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MINUTES OF THE UNIVERSITY SENATE
December 4, 2001

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Chairperson Nowell called the December 4, 2001 meeting of the University Senate to order at 3:20 p.m. in the Alumni Auditorium of the Eberly College of Business.

The following Senators were **excused** from the meeting: K. Barton, R. Camp, B. Carter, C. Dugan, J. Eck, T. Eisenhower, J. Fisher, P. Groomes, A. Kaniasty, N. Kolb, R. Luckey, V. Mancuso, W. Nunn, L. Pettit, M. Piwinsky, E. Receski, R. Riesenman, T. Rittenberger, P. Scott, H. Sitler, J. Solak, K. Weiner.

The following Senators (students) were **excused** from the meeting: K. Bransford, K. Stillwell.

The following Senators were **absent** from the meeting: S. Barker, D. Chambers, T. Connelly, J. Ellerbach, W. Forbes, D. Hulings, H. Hull, D. Jenette, S. Krevel, C. Lake, D. Luo, R. Martin, F. Nee, C. Orchard, K. Polansky, M. Redvay, E. Ruffner, M. Vella.

The following Senators (students) were **absent** from the meeting: H. Anderson, M. Beasecker, A. Berol, D. Brunner, C. Dziados, T. Ellis, V. Holder, R. Howard, A. Joynes. R.S. Lee, M. Longley, K. Moderelli, K.J. Norris, M. Petrowski, N. Rank, J. Roth, M. Savidge, A. Thomas, J. Walsh, L. Zack.

The minutes of the November 6, 2001 meeting were **ACCEPTED**.

Agenda items for the December 4, 2001 meeting were **ACCEPTED.**

REPORTS AND ANNOUNCEMENTS

PRESIDENT'S REPORT (Dr. Pettit)

Due to the visit to IUP by the SSHE Chancellor, Dr. Pettit was excused and had no report.

PROVOST'S REPORT (Dr. Staszkiewicz)

I don't know about you, but this has been a long semester for me! I am relieved that the Union's vote concerning "no confidence" is over and I want the Senate to know that I am prepared to work with it as well as with APSCUF, the students and other administrators to learn from this experience and to incorporate that knowledge as we move forward. The President and I will be meeting with Drs. Nowell and Heilman next week, Chairperson Nowell has identified the members of the committee President Pettit has asked for, and I have had several discussions within the Council of Deans regarding strategies for broader input in the decision making process. It is now time to move beyond personal considerations and to work collaboratively to restore a sense of collective ownership in our university.

In terms of current issues that are important to share with the Senate today, I'd like to focus on a recent directive from the System Office. In many different meetings you have heard about the use of Performance Indicators (PI's) and their impact on us. The Board of Governors have identified over twenty PI's for which they collect data for each of the 14 System universities. Some of these PI's are used in the allocation of funds. For this next year, the System has indicated that it will add two new PI's that are to be selected or determined by individual campuses. One of these PI's is to be related to "academic quality" and the second is to be "mission specific." In the case of the mission specific performance indicator, the Chancellor has asked that each university select one indicator from a list of four options. These options include: the number of degrees awarded; the number of accredited programs; the cost per FTE student; and the number of faculty with terminal degrees. There are more details than I can share today regarding these options but since we just received them last Thursday, we haven't really had the opportunity to sort through all the implications yet. We are still awaiting further instructions from the Office of the Chancellor regarding the second PI, academic quality. I expect to have more information when I return from Harrisburg this Friday. In any event, IUP will need to make a recommendation to the Office of the Chancellor by mid-January. It is my intention to distribute materials to the Senate and to APSCUF this week, to host two open meetings next week, to compile the results of those open meetings and to distribute that summary widely to get further input before making a final recommendation to the President. Once the President makes his decision regarding the selection of these two PI's, I would then involve Senate and APSCUF in putting together the actual plan. Unfortunately, all this will be taking place between now and mid-January unless timelines are changed at the System level.

I am confident that the events of the past few weeks will be used constructively as we find creative ways through which we can all work together effectively. I look forward to that journey.

CHAIRPERSON'S REPORT (Dr. Nowell)

First, I would like to report on the motion that was passed at our last meeting to display the American flag at our meetings. Dean Camp, who is responsible for this auditorium requested the acquisition of a flag for that purpose. I have been informed that the flag has been ordered and should arrive in about two weeks.

I have a couple of remarks as a follow-up to the no-confidence vote that was recently held. As Chair of this Senate, I have an obligation to all of the constituents of this body. Obviously I have used this "bully pulpit" to give my strong opinion about the violation of shared governance, especially as it relates to the role of the Senate. During this process, I attempted to share objectively the problems that have occurred as I see them. However, I do not wish to be perceived as being in opposition to a significant portion of the Senate. Whatever occurs as a result of the recent vote, I will continue to work with all constituencies represented in this body.

In that spirit, I will be meeting this coming Monday with the President, the Provost, and the President of local APSCUF to begin conversations as to what steps we need to take to

rectify the situation that led to the recent events. Additionally, I have appointed a committee as requested by the President to examine issues of governance. The members are the following:

> Richard Nowell, Chair, University Senate (Chairperson)
> Alan Andrews, Chair, Senate Academic Committee
> Jerry Buriok, Chair, Math; Member, Senate Rules Committee
> Katie Gresch, Student Congress, former student senator
> Larry Pettit, President
> Mark Staszkiewicz, Provost
> Carleen Zoni, Dean, Health and Human Services

We will be meeting in the near future to begin setting goals for that committee. I appreciate your continued confidence in me and the support you have provided.

Now I would like to take a moment to speak about one of our members. For many years she has served the University and the community of Indiana in a variety of roles. One of her many roles has been in the Senate. In addition to official duties, such as many years as chair of the Academic Committee, she has often served as a voice of reason on this floor -- a strong voice, I might add, not only in its recognizable volume, but also from her extensive knowledge of the history of this Senate and her dedication to that for which this Senate stands.

