

## Department of Physics Policies

Reference	Policy
Meeting Minutes dated 08/25/2015	<p>Making Email Communication Easier:</p> <ul style="list-style-type: none"><li>• Proposal to use the following codes in parenthesis at the end of the subject in <i>ALL</i> emails within the entire department to make communication easier ! for Urgent FYI for For Your Information Only ACR for Action Required This will hopefully help prioritize which emails to open immediately and which to keep for later perusal (meant for the person to whom the email is addressed, <u>not</u> the ones who are copied on the email).</li> <li>• All present at the meeting agreed to follow the proposal.</li></ul>
Meeting Minutes dated 09/29/2015	<p>A four digit code system was instituted for the Department printer/copier to assess the extraordinarily large use of paper within the department.</p>
Meeting Minutes dated 10/06/2015	<p>The work order system initiated when John Beckman was the technician was abandoned per request of the new technician, David Bezinque. There was a unanimous vote for this. Instead, David provides a monthly list of activities with pictures of all the projects he is working or finished to the Chair.</p>
Meeting Minutes dated 10/20/2015	<p>The following BS Physics Curriculum Roadmap was adopted by the faculty on 10/20/2015 as proposed by Dr. Ho: <b>This was superseded by changes made during the meetings on 5/13/2016, 9/20/2016 and 10/18/2016</b></p>

## Bachelor of Science (B.S.) in Physics Outline of Curriculum

<p style="text-align: center;"><u>Fall/1<sup>st</sup> year</u></p> <p>GE - B1: CHEM 1A*          5 units          GE - B4: MATH 75* (Calculus I)    4 units          GE - A1: Oral Communication (3 units)          GE - A2: Written Communication (3 units)                    (Recommended: ENGL 10)          GE - A3: Critical Thinking (3 units)                    (Recommended: NSCI 4)</p>	<p style="text-align: center;"><u>Spring/1<sup>st</sup> year</u></p> <p>GE - B1: PHYS 4A*, 4AL*       3 + 1 units          CHEM 1B*                         5 units          MATH 76* (Calculus II)         4 units          GE - B2: Life Sciences (3-4 units)          GE - C1: Arts (3 units)</p>
<p style="text-align: center;"><u>Fall/2<sup>nd</sup> year</u></p> <p>PHYS 4B*, 4BL*                 3 + 1 units          MATH 77* (Calculus III)        4 units          * Programming Course             Either one of ECE 70 / CSCI 40    3 - 4 units             (Recommending ECE 70/Computational Programming             for Engineers)          GE - C2: Humanities (3 units)          GE - D1: American History (3 units)</p>	<p style="text-align: center;"><u>Spring/2<sup>nd</sup> year</u></p> <p>PHYS 4C*                            3 units          PHYS 105A* (Anal. Mech.)     3 units          MATH 81* (Applied Analysis)   3 units          PHYS 170A (Math. Phys.)     3 units          GE - C1: Arts or C2: Humanities (3 units)</p>
<p style="text-align: center;"><u>Fall/3<sup>rd</sup> year</u></p> <p>PHYS 102* (Mod. Phys.)        3 units          PHYS 105B* (Anal. Mech.)     3 units          PHYS 107A* (Intermediate E&amp;M) 3 units          PHYS 135 (MRI/MRS)            4 units          or PHYS 180(Seminar)           1 unit          GE - D2: American Government (3 units)          GE - D3: Social Science (3 units)</p>	<p style="text-align: center;"><u>Spring/3<sup>rd</sup> year</u></p> <p>PHYS 104* (Exp. Tech. in Condensed          Matter Phys.)                    4 units          PHYS 140* (Thermodynamics)   3 units          PHYS 115* (Q. M.)              3 units          PHYS 107B (Intermediate E&amp;M) 3 units          GE - IB: Physical Universe                    and Its Life Forms (3 units)</p>
<p style="text-align: center;"><u>Fall/4<sup>th</sup> year</u></p> <p>PHYS 110* (Optics)               3 units          PHYS 162 (Condense Matter Phys.) 3 units          PHYS 180/136/151               1 - 4 units          GE - E1: Lifelong Understanding and                    Self-Development (3 units)          GE - IC: Arts &amp; Humanities (3 units)</p>	<p style="text-align: center;"><u>Spring/4<sup>th</sup> year</u></p> <p>PHYS 171* (Anal. Methods - MFT) 2 units          PHYS 137/150/180                1 - 3 units          GE - ID: Social, Political, and Economic                    Institutions and Behavior,                    Historical Background (3 units)          GE - MI: Multicultural/International (3 units)</p>

