
<td>Language Assessment Scales- Oral Spanish Edition</td>
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<td>21</td>
<td>1</td>
<td>Spanish Articulation Measures - Record Forms</td>
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<td>22</td>
<td>1</td>
<td>Receptive One-Word Picture Vocabulary Test Spanish-Bilingual</td>
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<tr>
<td>23</td>
<td>1</td>
<td>Expressive One-word picture vocab test Spanish-Bilingual</td>
<td>$0.86</td>
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<td>24</td>
<td>1</td>
<td>Dos Amigos Verbal Language Scales - Test Forms</td>
<td>$0.57</td>
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<td>25</td>
<td>1</td>
<td>Diagnostic Evaluation of Language Variance - Record Form</td>
<td>$1.71</td>
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<td>26</td>
<td>1</td>
<td>Cognitive Linguistic Quick Test - English Record Form</td>
<td>$2.00</td>
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<td>27</td>
<td>1</td>
<td>Cognitive Linguistic Quick Test (CLQT) - Spanish Record Form</td>
<td>$1.20</td>
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<td>28</td>
<td>1</td>
<td>Clinical Evaluation of Language Fundamentals - Record Forms</td>
<td>$1.94</td>
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<tr>
<td>29</td>
<td>1</td>
<td>Clinical Evaluation of Language Fundamentals - Record Forms</td>
<td>$1.94</td>
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<td>30</td>
<td>1</td>
<td>Bilingual Language Proficiency Questionnaire</td>
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<td>31</td>
<td>1</td>
<td>Bilingual Health and Developmental History Questionnaire</td>
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<td>32</td>
<td>1</td>
<td>Bilingual Classroom Communication Profile - Questionnaire</td>
<td>$0.83</td>
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<tr>
<td>33</td>
<td>1</td>
<td>Diagnostic Supplement Test Records</td>
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<tr>
<td>34</td>
<td>1</td>
<td>Brief Intellectual Ability Test Records</td>
<td>$1.14</td>
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<tr>
<td>35</td>
<td>1</td>
<td>Test of Achievement Test Records &amp; Subject Response Booklets</td>
<td>$2.31</td>
</tr>
<tr>
<td>36</td>
<td>1</td>
<td>Tests of Cognitive Abilities Records and Subject Response Bo</td>
<td>$2.43</td>
</tr>
<tr>
<td>37</td>
<td>1</td>
<td>ROWVPT (English)</td>
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<tr>
<td>38</td>
<td>1</td>
<td>EOWPVT (English)</td>
<td>$1.68</td>
</tr>
<tr>
<td>39</td>
<td>1</td>
<td>Preschool Language Scales PLS-5 (English)</td>
<td>$3.16</td>
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<tr>
<td>40</td>
<td>1</td>
<td>MacArthur Inventario del Desarrollo de Habilidades Comunicacion: Palabras y Enunciados</td>
<td>$0.95</td>
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</tbody>
</table>
SPA 6496                                     HPA-COM SC&DIS                                                 6(6,0)

Language Disorders in Children and Adolescents: PR: Admission to M.A. in Communication Sciences and Disorders or C.I. The nature, assessment and management of spoken and written language disorders in children and adolescents. Fall, Spring, Summer.

Materials & Supply Fee proposed revision: from $70.00 to $70.00

Brief description of fee use:

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Detroit Test of Learning Aptitude - Primary:3</td>
<td>$ 0.40</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>2.</td>
<td>Test of Early Written Language-2</td>
<td>$ 7.90</td>
<td>□</td>
<td>□</td>
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<tr>
<td>3.</td>
<td>Test of Word Finding in Discourse</td>
<td>$ 1.80</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td></td>
<td>Test of Adolescent &amp; Adult Language - 4</td>
<td>$ 5.88</td>
<td>□</td>
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<tr>
<td>4.</td>
<td>Assess of Lang and Literacy</td>
<td>$ 2.16</td>
<td>□</td>
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<td>5.</td>
<td>Test of Language Development - Primary:4</td>
<td>$ 3.08</td>
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<td>6.</td>
<td>Preschool Language Scale -4</td>
<td>$ 3.12</td>
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<td>7.</td>
<td>Clinical Evaluation of Language Fundamentals Preschool:2</td>
<td>$ 2.80</td>
<td>□</td>
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<tr>
<td>8.</td>
<td>Diagnostic Evaluation of Language Variation - Norm Ref</td>
<td>$ 2.40</td>
<td>□</td>
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<tr>
<td>9.</td>
<td>Woodcock Reading Mastery Test-R</td>
<td>$ 2.32</td>
<td>□</td>
<td>□</td>
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<tr>
<td>11.</td>
<td>Test of Pragmatic Language</td>
<td>$ 4.32</td>
<td>□</td>
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</tbody>
</table>
Detroit Test of Learning Aptitude - 4th Edition $ 3.64 □ □