Today is her last Senate meeting, and I want to take this opportunity to recognize her. Dr. Diane Duntley, this Senate and this University owe you much gratitude for your contributions and leadership, and I want to express my own personal thanks for your counsel through the years. May your retirement be a joyous one. Members of the Senate, may we recognize Senator Diane Duntley.

VICE CHAIRPERSON'S REPORT (Senator Coulson)

 My report for today for Student Congress is fairly brief:

1. Student Congress has been sponsoring a letter writing campaign to Harrisburg to lobby for more State System School funding.
2. Student Congress has held two votes against Student Trustee Cameron Hollingshead, one of no confidence and one for his resignation which both passed.
3. Student Congress is sponsoring Donuts and Coffee in the Stapleton Library next Tuesday, Wednesday, and Thursday from 9 p.m. to Midnight for students during finals week.

Lastly on a personal note: Recent events have taken place here, which seemingly divided the school. I believe if we are going to make this place better for all involved and a better university, we must set aside our personal differences. We may have faults with each other but we can all work for the common good of everyone. We are all here to make a difference for the improvement of IUP and I believe it is time we start working together to do so. Chairperson Nowell has taken this stance in his report and I believe we all should follow his lead.

OLD BUSINESS

There was no old business to discuss.

STANDING COMMITTEE REPORTS

RULES COMMITTEE   (Chairperson Radell)

See Appendix A, page 8 for this committee report

**UNIVERSITY-WIDE UNDERGRADUATE (Chairpersons Sechrist and Numan)
CURRICULUM COMMITTEE**

See Appendix B, page 12 for this committee report.

GRADUATE COMMITTEE   (Chairpersons Kondo and Chambers)

See Appendix C, page 26, for this committee report.

LIBRARY/EDUCATIONAL SERVICES COMMITTEE (Chairperson Pagnucci)

This committee last met on November 27, 2001 and reported that various items will be
brought to the senate during the spring, 2002 semester.

NONCREDIT COMMITTEE   (Chairperson Barton)

See Appendix D, page 38 for this committee report.

RESEARCH COMMITTEE   (Chairperson Guth)

See Appendix E, page 39 for the grants, which were awarded and the committee report. .

STUDENT AFFAIRS COMMITTEE   (Chairperson Hall)

This committee last met on November 27, 2001. Michelle Fryling attending, discussing
Vice Chair Coulson's remarks at the November senate meeting. The committee will next
meet on February 12, 2002.

**UNIVERSITY DEVELOPMENT AND FINANCE COMMITTEE (Chairperson
Domaracki)**

This committee will next meet on December 11, 2001 at 3:15 p.m. in 257 Davis Hall.

ACADEMIC COMMITTEE   (Chairperson Andrew)

See Appendix F, page   , for the information which was provided by the committee to the

Senate.

AWARDS COMMITTEE (Chairperson Jackson)

Nominations will close on Monday, December 10, 2001. The committee will then meet on February 5, 2002 for discussion and examination of nominations, with final decisions completed on February 22, 2002.

NEW BUSINESS

Diane Duntley's "Senate farewell"

I ask the Senate to indulge me in a few moments of reflection and comment as I complete my Senate tenure of about 25 years. During all of this time I have also served on the Academic Committee. It should surprise no one that I have a great deal of affection and regard for University Senate. I have some general suggestions and then I would like to reflect on things done and things left undone.

First a couple of suggestions: There is interest in a more efficient Senate. I have passed on to Senators Radell and Nowell the suggestion that holding Senate actions for approval of the minutes before they go forward may have outlived its usefulness. The delay was built in at a time when Senate agenda was typed "from scratch" and then the minutes were re-typed "from scratch." There was opportunity for errors such as omitting a line or transposing a course number; with technology and file transfer, there may not be reason to hold for approval of minutes. I suggest that you look at that process and timeline.

A second point: Senate needs to define its vision and its role in academic life. This university is at a juncture now that calls for a proactive stance. Senate must have more of a unified vision of itself than a collection of committees that report items for information and for action. I think that Senate was strongest when it was under attack in the Worthen years and when there was a strong Executive Committee that focused the direction. It has been some time since there was a regular executive committee of Senate leadership. I hope you look at some version of an expanded leadership team. Another aspect of Senate role: Senators need to see their role as an advocate for the well being of the whole university. And especially those Senators elected "at-large" need to remember that they are not just another vote for their department's narrow interests but have a special responsibility to the university at large.

Now to look at "Things done": Many policies have been drafted and crafted and amended and redesigned and I've been happy to play a role in that. I'd like to recall a day in Senate some 10 years ago when there was a heated exchange between two relatively new senators about the intent of a policy. After listening, I raised my hand, was recognized and defined the intent. "How do you know the intent?' asked one member. Cold quiet came over the hall. Many knew the answer; I quietly said, "I wrote the policy." "Oh. Well." "Any further discussion?" asked the chair.

Some highlights:

1. The Grade Appeal process was created and revised.
2. The Academic Violations policy was created and revised as the Academic Integrity policy.   And others:
3. attendance policy (permissive legislation) and guidelines for anticipated absence for university representation
4. individual course and total withdrawal policies,
5. improvement policies: D/F repeat, cancelled semester, Fresh Start
6. course syllabi policy
7. grade policies: L, I, mid-term D/F
8. Academic Standards Policy (at least 3 major revisions)
The goal of all these policies has been the improvement of university academic life.

But in the larger context there is much to be done: Senate is a key place to foster a vision of the academic life.   Consider the following for a "to do" list:

- We have an attendance policy,

  but we don't have an ethos or culture of class attendance.

- We have an Academic Integrity policy that defines process for what to do when the negatives have occurred,

  but we have not implemented the proactive part of the policy that would provide for true understanding by faculty and students of the nature of academic integrity.

- We have an Academic Standards Policy,

  but we don't have a comprehensive proactive program of academic support for students. This fall 20% of our new freshmen had reading scores below 11th grade reading level. And we wait for probation to address Academic Recovery, with much to be done to bring supports for recovery.