- ♦ Total Upper-Division Elective      9 units                                  **Approved by Faculty Meeting**
- ♦ Required 15 non-Physics GE courses    45 units    **on 10/20/2015**
- ♦ Courses labeled with \* are the required classes for Physics major.
- ♦ Information of various courses, please check on Fresno-State online Catalog:  
<http://www.fresnostate.edu/catalog/subjects/physics/physics.html#courses>

Meeting  
Minutes  
dated  
11/10/2015

Lab Quizzes given by all lab instructors will be from a bank of questions with Mr. Roger Key. This bank will be periodically reviewed by the lecture instructors.

TA Training will be mandatory and will be provided by Mr. Roger Key. It will be a day long before the beginning of the semester.

Meeting  
Minutes

Per Dr. Paul Hofmann of the International Student Services and Programs, the Department has a 1+1 graduate articulation agreement with NCUE University in Taiwan. There is a set of listed courses which the students

<p>dated 1/19/2016</p>	<p>from NCUE can transfer for a total of 9 units once they advance to candidacy in Fresno State’s program.</p>
<p>Meeting Minutes dated 1/26/2016</p>	<p>A Strategic Five-Year Hiring Plan was voted on 1/19/2016 and was sent to the Dean on 1/27/2016. It is as follows:</p> <p style="text-align: center;"><b><u>5-year Hiring Plan Department of Physics</u></b></p> <p><b><u>Goal/Statement of Direction:</u></b> In the next 5 years, the Department of Physics proposes to make two hires to replace two recently retired condensed matter physics faculty, Dr. Manfred Bucher and Dr. Vanvilai Katkanant. These new hires are intended to address the teaching needs due to the departure of these faculty and to support two principal areas (experimental particle physics and condensed matter physics) that have shown success in grants, publications, student enrollment increase, and student research.</p> <p><b><u>Justification for hiring of theoretical condensed matter physicist:</u></b> The physics department has an active condensed matter experimental program. However, since the retirement of Dr. Manfred Bucher, the department has lacked a theoretical condensed matter faculty. Such a faculty member in condensed matter theory could collaborate with our two condensed matter experimenters, Dr. Pei-Chun Ho and Dr. Daqing Zhang. Condensed matter theory also provides the potential to give theoretical research projects to advanced undergraduate and graduate students.</p> <p>Condensed Matter Physics offers many practical career opportunities in both industrial and academic endeavors. Furthermore, condensed matter physics is one of the largest areas of physics, which is highly interdisciplinary to biophysics, chemistry, engineering, and other applied sciences. Through research in condensed matter physics many discoveries have been made that have produced great commercial benefit. Examples include, but are not limited to, high/low temperature superconductors, magnetic data storage, low temperature physics (cryogenic industry), nanotechnology, microelectronics, photovoltaics (solar cells), applications to medical physics such as nuclear magnetic resonance (MRI), and materials science. The successful condensed matter physics program at Fresno State has demonstrated a high rate of hiring in industrial research positions in Silicon Valley and Los Angeles at companies such as Xerox, Oracle, Masushita, Jet Propulsion Lab, and Lockheed Martin. Many students have gone on to Ph.D. programs in Condensed Matter Physics at UC Davis, Purdue, Ohio State, and Rice University.</p> <p>The Department of Physics has an active condensed matter experimental program. Current faculty have been successful in securing over \$610,000 in external funding from NSF and the Research Corporation to support their program. We believe that with the recent retirements of two faculty members in condensed matter physics, at least one new faculty will be required to maintain and strengthen our ongoing efforts. The long-term plan that comprises our vision of the future for the Department of Physics can be accomplished through support of this field.</p> <p><b><u>Justification for hiring an experimental high-energy physics faculty member:</u></b> The physics department’s high energy particle physics program, headed up by Dr. Yongsheng Gao, has built up a successful and high-profile program centered on the ATLAS experiment at the Large Hadron Collider (LHC) of the European Organization for Nuclear Research (CERN). This program has garnered \$2.4 million in National Science Foundation grants. This program has also sent 5-7 students every summer since 2008 to Geneva, Switzerland to work on the ATLAS experiment. Fresno State students were at the LHC when the discovery of the Higgs Boson (the</p>