Diagnostic Assessments of Reading - 2nd Edition $ 5.07 □ □

Comprehensive Assessment of Spoken Language CASL $ 5.42 □ □

Total: $ 70.00

per 1 student $ 70.00

SPA 6943C HPA-COM SC&DIS 3(1,4)

Clinical Practice Level I: PR: SPA 6942, SPA 6942L. Clinical practicum for the demonstration of knowledge and skill application in the diagnosis, treatment and management of persons with complex communication disorders across the lifespan. Fall, Spring, Summer.

Materials & Supply Fee proposed revision: from $40.00 to $40.32

Brief description of fee use:

Students enrolled in SPA 6943C administer a variety of assessments and provide therapeutic intervention to clients with complex communication needs. The materials and supply fee justification outlines the cost for different assessments and their associated protocols. Replacement occurs biannually or sooner if the assessment has been revised. Other fees include materials for establishing alternative and augmentative communication boards, oral mechanism supplies and sanitization supplies to prevent cross contamination of germs for non-disposable surfaces. Finally the fees include printing and copying HIPPA protected client information that students produce as part of their clinical education (including SOAP notes, progress reports, medical correspondence, etc.) which must be done in the clinic and in compliance with HIPPA standards.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Protocols for OWLS</td>
<td>$ 0.48</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>2.</td>
<td>Protocols for TOAL-4 Written</td>
<td>$ 1.89</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td></td>
<td>Protocols for ABA-2, FLCI, ABCD, RCBA, RIPA, HAPP-3</td>
<td>$ 4.08</td>
<td>□</td>
<td>□</td>
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<tr>
<td>4.</td>
<td>Protocols for TOSS-P</td>
<td>$ 0.39</td>
<td>□</td>
<td>□</td>
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<td>5.</td>
<td>Protocols for WAB, CLQT, TOAL4</td>
<td>$ 5.48</td>
<td>□</td>
<td>□</td>
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<td>6.</td>
<td>Protocols for WJ Cog</td>
<td>$ 6.09</td>
<td>□</td>
<td>□</td>
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<tr>
<td>7.</td>
<td>Protocols for BAB SSC</td>
<td>$ 2.50</td>
<td>□</td>
<td>□</td>
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<tr>
<td>8.</td>
<td>Tongue Depressors</td>
<td>$ 1.50</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>9.</td>
<td>RICE Protocol</td>
<td>$ 0.49</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>
10. 1 ProEd BDAE and BNT Protocols $ 4.41 □ □
11. 1 ProEd FDA-2 Protocol $ 0.97 □ □
12. 1 Pearson PALPA $ 0.76 □ □
13. 1 Mayer-Johnson TASP $ 1.41 □ □
14. 1 ProEd TNL $ 1.18 □ □
15. 1 ProEd AIDS $ 0.17 □ □
16. 1 WPS $ 3.16 □ □
17. Sanitizing Supplies $ 1.61 □ □
18. AAC Visual Board Materials $ 3.75 □ □

Total: $ 40.32
per 1 student $ 40.32

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PHT 5125L HPA-HP 2(0,4)


Materials & Supply Fee proposed revision: from $35.00 to $35.37

Brief description of fee use:

This is a lab-based course in which the students learn palpation skills, movement analysis, and gait analysis. Since it is lab based and students have skin exposed to mat-tables and each other for palpation, the entire environment needs to be appropriately cleaned on a daily basis (hand sanitizers, table & environment disinfectants), as well as appropriately draped for privacy and to cover surfaces when needed. Gait is analyzed for spatial characteristics. Students feet are painted and the characteristics are left behind on roll-out paper, where the students make their measurements, observations, and analysis. Further objectives of the course are to examine movement, functional movement, and exercise. To examine muscle contraction, firing, and peak amplitude characteristics, students examine these characteristics through EMG muscle analysis captured through biofeedback.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 36</td>
<td>Muscle conduction and amplitude analysis</td>
<td>$ 20.40</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>2. 3</td>
<td>Paints</td>
<td>$ 1.00</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>3. 1</td>
<td>Paper Roll</td>
<td>$ 0.83</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>4. 1</td>
<td>Linens</td>
<td>$ 9.44</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>5. 2</td>
<td>Antimicrobrial/Handwash</td>
<td>$ 1.94</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>6. 2</td>
<td>Mat table and surface disinfectant</td>
<td>$ 1.76</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