We need a vision of the role of the Senate in building a strong academic life. So when Senate is bogged down in some piece of parliamentary maneuvering, would someone please ask "**How does this build the vision?**"

There is another question with which I would leave you.   I raised it in the final column of the fall issue of Advising Information and Support. And I hope it will be raised in Senate every now and then. This is the question: **"What would we do if we really loved students?"**

So I won't be here in Senate. But don't be surprised if I go on the web and read the agenda and minutes. Big Sister will be watching!

And you will be with me. Never before have I felt the need for intentionality in my concern for this university and this senate. So I have appointed myself to an ad hoc committee – not a committee under the view of the Rules Committee. I intend to make a regular place in my prayer life for the strength and wisdom of this university and this Senate. And you can't vote yourselves off my prayer list.

And so I have a present for the chair of Senate. It is a hand-me-down from my office. I hope that it will be passed from Senate chair to Senate chair.   With all my best wishes.

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Framed print with Reinhold Niebuhr's well-known quotation:

> Lord, grant me the
> SERENITY to accept the things I cannot change, the
> COURAGE to change the things I can, and the
> WISDOM to know the difference.

It should be noted that upon completion of her farewell, all senators stood to applaud and acknowledge Dr. Duntley. All senators wish her the best in retirement!!!

Senator Cory Davis made a motion for a No Confidence vote pertaining to Mr. Cameron Hollingshead as the student representative to the Council of Trustees. After extensive discussion regarding the appropriateness of such an action, the motion was tabled.

ADJOURNMENT

With no further business, the meeting was adjourned at 5:25 p.m.

Respectfully Submitted,

Jonathan B. Smith, Ed.D.
Secretary-IUP Senate

Because the following response from the Administration was received too late to be included in the printed Rules Committee Report distributed to the Senate, Senator Radell read the response at the November 6 Senate meeting.

Dear Will,

I write to provide the information requested at the Senate concerning the decision to close the University School. Under separate cover, you have already received an EMAIL that I sent to all faculty and administrators. You may want to refer to that email (attached) for some clarification as needed. The actual Senate resolution (taken from the unapproved minutes of the 10/2/01 Senate) states:

> It was moved by Senator Radell and seconded by Senator Bransford to request Senators Pettit and Stazkiewicz to bring to the senate at the next meeting documents and evidence as to how and when the decision was made to close the University School, and the legal justification/legal counsel's rationale for not bringing the decision to the University Senate. Senator Duntley added a friendly amendment, which was seconded and passed, that the information provided by Drs. Pettit and Staszkiewicz should be sent directly to the Rules Committee. The motion passed.

1. How and when was the decision made to close the University School?

We are now in the second year of the original three-year plan to reduce university expenditures by approximately eight million dollars. That plan (Performance and Outcome Plan - POP) covers the periods 2000-01 through 2002-03. At the end of year one (2000-01), IUP was to submit a report that extend the POP report through 2003-04. In preparation for the revised plan, the President's Staff met on June 5, 2001 in a retreat to assess the status of the plan and to discuss what would be needed to extend the plan for another year. Information from the System Office was sketchy as to what would be required and the outcome of the first year's plan had not yet been documented. During the retreat, the President's Staff did discuss areas within the university that might be considered "high cost" and we also discussed strategies to increase revenues. The University School did surface at that time as a "high cost" program. No further action was taken at that time with regard to the University School, as we were still expecting the University budget to be reasonably solvent under the assumption of a three to four percent increase in State funding to the System. The first indication we had about the status of the State funding reduction came on June 20, 2001. In an email from Budget Director, Mrs. Cyndy Strittmatter dated June 20, 2001, she states:

----- Original Message -----
From: "Cyndy Strittmatter" <clstritt@grove.iup.edu>
To: "Larry Pettit" <Larry_pettit@grove.iup.edu>
Cc: "Pete Goldsmith" <goldsmth@grove.iup.edu>; "Dr. Mark J. Staszkiewicz"
<mjstat@grove.iup.edu>; "C. Edward Receski" <EReceski@grove.iup.edu>; "Dr.
Joan M. Fisher" <jfisher@grove.iup.edu>; "RUTH RIESENMAN"
<RIESEN@grove.iup.edu>; "Rhonda Luckey" <RLUCKEY@grove.iup.edu>
Sent: Wednesday, June 20, 2001 3:46 PM
Subject: Conference Call - 2001/2002 Budget

The information that I received today regarding the 2001/2002 Budget was not favorable. I caution that this is still not final. We are hoping to have final information later this evening or tomorrow. The Governor's proposal in February included a 4% base increase for the State System of Higher Education. This has been reduced to only 1/2%. At 4%, IUP was only expecting to receive 2.8%, an increase of $1.7M. At 1/2% we will basically receive 0. This is a huge hit to us. I don't know what the possibility is of us having to take a reduction in our base. Mark could better answer this from an Oversight Committee perspective. There was no special line item funding in the Governor's February proposal. This has been changed to $17.283M with funding to be directed for the new administrative system and performance funding. The Chancellor felt that this would be the funds available to the new Chancellor for his/her initiatives and wasn't certain that only the new system and performance funding would be covered. The increases from the Feb. budget for McKeever, Affirmative Action, and Recruitment of Disadvantaged were lowered. Apparently Penn State, Pitt, and Temple didn't do much better. The State budget situation is not looking favorable for 01/02. Several surrounding states are in deficit situations and are making reductions. What about tuition? Not sure if Board will pass before the July meeting. Focus is on selection of a new Chancellor. To compensate for loss in appropriations, we would need a $327 or 8.6% tuition increase. Not likely to happen. We may not want the Board to pass tuition too early and may want them to have enough time to evaluate impact of this large change in appropriations. I wish that I had better news. The Chancellor suggested that the President's may need to touch base again after the budget is finalized to determine how to react. He feels this is a very serious issue.