so-called “God” particle) was announced in July of 2012. The Higgs discovery by the ATLAS and CMS experiments was named by the top-tier journal *Science* as the “Breakthrough of the Year” for 2012, and the 2013 Nobel Prize in Physics was awarded for the theory behind this. Fresno State is the only CSU campus involved in this important discovery. This is also the only research that has won a Nobel Prize that a CSU campus has ever been involved in. In addition to the success in external grants the Fresno State ATLAS program publishes about 100 papers per year in the top tier journals (including *Physical Review Letters*, *Physical Review*, and *Physics Letters*). Dr. Gao is also working to extend the Fresno State ATLAS program into a CSU wide program through starting of the CSU Nuclear and Particle Physics Consortium (NUPAC). Through this consortium Dr. Gao has made research opportunities at the LHC available to not only Fresno State students, but to students from around the CSU – in particular CSU Long Beach, CSU Pomona, CSU San Marcos, CSU Channel Islands, and CSU Sacramento. Also in the past 3 years the ATLAS program has been the largest source of MS projects and theses in the department with 40% of our MS students doing research work in this program. While this is the largest program in the department in terms of grants, publications, student/student research there is only a single faculty member (Dr. Yongsheng Gao) taking care of this program. In contrast our theoretical physics program, condensed matter program, medical physics program and astronomy/planetarium program each have two faculty members. Thus given the student and research load on this program it is crucial that the department hire an additional faculty member since a single faculty member cannot continue to run this highly successful program individually.

The new experimental high-energy physics faculty hire is necessary in order to handle the enormous number of research students that Dr. Gao is currently handling by himself (currently Dr. Gao has 10 research students). The new faculty member would also be able to teach some of the online particle physics courses that are being taught for the consortium. In addition the new hire would start a course in computational physics which is an important area where the physics department currently has a gap in its curriculum. By adding another high energy particle physics faculty the ATLAS program would be positioned to go after more and larger NSF grants, and also help to grow the CSU NUPAC consortium across the CSU.

<p>Meeting Minutes dated 1/26/2016</p>	<p>The Department agreed that at the end of Dr. Katkanant's academic appointment in August 2016, Dr. Katkanant will move into Dr. Bucher's old office and that office will be used by Emeriti while Dr. Ho will move into the current office occupied by Dr. Katkanant.</p>
<p>Meeting Minutes dated 2/16/2016</p>	<p>The current faculty teaching Physics 4A and 4B agreed to the use Smart Physics online homework with the supplement of <i>any</i> textbook.</p>
<p>Meeting Agenda for 2/23/2016</p>	<p>The Final Standards and Action Plan developed with Dr. Andy Hoff was sent to all faculty as part of the agenda to meeting no. 5.</p>
<p>Meeting Minutes dated 3/8/2016</p>	<p>Articulation of Online Classes for Physics 4A, 4B, 4C: The Department agreed NOT to articulate online classes for the above-mentioned courses.</p>
<p>Meeting Minutes dated 5/13/2016</p>	<p><b>Physics 171 and Curriculum Change:</b> The following decisions were made at the department meeting after the discussion:</p> <ul style="list-style-type: none"> <li>• The number of pre-requisites will be reduced for Physics 171 so that this course can be taken in the senior year.</li> <li>• This will <u>not</u> be a GRE preparation course and hence, will be offered as a regular 2 unit class (no front-loading).</li> <li>• Major Field Test (MFT) in Physics is an important tool for the department to assess the quality of the curriculum and all students will be required to take the test sometime during the senior year. How the MFT requirement should be administered was narrowed to two possible options that will be revisited by the faculty in fall 2016. Those two options are:</li> <li>• As part of this Phys 171 course which will be required Or As part of the last required course a student will take (Phys 115 for some and Phys 110 for others depending on the entrance into the program). It would constitute 5-10% of the grade and the student will have the <u>option</u> of enrolling in a recitation course such as Phys 90 to assist in doing well in the MFT.</li> </ul>