Materials & Supply Fee proposed revision: from $30.00 to $35.64

Brief description of fee use:
This is a lab course in which students learn and practice treatment modalities including application of thermal agents, ultrasound, hydrotherapy, therapeutic message, traction, compression and diathermy. The supplies are required to successfully complete course activities.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1</td>
<td>Cold Packs 3 sizes; cervical, standard, XL</td>
<td>$ 2.48</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td></td>
<td>Hot packs 3 sizes; cervical, standard XL</td>
<td>$ 3.22</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>2. 1</td>
<td>Low Stretch Medical Bandage 4” wide</td>
<td>$ 0.62</td>
<td>□</td>
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<tr>
<td>3. 1</td>
<td>Stockinette 25 yards</td>
<td>$ 0.98</td>
<td>□</td>
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<tr>
<td>4. 2</td>
<td>Paraffin wax refills 5295-01</td>
<td>$ 2.42</td>
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<tr>
<td>5. 1</td>
<td>Ultrasound gel</td>
<td>$ 0.66</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>6. 2</td>
<td>Deep Prep massage cream</td>
<td>$ 1.74</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>7. 4</td>
<td>Cramer Cold spray 7454</td>
<td>$ 2.03</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>8. 1</td>
<td>Isopropyl Alcohol 5611-84</td>
<td>$ 1.22</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>9. 1</td>
<td>All Purpose Disinfectant Cleaner 9651-36</td>
<td>$ 1.81</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>10. 2</td>
<td>Hand Sanitizer 9251-36</td>
<td>$ 1.46</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>11. 2</td>
<td>Linens (used in 10 lab courses $6000X.10)=600</td>
<td>$ 17.00</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>12. 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total: $ 35.64

per 1 student $ 35.64
Physical Assessment Lab: CR: Physical Assessment. Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient. Fall.

Materials & Supply Fee proposed revision: from $45.00 to $48.26

Brief description of fee use:

This is a lab course in which students learn range of motion, sensation and reflexes. Activities require frequent student to student physical contact and, thus, appropriate infection control is required.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Finger Gonimeter</td>
<td>$ 5.80</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>2.</td>
<td>2-point Discriminator 5632-35</td>
<td>$ 10.09</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>3.</td>
<td>Tape Measure</td>
<td>$ 12.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All Purpose Disinfectant Cleaner</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>9651-36</td>
<td>$ 1.81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Hand Sanitizer 9251-56</td>
<td>$ 1.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Linens ($6000/yr used in 10 labs)/36 students</td>
<td>$ 17.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>each lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>$ 32.37</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>per 1 student:</strong></td>
<td></td>
<td><strong>$ 32.37</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PHT 5260L HPA-HP 1(0,2)

Patient Care Skills Lab: CR: Patient Care Skills. Skills of patient care, transfers, mobility skills. Fall.

Materials & Supply Fee proposed revision: from $30.00 to $33.62

Brief description of fee use:

This is a lab course which includes introduction and performance in infection control measures, assessment of vital signs, patient positioning and draping, patient handling including bed mobility and transfers and basics of wound care. Activities require frequent student-to-student physical contact, thus appropriate infection control is required. The following supplies are necessary for successful completion of the lab activities.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Replacement hand grips &amp; underarm pad</td>
<td>$ 0.42</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Replacement tips for canes, walkers, crutches</td>
<td>$ 0.78</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7203-01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># units/1 students</td>
<td>Description</td>
<td>cost/1 students</td>
<td>Committee</td>
<td>Provost</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------------------------------------------</td>
<td>-----------------</td>
<td>-----------</td>
<td>---------</td>
</tr>
<tr>
<td>3. 1</td>
<td>Stretch Gauze Bandages</td>
<td>$ 1.81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 1</td>
<td>Gauze Sponges</td>
<td>$ 0.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. 1</td>
<td>Disposable gloves Latex-free 5243-02</td>
<td>$ 0.76</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. 1</td>
<td>Sterile Latex Gloves 7143</td>
<td>$ 2.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. 1</td>
<td>Surgical Face Mask 0814-64-068</td>
<td>$ 0.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. 1</td>
<td>Sterile fields 5546-13</td>
<td>$ 0.82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. 1</td>
<td>Disposable sheaths for digital thermometer</td>
<td>$ 0.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. 1</td>
<td>Personal Protective Equipment Kits</td>
<td>$ 3.11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. 1</td>
<td>All purpose disinfectant Cleander 9651-36</td>
<td>$ 1.81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. 2</td>
<td>Hand Sanitizer</td>
<td>$ 1.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. 1</td>
<td>Linens ($6000/yr used in 10 labs)</td>
<td>$ 17.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. 2</td>
<td>Replacement walker/crutch pads</td>
<td>$ 2.10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total:** $ 33.62  
**per 1 student** $ 33.62