Cyndy

As I reported at the University Senate and in my communication to the faculty, the severity of the budget shortfall was not known until the decision was made by the legislature to decrease support to the State System. After we received notification concerning the budget shortfall, the University Trustees met in executive session on July 30, 2001. No official action was taken at that meeting since it was an executive session. The Trustees were briefed concerning the status of the budget and some possible strategies to bring that budget into balance. The final recommendation to close the University School was then submitted to the Council of Trustees at their September 14, 2001 meeting. Prior to that meeting, I shared the intent to bring this to the Trustees with Dr. Heilman in her role as President of IUP APSCUF. That took place during my meeting with her in August. In my Senate address for September I referred to the

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newspaper article concerning the University School. The University School was also placed on the agenda for the September Meet and Discuss session with APSCUF.

2. Legal counsel justification/rationale for not bringing the decision to the University Senate?

I am not sure what to share with the Senate in response to this item. When the Senate Rules Committee suggested we had violated the Senate Constitution and Act 188, we sought the opinion of our legal. We received a communication from the System's Chief Legal Counsel, Mr. Robert Mulle, in which he confirmed that our actions were proper and consistent with our authority under Act 188. Act 188, specifically, Section 20-2010-A,(3), authorizes the institution president "To develop and implement policies and procedures for the administration of the institution."

If you require more information, please let me know.

For Senate Action: **PASSED**

The Rules Committee discussed and passed the proposed amendment on October 30, 2001. The first reading to the Senate was at the November, 2001 meeting. The proposed amendment will be decided by a vote in the Senate on December 4, 2001. The Rules Committee proposes the following amendment to the Senate Bylaws **(in bold italics)**:

Current Wording:

   a. Administration:

   1.   *One Dean elected by and from the membership of the Senate.*

   2.   *Two additional Administrative members elected by and from the Senate.*
   …………………………………………………………………………………………

Recommended Wording:

   a. Administration:

   1.   **One Dean elected by and from the membership of the Senate.**

   2.   ***One Administrative member elected by and from the Senate.***

   3.   ***One Administrative member appointed by the President.***
…………………………………………………………………………………………………
………

Rationale for Change (from the Awards Committee):

The Senate Awards Committee must work closely with the Office of the President to facilitate the awards process. Some examples of this include: informing the award recipients, generating the small stipend for winners, deciding on when/where recipients will be recognized, and creating the biographical sketches of the winners that are printed in University publications. Currently Ruth Riesenman, Executive Assistant to the President, serves on the Awards Committee. However, the current Senate Bylaws do not guarantee that she, or someone from the President's Office, be on the Committee. The members of the Committee met on 9/25/01 and voted unanimously in the form of a motion to make this change. It should be noted that this change does not expand the number of individuals that serve on the Committee. In addition, it does not expand the representation of administrative members on the Committee at the expense of other designated members (i.e., faculty or students).

APPENDIX B
University-Wide Undergraduate Curriculum Committee
Co-Chairpersons Sechrist and Numan

For Information:
1. Honors College Committee Report:
   ECON 121 Principles of Economics I has been approved for Honors credit.

2. Liberal Studies Committee Report:
   Approved Type I Professor Commitment status for Dr. Yolanda Scott, Criminology

3. The following courses have been approved by the UWUCC to be offered in a distance education format:
   BTST 321 Business and Interpersonal Communication
   MGMT 300 Human Resource Management
   MGMT 310 Principles of Management
   MGMT 330 Productions and Operations Management
   MGMT 495 Business Policy
   MKTG 350 International Business
   MKTG 351 Self Marketing

4. Clarification of Procedures Used When Proposals Come from Multiple Departments:

   1. On the Cover Page that accompanies the proposal: The unit (college or group of departments) proposing the course/program, not the department of the person writing the proposal, should be listed under "Department of Contact."

   2. All department curriculum committees included in the proposal must participate in the approval process, not just the proposer's curriculum committee and not just the department chairs. Therefore, letters/emails of support (or acknowledgement in the case of nonsupport) from all of the chairs and department curriculum committees participating are required attachments.

   3. If the course being proposed is intended to be interdisciplinary, include in the rationale section procedures that will be implemented to ensure a true interdisciplinary approach to the course.

   4. Although it is not a concern of the UWUCC, the committee suggests that the unit submitting the proposal develop a rotation for offering the courses (including the summer) so that all departments involved have an equal chance of participating. This is not part of the curriculum approval, but would constitute a measure within the unit to ensure cooperation among all departments involved.

For Senate Action:
1. Department of Computer Science   PASSED
   A. Change in Catalog Description:

Current Description:
The programs in Computer Science at IUP leading to a B.S. or B.A. degree are designed primarily to prepare graduates for productive work in highly computer-dependent areas of business, government, and industry. In recent years, majors graduating from the program have attained their first jobs in business applications, programming and systems analysis, computer software development, scientific and applied mathematical programming, and other computer-related areas and to graduate school.

In a rapidly developing field such as Computer Science, it is important that the graduate's education be broad and fundamental so that new trends can more readily be followed. Our goal is to balance fundamentality and breadth with sufficient supervised practice so that our graduates are productive at the time they graduate but ready and willing to change with the field.

Most applied computer scientists work in cooperation with professionals trained in other areas and with managers. Hence, the ability to work and communicate with others of different educational backgrounds is an important characteristic. To that end, we encourage Computer Science majors to take a strong minor (or area concentration) in a second area of interest. Some students may wish to double major. Majors in other disciplines at IUP are also welcome to take Computer Science courses for which they are qualified or a Computer Science minor.

Students majoring in Computer Science should set their goals beyond simple programming and should be preparing:
   1. to program well, both in design and implementation phases, and document what they have programmed
   2. to analyze real-world problems in preparation for program design and implementation
   3. to manage activities that are strongly computer dependent
   4. to improve the tools that programmers and systems analysts use, i.e., to develop
        a. better machine systems
        b. better software systems
        c. better languages for communicating with machines
        d. better methods for solving intractable problems
   5. to teach about computers at college or high school level
   6. to advance the fundamental theory of digital information processors

Proposed Description:
The programs in Computer Science at IUP leading to a B.S. or B.A. degree are designed primarily to prepare graduates for productive work in highly computer-dependent areas of business, government, and industry. In recent years, majors graduating from the program have attained their first jobs in business applications, programming and systems analysis, computer software development, scientific and applied mathematical programming, and other computer-related areas and some have gone on to graduate school.