<p>Meeting Minutes dated 5/13/2016</p>	<p>The Department agreed to pay for a department copy for the student winning the Outstanding Graduate Thesis.</p> <p style="text-align: center;"><b>This was superseded by the policy decided on 01/13/2017</b></p>
<p>Meeting Minutes dated 5/13/2016</p>	<p>The Department agreed on a <u>new</u> time for department meetings next semester on Tuesdays from 3:30 to 4:30 pm</p>
<p>Meeting Minutes dated 08/30/2016</p>	<p>The Department agreed that if a faculty has 4 or less students, then the faculty could sign the students for a 190 but if there are 5 or more, then the faculty has to offer a 175T class. In addition, each Phys 190 should be accompanied with a summary by the student.</p>
<p>Meeting Minutes dated 09/20/2016</p>	<p>The Department agreed to make Phys 171 elective and have the students take the MFT as part of the syllabus at the end of Phys 115.</p>
<p>Meeting Minutes dated 10/18/2016</p>	<p>The Department agreed to list in the catalog, courses that are upper division and considered as electives and to exclude Phys 190 and Phys 175T which should only be considered as electives by prior approval of the Chair.</p>
<p>Meeting Minutes dated 10/18/2016</p>	<p>The Department agreed to add Math 6 to the list of possible pre-requisites for Phys 2A. The list should say Math 6 or Math 75A or Math 75, etc.</p>
<p>Meeting Minutes dated 11/15/2016</p>	<p>The Department agreed that faculty would have the flexibility to either assign Ms. Perry as the delegate for preparation and approval (which will take more time) or can do the preparation themselves in the new Concur Travel System.</p>

Meeting Minutes dated 11/29/2016

Dr. Huda clarified that the same choice for the Concur Travel system, i.e., delegating Margarita would also be for bizflow documents for meal reimbursements.

New Roadmap prepared by Dr. Ho after the meetings of 5/13/2016, 9/20/2016, 10/18/2016 (see minutes)

**Bachelor of Science (B.S.) in Physics**  
**Outline of Curriculum**

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<p style="text-align: center;"><b>Fall/2<sup>nd</sup> year</b></p> <p>PHYS 4B*+ 4BL* 3 + 1 units          MATH 77*(Calculus III) 4 units          * Programming Course          Electrons of ECE 70 / CSCI 40 3 - 4 units          (Recommended: ECE 70 Computational Programming for Engineers)          GE - C2: Humanities (3 units)          GE - D1: American History (3 units)</p>	<p style="text-align: center;"><b>Spring/2<sup>nd</sup> year</b></p> <p>PHYS 4C* 3 units          PHYS 105A*(Anal. Mech.) 3 units          MATH 81*(Applied Analysis) 3 units          PHYS 170A (Math. Phys.) 3 units          GE - C1: Arts or C2: Humanities (3 units)</p>
<p style="text-align: center;"><b>Fall/3<sup>rd</sup> year</b></p> <p>PHYS 102*(Mod. Phys.) 3 units          PHYS 105B*(Anal. Mech.) 3 units          PHYS 107A*(Intermediate E&amp;M) 3 units          PHYS 135 (M/R/M/R/S) 4 units          or PHYS 180 (Seminar) 1 unit          GE - D2: American Government (3 units)          GE - D3: Social Science (3 units)</p>	<p style="text-align: center;"><b>Spring/3<sup>rd</sup> year</b></p> <p>PHYS 104*(Exp. Tech. in Condensed Matter Phys.) 4 units          PHYS 140*(Thermodynamics) 3 units          PHYS 115*(Q. M.) + M.F.T. 3 units          PHYS 107B (Intermediate E&amp;M) 3 units          GE - IB: Physical Universe and Its Life Forms (3 units)</p>
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\* Total Upper-Division Elective 10 - 11 units Approved by Faculty Meeting  
 † Required 15 non-Phys-Chem-Math GE courses 45 units on 5/13/2016  
 ‡ Courses labeled with \* are the required classes for Physics major. Updated on 11/22/17  
 § Information of various courses, please check on Fresno State online Catalog:  
<http://www.fresnostate.edu/catalog/subjects/physics/physics.html#courses>

Meeting Minutes dated 1/24/2017

The Department voted for Dr. Pei-Chun Ho to serve as the Academic Senator for a three year term.