**PHT 5718L  HPA-HP  1(0,2)**

**Neurological Physical Therapy Lab:** CR: Neurological Physical Therapy. Lab Course emphasizing the clinical application of selected neuromotor theories. *Summer.*

**Materials & Supply Fee proposed revision:** from $30.00 to $33.30

**Brief description of fee use:**

This is a lab course in which students learn and practice the components of a comprehensive neurological examination. These supplies and tools are needed to provide this learning experience.

Each item below is per 1 students
7.  
Linens ($6000/yr X 10 labs = $600/lab for 36 students $17.00 □ □
7 piece Tuning fork and reflex hammer $ 9.50 □ □

Total: $33.30
per 1 student $33.30

PHT 6115C | HPA-HP | 6(3,6)

Gross Anatomy/Neuroscience I: PR: Admission to DPT program. Study of human anatomy via lecture and cadaver dissection emphasizing upper and lower extremity, musculoskeletal, peripheral vascular and peripheral nervous systems, thoracic and abdominopelvic cavities. Summer.

Materials & Supply Fee proposed revision: from $70.00 to $70.00

Brief description of fee use:
This is the first course in a two-semester sequence providing first-year DPT students with a detailed examination of human anatomy, including the peripheral and central nervous systems. The requested lab fees will be used to purchase human cadaver specimens, subsidize procurement, preparation, disposal (cremation), and transportation of cadavers to and from the State Anatomical Board facility at the UCF Medical City Campus. Fees are also used to contract for routine biohazard waste removal services, purchase tissue preservation solutions, anatomical models, dissection tool and personal safety equipment.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1</td>
<td>Human Cadaver - plus additional items</td>
<td>$70.00</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

Total: $70.00
per 1 student $70.00

PHT 6118C | HPA-HP | 6(3,6)

Gross Anatomy/Neuroscience II: PR: Gross Anatomy/Neuroscience I. Comprehensive study of anatomy and physiology of the nervous system to develop DPT students' improved treatment strategies for patients with neurological problems. Fall.

Materials & Supply Fee proposed revision: from $70.00 to $70.00
**Brief description of fee use:**

This is the second course in a two-semester sequence providing first-year DPT students with a detailed examination of human anatomy, including the peripheral and central nervous systems. The requested lab fees will be used to purchase human cadaver specimens, subsidize procurement, preparation, disposal (cremation), and transportation of cadavers to and from the State Anatomical Board at the UCF Medical Center Campus at Lake Nona. Fees are also used to contract for routine biohazard waste removal services, purchase tissue preservation solutions, anatomical models, dissection tools and personal safety equipment.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Human cadavers - plus additional items</td>
<td>$ 70.00</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

**Total: $ 70.00**

**per 1 student** $ 70.00

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**PHT 6156C**  
**HPA-HP**  
**5(3,2)**

**Applied Human Physiology for Health Sciences:** PR: Admission to the Doctor of Physical Therapy program. Course provides in-depth study of human cardiovascular, hemopoietic, respiratory, gastrointestinal, renal and reproductive systems with emphasis on mechanisms responsible for maintaining homeostasis. **Fall.**

**Materials & Supply Fee proposed revision:** from $25.00 to $29.53

**Brief description of fee use:**

This course provides the first-year DPT student with a comprehensive overview of human systems physiology with an emphasis on the cardiovascular system. Laboratory experiences include the theoretical and practical application of EKG, metabolic testing, and other non-invasive measures of cardiovascular fitness.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alcohol Preps</td>
<td>$ 0.53</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>2</td>
<td>Nitrile Disposable Gloves - XL</td>
<td>$ 2.00</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>3</td>
<td>Nitrile Disposable Gloves - Large</td>
<td>$ 2.00</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>4</td>
<td>Nitrile Disposable Gloves - medium</td>
<td>$ 2.00</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>5</td>
<td>Nitrile Disposable Gloves - Small</td>
<td>$ 2.00</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>6</td>
<td>Tringo Sensor Skin Interface $35/pack of 80</td>
<td>$ 1.00</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>
PHT 6219L  
HPA-HP  
1(0,2)

**Theories and Procedures II Lab**: PR: Theories and Procedures I and lab; CR: Theories and Procedures II. Lab course focusing on electrodiagnosis and electrophysiologic examinations, and the interventions used in the treatment of pain and dysfunction. *Summer.*