In a rapidly developing field such as Computer Science, it is important that the graduate's education be broad and fundamental so that new trends can more readily be followed. Our goal is to balance the fundamentals and breadth of the discipline with sufficient supervised practice so that our graduates are productive at the time they graduate and are also ready and willing to change with the field.

Most applied computer scientists work in cooperation with professionals trained in other areas and with managers. Hence, the ability to work and communicate with others of different educational backgrounds is an important characteristic. To that end, we encourage Computer Science majors to take a strong minor (or area concentration) in a second area of interest. Some students may wish to double major. Majors in other disciplines at IUP are also welcome to take Computer Science courses for which they are qualified or to complete a Computer Science minor.

Students majoring in Computer Science should set their goals beyond simple programming and should be preparing to:
1. program well, both in design and implementation phases, and document what they have programmed
2. analyze real-world problems in preparation for program design and implementation
3. manage activities that are strongly computer dependent
4. improve the tools that programmers and systems analysts use, i.e., to develop
   a. better machine systems
   b. better software systems
   c. better languages for communicating with machines
   d. better methods for solving intractable problems
5. advance the fundamental theory of digital information processors
6. remain current in a rapidly changing discipline.

B. New Courses

1. **COSC 210 Object Oriented and GUI Programming**   3c-0l-3sh   **PASSED**
   Prerequisite: COSC110
   An in-depth introduction to the Object Oriented Programming (OOP) paradigm. The focus will be on designing, implementing, and using objects. We will cover function and operator overloading, templates, inheritance and polymorphism. This course will also include an introduction to Graphical User Interface (GUI) design and programming.

Rationale: Since its introduction in the early 1980's, the Object Oriented Programming (OOP) paradigm has grown to become an industry standard. Addition of this course will ensure that our curriculum includes both procedural and object oriented programming. An introduction to the Graphical User Interface (GUI) paradigm is included to further reinforce the OOP concepts. This course will be a prerequisite to COSC 310, Data Structures and Algorithms.

2. **COSC 415   Internet Architecture and Programming**   3c-0l-3sh   **PASSED**
   Prerequisites: COSC 304 and COSC 310 or instructor's approval.
   Corequisite: COSC 341
   This course covers the fundamental architecture of Internet systems and the process of developing computer applications running on the Internet in general and on the world wide-Web in particular. Students will first gain basic understanding of the TCP/IP protocols and the client/server technology. Methods, languages and tools for developing distributed applications on the Internet will be evaluated. Programming projects developing distributed applications, using a representative suite of development tools and languages, are integral part of this course.

Rationale: This course is designed to enhance the Computer Science curriculum with an advanced Web-based development component, and is to be taken by junior or senior level Computer Science majors or students with equivalent training in Computer Science. Given the high demand for computer programmers who are capable of developing Internet-based software applications, this course will provide the Computer Science majors an opportunity to learn the state-of-the-art technology of Web development architecture. Most courses titled "Internet Programming" focus on a single computer language such as Java or Perl and do not cover the conceptual framework of Internet architecture and the rigorous process of Web-based software development. Nor do they cover advanced topics such as database connectivity or component-based software development. An advanced course covering both the fundamental Internet architecture and the software development methodologies is needed.

C. Course Revisions
1. Course Revision and Credit Change: **PASSED**
Current Catalog Description:
COSC 220 Applied Computer Programming   3c-0l-3sh
Prerequisite: COSC 110 or equivalent.
Structured programming principles and techniques, as implemented through the ANS COBOL language; program design using top-down techniques; program and project documentation; introduction to sequential file algorithms.

Proposed Catalog Description:
COSC 220 Applied Computer Programming   4c-0l-4sh
Prerequisite: COSC 110 or equivalent.
Structured programming principles and techniques, as implemented through the ANSI COBOL language; program design using top-down techniques; program and project documentation; introduction to sequential and random file algorithms and integrated file systems.

Rationale: Due to the increase of topics and subject areas in the computing discipline, we have found it necessary to combine most of the contents of COSC 220 and COSC 315 to enable us address the important topics that students need without extending the total number of credits required. COSC 315 will thus become inactive. If it should be reactivated, it will have to be revised.

2. Course Revision and Name Change: **PASSED**
Current Catalog Description:
COSC 310 Data Structures 3c-0l-3sh
Prerequisite: COSC 110
Basic concepts of data; storage systems and structures; lists, arrays, strings, hashing techniques; searching and sorting techniques; data structures in programming languages; string processing. Programming in an object-oriented language.

Proposed Catalog Description:
Data Structures and Algorithms 3c-0l-3sh
Prerequisite: COSC 210
Fundamental concepts of data design and implementation, data abstraction, data structures, arrays, linked-lists, stacks, queues, recursion, trees, graphs, and hashing. The course will also cover sorting algorithms, divide and conquer techniques, greedy methods, and analysis of algorithms. The object-oriented paradigm will be employed in this course using an object-oriented language.

Rationale: Since the department does not offer a separate course on Algorithm Analysis and Design, it is now necessary to revise and change the course contents of COSC 310 and rename it as *Data Structures and Algorithms*. Concepts of algorithms are essential for our students, who want to be software developers or programmers. So that students have the proper background knowledge they will now first to take COSC 110 Programming and Problem Solving in C++, then COSC 215 Object-Oriented and GUI Programming, and finally COSC 310 Data Structures and Algorithms.

3. Course Revision **PASSED**
Current Catalog Description:
COSC 319 Software Engineering Concepts 3c-0l-3sh
Prerequisites: COSC 315 or permission of the instructor
Software engineering concepts include the collection of tools, procedures, methodologies and accumulated knowledge about the development and maintenance of software based systems. This course is strongly suggested for any student planning to take an internship in Computer Science. After an overview of the phases of the software lifecycle, current methodologies, tools and techniques being applied to each phase will be discussed in depth with localized exercises given to reinforce learning of concepts.