Meeting Minutes dated 1/31/2017

Graduate Thesis Hardbound Copies: The department would pay for the department hardcopies of all students and the current policy of paying only the top thesis would be defunct and decided upon later.

<p>Meeting Minutes dated 02/07/2017</p>	<ul style="list-style-type: none"> <li>• The Department approved unanimously to keep the pre-requisite of C or better for Phys 4A and Phys 4B</li> <li>• The Department approved by a majority vote of 8-2 to keep the pre-requisite of C or better for Phys 2A</li> <li>• The Department approved unanimously to separate “I” from the DFW list.</li> </ul>
<p>Meeting Minutes dated 02/14/2017</p>	<p>The Department approved the initial response report to be sent to the Dean’s Office regarding the Program Review.</p>
<p>Meeting Minutes dated 02/14/2017</p>	<p>Five Curricular Changes approved by the Department were filed with the College Curriculum Committee. Four pertained to course pre-requisites of C or better for Phys 4A (math prerequisites), for Phys 4B, for Phys 4C, and Phys 2B, and one to a program change proposal stating that all math and physics pre-requisites for the physics major should be completed with a grade of C or better.</p>
<p>Meeting Minutes dated 03/07/2017</p>	<p>The Department agreed on Matthew Metcalf as the Outstanding Undergraduate Student and Olivia Krohn as the Dean’s Medalist nominee.</p>
<p>Meeting Minutes dated 03/14/2017</p>	<p>The Department voted on a version written by Dr. Huda with comments and corrections from all for a new faculty search request.</p>
<p>Meeting Minutes dated 03/14/2017</p>	<p>The Department voted unanimously to have the Graduation Dinner at New City Chinese Restaurant.</p>
<p>Meeting Minutes</p>	<p>The Department voted 6-4 in favor of blackboards (vs. whiteboards) in labs including McLane 258.</p>



<p>dated 03/14/2017</p>	<p>This was superseded by the vote described in the minutes of meeting dated 10/31/2017</p>
<p>Meeting Minutes dated 03/21/2017</p>	<p>The Department voted by majority Lawrence Lechuga as the Outstanding Graduate Student and Patrick McDougall as the University Graduate Medalist Nominee.</p>
<p>Meeting Minutes dated 03/28/2017</p>	<p>The Department voted 7-2 for Dr. Gao to make his proposal to the Deans for resubmission of his grant application with the NSF after his presentation and discussion with the department.</p>
<p>Meeting Minutes dated 03/28/2017</p>	<p>The Department voted by majority to nominate Patrick McDougall for Outstanding Thesis.</p>
<p>Meeting Minutes dated 4/18/2017</p>	<p>The Department agreed to nominate Timothy Evans and Patrick McDougall as Outstanding TAs.</p>
<p>Meeting Minutes dated 5/2/2017</p>	<p>Majority of the faculty signed a document drafted by Dr. Huda with suggestions form others on Rules for Airing Disagreement.</p>

**Ground Rules for Airing Disagreements**

*We endeavor to abide by these mutually agreed upon rules during the department meetings and encourage each other to speak up and point out whenever and wherever violations of these rules are observed.*

1. No outbursts, abusive language, yelling, or derogatory comments that represent personal attacks will be tolerated **even** if they are in response to an interruption.
2. Individuals can express their views without interruption and fear of retaliation. If a new issue needs to be brought up by any individual, it could either be requested prior to the dissemination of the agenda by the Chair or brought up under new business for consideration to be put on the agenda.
3. Issues and not personalities are subject to debate. Unsubstantiated assertion will not influence the vote or outcome.
4. Difference of opinion will be discussed and everyone will be heard even if the issue has to be tabled until the next meeting.