**Materials & Supply Fee proposed revision**: from $45.00 to $44.96

**Brief description of fee use:**
This is a lab course in which students learn and practice treatment electromagnetic modalities including electrical stimulation, iontophoresis, biofeedback, nerve testing, laser and light therapy and lymph drainage. These supplies are required to successfully completed required activities for the class.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Denied</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1</td>
<td>EMG Triode electrodes 9223-01</td>
<td>$ 3.79</td>
<td>☐ ☐ ☐</td>
</tr>
<tr>
<td></td>
<td>Batteries AA Carton of 24, 9-volt</td>
<td>Carton of 12</td>
<td>$ 1.73</td>
</tr>
<tr>
<td>2. 2</td>
<td>Iontophoresis Dupel 5543-10, 5443-11, 5543-12</td>
<td>$ 12.76</td>
<td>☐ ☐ ☐</td>
</tr>
<tr>
<td>3. 1</td>
<td>Valutrode 2&quot;x3.5&quot; rectangle electrodes</td>
<td>$ 2.24</td>
<td>☐ ☐ ☐</td>
</tr>
<tr>
<td>4. 1</td>
<td>Valutrode 2&quot; square electrodes</td>
<td>$ 1.84</td>
<td>☐ ☐ ☐</td>
</tr>
<tr>
<td>5. 1</td>
<td>Isopropyl Alcohol 5611-84</td>
<td>$ 1.22</td>
<td>☐ ☐ ☐</td>
</tr>
<tr>
<td>6. 1</td>
<td>All Purpose Disinfectant Cleaner 9651-36</td>
<td>$ 1.81</td>
<td>☐ ☐ ☐</td>
</tr>
<tr>
<td>7. 2</td>
<td>Hand Sanitizer 9251-56</td>
<td>$ 1.46</td>
<td>☐ ☐ ☐</td>
</tr>
<tr>
<td>8. 1</td>
<td>Linens ($6000/year for 10 labs for 36 students)</td>
<td>$ 17.00</td>
<td>☐ ☐ ☐</td>
</tr>
<tr>
<td>9. 1</td>
<td>ComforTENs Plus with Performa Electrodes</td>
<td>$ 1.11</td>
<td>☐ ☐ ☐</td>
</tr>
</tbody>
</table>

**Total**: $ 44.96  
**per 1 student**: $ 44.96
Orthopedic Physical Therapy Lab: CR: Orthopedic Physical Therapy. Lab course emphasizing the examinations and interventions for the evaluation and treatment of specific orthopedic cases and injuries. 

Materials & Supply Fee proposed revision: from $40.00 to $39.55

Brief description of fee use:

This is a lab-based course involving the handling of patients to test integrity of orthopedic structures. Classroom will require cleansers for treatment tables and antimicrobial hand sanitizer for the students, as well as linens/linen maintenance for draping of students and covering tables. In addition, taping supplies will be necessary for practice of corrective and protective taping procedures (athletic tape, and corrective tape fees). Students will also cover orthotic fabrication, which will require the purchase of plaster for students to practice this skill.

Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Plaster cast material</td>
<td>$6.11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Mat table and surface disinfectant</td>
<td>$1.76</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Antimicrobial/Handwash</td>
<td>$1.94</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Linens</td>
<td>$9.44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Corrective Tape: Cover Role &amp; Leukotape</td>
<td>$18.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Athletic Tape</td>
<td>$1.85</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total:</td>
<td>$39.55</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>per 1 student</td>
<td>$39.55</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Materials & Supply Fee proposed revision: from $25.00 to $29.43

Brief description of fee use:

This is a lab course in which students learn and practice the interventions strategies for treatment of the patient with neurologic impairments. These supplies and tools are needed to provide this learning experience.
Each item below is per 1 students

<table>
<thead>
<tr>
<th># units/1 students</th>
<th>Description</th>
<th>cost/1 students</th>
<th>Committee</th>
<th>Provost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Disposable gloves latex free - S</td>
<td>$0.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Disposable gloves latex free - M</td>
<td>$0.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Disposable gloves latex free - L</td>
<td>$0.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Sterile latex gloves</td>
<td>$1.29</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All Purpose Disinfectant Cleaner 9651-36</td>
<td>$1.81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Hand Sanitizer 9251-56</td>
<td>$1.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Linens ($6000/year used in 10 labs for 36 students</td>
<td>$17.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Package of 6 stopwatches</td>
<td>$5.62</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total: $29.43</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>per 1 student $29.43</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>