Proposed Catalog Description:
COSC 319 Software Engineering Concepts 3c-0l-3sh
Prerequisites: COSC 220 and 310 or permission of the instructor
Software engineering concepts include the collection of tools, procedures, methodologies and accumulated knowledge about the development and maintenance of software based systems. This course is strongly suggested for any student planning to take an internship

in Computer Science. After an overview of the phases of the software lifecycle, current methodologies, tools and techniques being applied to each phase will be discussed in depth with localized exercises given to reinforce learning of concepts.

Rationale: The original prerequisite for COSC 319 was meant to assure that students had experienced enough software development to engender a sufficient level of programming maturity. COSC 315, which was a second programming course using COBOL as the programming language provided such maturity. Since COSC 315 is being eliminated from the Computer Science curriculum, another set of prerequisites has been identified to assure an acceptable level of programming maturity. Since at least 1/3 of the material originally in COSC 315 has migrated to COSC 220, it makes sense to include COSC 220 in the new prerequisites for COSC 319. However, since COSC 220 did not inherit all of the subject matter from COSC 315 the addition of COSC 310 will provide both the data structures and the additional programming maturity.

4. Number Change and Course Revision: **PASSED**
Current Catalog Description:
COSC 441 Data Base Management   3c-0l-3sh
Prerequisites: COSC 315
A review of database concepts. Detailed study of database management approaches. Comparative study of commercially available database management systems. Project on the locally available database systems.

Proposed Catalog Description:
COSC 341 Introduction to Database Management Systems   3c-0l-3sh
Prerequisites: COSC 220 (or equivalent) and 310 or permission of instructor
Study of data base concepts. Detailed study of information concepts and the realization of those concepts using the relational data model. Practical experience gained designing and constructing data models and using SQL to interface to both multi-user DBMS packages and to desktop DBMS packages.

Rationale: This is a component in a series of changes necessitated by the ascent of data base technology to primary importance as the technology for the organization, storage and retrieval of large collections of information. Prior to this ascent integrated file systems constructed using indexed sequential access methods served this purpose and that technology was the subject of the COSC 315 course. The faculty in consultation with our Corporate Advisory Board formulated a change in the curriculum. COSC 315 will become inactive. Some of the subject matter will migrate to the COSC 220 course other material will migrate to the revised COSC 441 which will be renumbered as COSC 341. The movement of the existing COSC 441 course from the senior year to the sophomore/junior year necessitates the number change. The material, which is being moved deals with hardware device characteristics, the role of the operating system (specifically the file system) in data handling and the details of the indexed sequential access methods. Movement of the COSC 441 course to earlier in the student's coursework is required because of the need for computer science interns to work with data base technology. All of the interns had to work with databases but only about 50% of the interns had taken the course prior to the internship experience. Further, knowledge

of databases was recommended for the COSC 319 Software Engineering Concepts and the COSC 320 Software Engineering Practice courses.

D. Course Number Change   **PASSED**

Current Number and Title
COSC 444 Productivity Tools and 4th Generation Languages

Proposed Number and Title
COSC 344 Productivity Tools and 4th Generation Languages

Rationale: The number of this course is being changed to indicate that it is to be taken in the student's Junior year. This course is in the list of prerequisites for the capstone course COSC 415 Internet Architecture and Programming.

E. Course Deletion   **PASSED**
Delete the inactive **COSC 201 Programming the Computer**   2 sh

Rationale: The Computer Science Department discontinued to teach the course over 10 years ago and therefore wishes to delete the course.

F. Program Revisions   **PASSED**

Rationale: The field of Computer Science continues to grow by leaps and bounds. Increasing the number of credits required of our majors by a single credit will allow us to include many of the new technologies recently introduced into the discipline. Rationales for the other changes are included above.

Current Program		Proposed Program	
Bachelor of Arts - Computer Science		**Bachelor of Arts - Computer Science**	
Liberal Studies : As outlined in Liberal Studies section	**55-58**	Liberal Studies: As outlined in Liberal Studies section	**55-58**
with the following specifications:		with the following specifications:	
Mathematics: MATH 123 (or MATH 121-122)		**Mathematics:** MATH 123 (or MATH 121 and 122)	
Liberal Studies Electives: MATH 216 (or MATH 214 or 217),		**Liberal Studies Electives:** MATH 216 (or MATH 214 or 217),	
no courses with COSC prefix		no courses with COSC prefix	
Major:	**35**	**Major:**	**36**
Required Courses:		**Required Courses:**	
COSC 105 Fundamentals of Computer Science	3sh	COSC 105 Fundamentals of Computer Science	3sh
COSC 110 Problem Solving and Structured Programming	3sh	COSC 110 Problem Solving and Structured Programming	3sh
COSC 220 Applied Computer Programming	3sh	COSC 210 Object Oriented and GUI Programming	3sh
COSC 300 Assembly Language Programming	3sh	COSC 220 Applied Computer Programming	4sh
COSC 310 Data Structures	3sh	COSC 300 Assembly Language Programming	3sh
COSC 315 Large File Organization and Access	3sh	COSC 310 Data Structures and Algorithms	3sh
COSC 380 Seminar on the Computer Profession	1sh	COSC 341 Data Base Management	3sh
COSC 480 Seminar on Technical Topics	1sh	COSC 380 Seminar on the Computer Profession	1sh
Controlled Electives:		COSC 480 Seminar on Technical Topics	1sh
Select 9sh from: (1)		**Controlled Electives:**	
COSC 250 Introduction to Numerical Methods	3sh	Select 6sh from: (1)	
COSC 304 Interactive Internet Programming with Java	3sh	COSC 250 Introduction to Numerical Methods	3sh
COSC 319 Software Engineering Concepts	3sh	COSC 304 Interactive Internet Programming with Java	3sh
COSC 320 Software Engineering Practice	3sh	COSC 319 Software Engineering Concepts	3sh
COSC 345 Data Communications	3sh	COSC 320 Software Engineering Practice	3sh
COSC/IFMG 354 Testing and Controlling LANs	3sh	COSC 344 Productivity Tools and 4th Generation Languages	3sh
COSC 355 Computer Graphics	3sh	COSC 345 Data Communications	3sh
COSC 360 IBM Job Control Language	1sh	COSC/IFMG 354 Testing and Controlling LANs	3sh
		COSC 355 Computer Graphics	