Signatures: \_\_\_\_\_  
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<p>Meeting Minutes dated 5/2/2017</p>	<p>The Department voted by majority that every graduate student who teaches a summer lecture session must have taught one of the Phys 2A, 2B, 4A, 4B labs before.</p>
<p>Meeting Minutes dated 5/2/2017</p>	<p>The Department voted unanimously the final version of the revised document “Physics Funding Priorities” to be distributed to Javier Morales and also put on the department website.</p> <p style="text-align: center;"><b>Physics Funding Priorities Document (Updated on 5/2/2017)</b></p> <p><b>The Department of Physics would like to seek philanthropic funding for the following causes that have been deemed as priorities by a majority of the faculty.</b></p> <ul style="list-style-type: none"> <li>• <b><u>Sponsorship of Student Research (\$15,000 per student per academic year)</u></b></li> </ul> <p>We invite donors to support our student research directly through Physics Student Research Sponsorships. Donors can support one or more students at the undergraduate or graduate level. Current student research opportunities include: Biomedical physics, Condensed Matter physics, Experimental High Energy Particle physics, Observational Astronomy, and Theoretical physics. Sponsorship will enable students to receive monetary compensation for their time spent on research tasks, allowing them to work towards their degree and professional goals instead of working part time off campus for financial support. In addition, the sponsorship of student research will greatly enhance the ability to recruit and attract the best students to our programs. The donors will be recognized in scientific peer-reviewed publications and presentations for their support.</p> <p><u>Undergraduate Student Research Sponsorship</u> \$15k to sponsor an <b>Undergraduate</b> Research Assistantship for one academic year. Goal: up to 10 students funded per year.</p> <p><u>Graduate Student Research Sponsorship</u> \$15k to sponsor a <b>Graduate</b> Research Assistantship for one academic year. Goal: up to 5 students funded per year.</p> <ul style="list-style-type: none"> <li>• <b><u>Graduate Student Tuition and Living Expenses Scholarship - \$300,000</u></b></li> </ul> <p>Graduate Students are financially challenged without a tuition waiver at Fresno State to go through the rigor of the program with outside employment. We would like to create an attractive package to aid the students in their tuition and living expenses. This will be for our top five graduate students and we would like to support the graduate program for at least five years.</p>

- **Outreach to Community (\$80,000)**

Our renowned Outreach program to Fresno and surrounding community covering hundreds of K-12 schools as well as nursing homes and the community at large during parades, television programs such as *Great Day*, *KSEE 24 Sunrise*, and *Central Valley Today* etc. with students demonstrating the physical principles requires continuing operational costs such as the outreach van, demos, trailers, booth at events, student conferences, media equipment, etc. This program directly impacts lives and excites students about physics and STEM in general. The Physics Outreach team, on average, visits over 100 schools per year teaching science in a fun “hands-on”, interactive way where all students and teachers participate in the demonstrations. It currently serves the valley, including the counties of Fresno, Madera, Merced, Mariposa, Stanislaus, Kings, and Tulare.

- **Sierra Remote Observatories and the Downing Planetarium (\$300,000)**

Sierra Remote Observatories are at a superb dark site for astronomical observatories, at 4610' altitude near Shaver Lake. The telescope at this site is operated at Fresno State, 47 miles away, by remote control over the internet. This donation would cover the \$14,000/year membership fees for Fresno State's station at Sierra Remote Observatories.

- **Research Equipment Fund for Condensed Matter Physics Program (\$1 – 2 million)**

Research in Condensed Matter Physics focuses on the superconducting, magnetic, and nano materials. These materials can applied to energy conservation to reduce the rate of depletion of natural resources, to decrease the production of carbon dioxide, and to cut down the usage of environmentally hazardous hydro fluorocarbons, which can preserve the *earth's* ecology. The Department would like to allocate a fund for purchase of state-of-the-art equipment such as X-ray Crystallography system, SEM/TEM (electron scanning/transmission microscopes), SQUID magnetometer, etc., which would allow faculty and students to perform sensitive experiments.