COSC 362 Unix Systems	3sh
COSC 481 Special Topics in Computer Science	
(only sections approved for majors)	1-4sh
COSC 482 Independent Study	1-4sh
COSC 493 Internship in Computer Science	2sh(2)
IFMG 455 Data Warehousing and Mining	3sh

Upper-level Electives by Categories	6sh(3)

Computer Architecture: COSC 410
Theory of Languages: COSC 419, 420, 424, 460
Systems Programming: COSC 430, 432
Numerical Methods: COSC 450, 451
Artificial Intelligence: COSC 405
Data Base Management: COSC 441, 444

Other Requirements:	**6-22**
Additional Writing:	
ENGL 322 Technical Writing	3sh
Foreign Language Intermediate Level	0-6sh (4)
Additional Mathematics:	3-13sh (5)
MATH 123 Calculus I for Physics, Chemistry and Mathematics (MATH 121 and 122 may be substituted)	
MATH 216 Probability and Statistics for Natural Sciences (MATH 363 and 364, MATH 214 and 417, or MATH 217 and 417 may be substituted)	
MATH 219 Discrete Mathematics	

Free Electives:

Total Degree Requirements:

(1)   Select at least 9sh from the list of controlled electives and/or the list of upper-level electives. Note: Only 4sh of COSC 493 may be counted toward these 9sh.

(2)   COSC 493 may be selected in either the second semester of the junior year or the first semester of the senior year. If COSC 493 is selected and approved, COSC 380 should be taken in the immediately preceding semester.

(3)   Select at least two additional courses, from at least two different categories, from the list of upper-level electives.

(4)   Foreign Language intermediate-level courses are counted as Liberal Studies electives.

(5)   Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The three-credit minimum applies to students who take MATH 123 and 216. The thirteen-credit maximum applies to students who take the MATH 121 and 122 calculus options and the MATH 363-364 statistics option.

3sh	
COSC 360 IBM Job Control Language	1sh
COSC 362 Unix Systems	3sh
COSC 481 Special Topics in Computer Science	
(only sections approved for majors)	1-4sh
COSC 482 Independent Study	1-4sh
COSC 493 Internship in Computer Science	12sh(2)
IFMG 455 Data Warehousing and Mining	3sh
Upper-level Electives by Categories	6sh(3)

Computer Architecture: COSC 410
Theory of Languages: COSC 419, 420, 424, 460
Systems Programming: COSC 430, 432
Numerical Methods: COSC 450, 451
Artificial Intelligence: COSC 405
Data Base Management: COSC 415

Other Requirements:	**6-22**
Additional Writing:	
ENGL 322 Technical Writing	3sh
Foreign Language Intermediate Level	0-6sh (4)
Additional Mathematics:	3-13sh (5)
MATH 123 Calculus I for Physics, Chemistry and Mathematics (MATH 121 and 122 may be substituted)	
MATH 216 Probability and Statistics for Natural Sciences (MATH 363 and 364, MATH 214 and 417, or MATH 217 and 417 may be substituted)	
MATH 219 Discrete Mathematics	

Free Electives:	**8-27**

Total Degree Requirements:	**124**

(1)   Select at least 6sh from the list of controlled electives and/or the list of upper-level electives. Note: Only 4sh of COSC 493 may be counted toward these 6sh**.**

(2)   COSC 493 may be selected in either the second semester of the junior year or the first semester of the senior year. If COSC 493 is selected and approved, COSC 380 should be taken in the immediately preceding semester.

(3)   Select at least two additional courses, from at least two different categories, from the list of upper-level electives.

(4)   Foreign Language intermediate-level courses are counted as Liberal Studies electives.

(5)   Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The three-credit minimum applies to students who take MATH 123 and 216. The thirteen-credit maximum applies to students who take the MATH 121and 122 calculus options and the MATH 363-364 statistics option.

Current Program
Bachelor of Science -Applied Computer Science Track

Liberal Studies: As outlined in Liberal Studies section	**54-58**

with the following specifications:
Mathematics: MATH 123 (or MATH 121-122)
Liberal Studies Electives: MATH 216 (or MATH 214 or 217), no courses with COSC prefix

Major:	**38**
Required Courses:	
COSC 105 Fundamentals of Computer Science	3sh
COSC 110 Problem Solving and Structured Programming	3sh
COSC 220 Applied Computer Programming	3sh
COSC 300 Assembly Language Programming	3sh
COSC 310 Data Structures	3sh

Proposed Program
Bachelor of Science- Applied Computer Science Track

Liberal Studies: As outlined in Liberal Studies section	**54-58**

with the following specifications:
Mathematics: MATH 123 (or MATH 121 and 122)
Liberal Studies Electives: MATH 216 (or MATH 214 or 217), no courses with COSC prefix

Major:	**39**
Required Courses:	
COSC 105 Fundamentals of Computer Science	3sh
COSC 110 Problem Solving and Structured Programming	3sh
COSC 210 Object Oriented and GUI Programming	3sh
COSC 220 Applied Computer Programming	4sh
COSC 300 Assembly Language Programming	3sh

COSC 315 Large File Organization and Access 3sh
COSC 319 Software Engineering Concepts 3sh
COSC 380 Seminar on the Computer Profession 1sh
COSC 441 Data Base Management 3sh
COSC 480 Seminar on Technical Topics 1sh
Select one of the following two courses:
COSC 320   Software Engineering Practice 3sh(1)
COSC 493   Internship in Computer Science 12sh(2)

Controlled Electives:
Select 6sh(3)
COSC 250 Introduction to Numerical Methods 3sh
COSC 304 Interactive Internet Programming with Java 3sh
COSC 345 Data Communications 3sh
COSC/IFMG 354 Testing and Controlling LANs 3sh
COSC 355 Computer Graphics 3sh
COSC 360 IBM Job Control Language 1sh
COSC 362 Unix Systems 3sh
COSC 481 Special Topics in Computer Science
          (only sections approved for majors) 1-4sh
COSC 482 Independent Study 1-4sh
IFMG 455 Data Warehousing and Mining 3sh
Upper Level Electives by Categories: Select 3sh(4)
Computer Architecture: COSC 410
Data Base Management: COSC 444
Theory of Languages: COSC 419, 420, 424, 460
Systems Programming: COSC 430, 432
Numerical Methods: COSC 450, 451
Artificial Intelligence: COSC 405