- **ATLAS program at Large Hadron Collider of CERN and CSU Nuclear and Particle Physics Consortium (NUPAC) (from \$500 to \$300,000)**

The physics department has a research program on the ATLAS (A Toroidal LHC Apparatus) experiment of the Large Hadron Collider (LHC) at the European Organization for Nuclear Research (CERN) in Geneva, Switzerland. Fresno State has been the center of CSU NUPAC which consists of 17 campuses. This unique program in the CSU system could greatly benefit from funding for the following items: ATLAS Grid Computing Cluster for CSU (\$300,000), collaboration with Ph.D. institutions in the US, China, and other countries (\$25,000 per Ph.D. student per year), fund to sponsor female US ATLAS physicists stationed at CERN who are mentors of CSU students to give recruiting talks at CSU campuses (\$3000 per speaker), fund to sponsor Fresno State female ATLAS students to give recruiting talks at CSU campuses

	<p>and local high/middle school (~\$500 per visit), and fund to expand and strengthen CSU NUPAC and turn it into an official CSU-wide affinity group with CSU ATLAS and NUPAC as its core (\$5000 per year).</p> <ul style="list-style-type: none"> <li>• <b><u>Endowed Professorship for Enhancement of Programs in the Department (\$1-2 million)</u></b></li> </ul> <p>There are several exciting programs within the department that would really benefit both in terms of course offerings and department profile as well as research opportunities for our students with the hiring of another faculty member. Although a small department, several varied specialties and research programs have a vibrant home in the department, usually under one or two faculty members. Current programs include Biomedical physics, Condensed Matter physics, Experimental High Energy Particle physics (ATLAS), Observational Astronomy, and Theoretical physics.</p> <ul style="list-style-type: none"> <li>• <b><u>Remodeling of McLane Hall (\$10 million)</u></b></li> </ul> <p>The Department has been physically separated in different buildings for many years now. In addition, our labs that serve many students in the College of Sciences and Mathematics as well as College of Engineering are beginning to show their age. It would be great if the department could emerge as a powerful, cohesive, modern, and attractive place to study 21<sup>st</sup> century physics under the roof of a single re-modeled or new building. This building will include a large teacher resource room that would have equipment to check out for teachers in the community as well as physics lessons for all ages and levels of competencies, a large biomedical research lab, a large computational lab, additional conference rooms to teach small classes, a media room where classes could be filmed, a dedicated radioactive storage room, two advanced labs, and an electronics room.</p>
<p>Meeting Minutes dated 5/9/2017</p>	<p>The Department voted on a Search Committee for a new faculty hire. The members of the Committee are: Drs. Muñoz, White, Ho, Gherase, and Zhang.</p>
<p>Meeting Minutes dated 5/9/2017</p>	<p>The Department agreed that : Dr. Singleton will get an electronic code with 16 permits for the exclusive use of the colloquium speakers. Dr. Singleton just needs to send any alumni to Margarita if they wish to attend the colloquium, who will give them the day pass and keep track of who it is given to.</p>

<p>Meeting Minutes dated 09/19/2017</p>	<p>The Department agreed to keep records of the previous program review and rest of the records/files that is older than seven years can be scanned and sent for shredding.</p>
<p>Meeting Minutes dated 10/03/2017</p>	<p>The Department agreed on the revised BS Physics SOAP drafted by Dr. Huda to be sent to Dr. Jordine.</p> <p>The Department agreed on the Print-on-Demand Catalog version corrected by Dr. Huda to be sent to Dr. Fu's Office.</p>
<p>Meeting Minutes dated 10/31/2017</p>	<p>The Department voted 7 to 2 in favor of replacing the blackboard in McL 258 with a whiteboard!</p>
<p>Meeting Minutes dated 11/07/2017</p>	<p>The Department voted 5 to 1 in favor of conditionally admitting an undergraduate for a year if his/her GPA is below 2.5; the condition being that they take the GRE and in one year show that they can get their GPA to be above 2.5 taking the remedial classes.</p>
<p>Meeting Minutes dated 11/21/2017</p>	<p>Dr. Huda informed the department that both the Program Review Committee and the Undergraduate Academic Program Review Subcommittee have recommended that Phys 190 cannot be used as a recitation anymore. If the department does not wish to follow the recommendations, the department can let the Dean know next semester since he is assuming that the recommendation will be followed.</p> <p>The Department voted that from Spring 2018, the new Interim Chair must summarize the minutes of the meeting which should be approved at the next meeting by the faculty while storing the audio recording of the meeting as a record.</p>