Other Requirements: **6-22**
Additional Writing:
ENGL 322   Technical Writing 3sh
Foreign Language Intermediate Level 0-6sh (5)
Additional Mathematics: 3-13sh (6)
MATH 123 Calculus I for Physics, Chemistry and
          Mathematics (MATH 121 and 122 may
          be substituted)
MATH216 Probability and Statistics for Natural
          Sciences (MATH 363 and 364, MATH 214 and
          417, or MATH 217 and 417 may be substituted)
MATH 219 Discrete Mathematics
Complete a minor from one of the following areas: **6-18sh**
a) From any department in the College of
    Natural Sciences and Mathematics 6-18sh
b) From designated Business courses 18sh
c) From designated Economics courses 15sh
d) From designated Geography courses 15sh
e) From designated Communications Media courses 18sh

Free Electives: **0-20**

Total Degree Requirements: **124**

(1)   Credit for both COSC 320 Software Engineering Practice and
        COSC 493 Internship in Computer Science may be counted
        toward the degree, but only one will be counted toward the
        major requirements.
(2)   COSC 493 may be selected in either the second semester of
        the junior year or the first semester of the senior year. If
        COSC 493 is selected and approved, COSC 380 may be taken
        in the immediately preceding semester.
(3)   Select at least 6sh from the list of controlled electives and/or
        the list of upper-level electives.
(4)   Select at least one additional course from the list of
        upper-level electives.
(5)   Foreign Language intermediate-level courses are counted as
        Liberal Studies electives.
(6)   Any of the Mathematics options satisfy the Learning Skill
        requirement, and one course may be counted as a Liberal

COSC 310 Data Structures and Algorithms 3sh
COSC 319 Software Engineering Concepts 3sh
COSC 341 Data Base Management 3sh
COSC 380 Seminar on the Computer Profession 1sh
COSC 480 Seminar on Technical Topics 1sh
Select one of the following two courses: (1)
COSC 304 Interactive Internet Programming with Java 3sh
COSC 344 Productivity Tools and 4th Generation Languages 3sh
Select one of the following two courses: (2)
COSC 320   Software Engineering Practice 3sh
COSC 493   Internship in Computer Science 12sh(3)
Controlled Electives:
Select 3sh(4)
COSC 250 Introduction to Numerical Methods 3sh
COSC 345 Data Communications 3sh
COSC/IFMG 354 Testing and Controlling LANs 3sh
COSC 355 Computer Graphics 3sh
COSC 360 IBM Job Control Language 1sh
COSC 362 Unix Systems 3sh
COSC 481 Special Topics in Computer Science
          (only sections approved for majors) 1-4sh
COSC 482 Independent Study 1-4sh
IFMG 455 Data Warehousing and Mining 3sh
Upper Level Electives by Categories: Select 3sh(5)
Computer Architecture: COSC 410
Data Base Management: COSC 415
Theory of Languages: COSC 419, 420, 424, 460
Systems Programming: COSC 430, 432
Numerical Methods: COSC 450, 451
Artificial Intelligence: COSC 405

Other Requirements: **6-22**
Additional Writing:
ENGL 322   Technical Writing 3sh
Foreign Language Intermediate Level 0-6sh (6)
Additional Mathematics: 3-13sh (7)
MATH 123 Calculus I for Physics, Chemistry and
          Mathematics (MATH 121 and 122 may
          be substituted)
MATH 216 Probability and Statistics for Natural
          Sciences (MATH 363 and 364, MATH 214 and
          417, or MATH 217 and 417 may be substituted)
MATH 219   Discrete Mathematics
Complete a minor from one of the following areas: **6-18sh**
a) From any department in the College of
    Natural Sciences and Mathematics 6-18sh
b) From designated Business courses 18sh
c) From designated Economics courses 15sh
d) From designated Geography courses 15sh
e) From designated Communications Media courses 18sh

Free Electives: **0-19**

Total Degree Requirements: **124**

(1)   Credit for both COSC 304 Interactive Internet Programming
        with Java and COSC 344 Productivity Tools and 4th
        Generation Languages may be counted toward the degree, but
        only one will be counted toward the major requirements.
(2)   Credit for both COSC 320 Software Engineering Practice and
        COSC 493 Internship in Computer Science may be counted
        toward the degree, but only one will be counted toward the
        major requirements.
(3)   COSC 493 may be selected in either the second semester of
        the junior year or the first semester of the senior year. If
        COSC 493 is selected and approved, COSC 380 may be taken
        in the immediately preceding semester.
(4)   Select at least 3sh from the list of controlled electives and/or
        the list of upper-level electives.
(5)   Select at least one additional course from the list of
        upper-level electives.

Studies elective. The three-credit minimum applies to students who take MATH 123 and 216. The thirteen-credit maximum applies to students who take the MATH 121-122 calculus option and the MATH 363-364 statistics option.

(6)   Foreign Language intermediate-level courses are counted as Liberal Studies electives.

(7)   Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The three-credit minimum applies to students who take MATH 123 and 216. The thirteen-credit maximum applies to students who take the MATH 121-122 calculus option and the MATH 363-364 statistics option.

Current Program

Bachelor of Science-Languages and Systems Track

Liberal Studies: As outlined in Liberal Studies Requirements   **54-58**
with the following specifications:
Mathematics: MATH 123 (or MATH 121-122)
Liberal Studies Electives: MATH 124, no course with COSC prefix

Major:

Required Courses:	41
COSC 105 Fundamentals of Computer Science	3sh
COSC 110 Problem Solving and Structured Programming	3sh
COSC 220 Applied Computer Programming	3sh
COSC 300 Assembly Language Programming	3sh
COSC 310 Data Structures	3sh
COSC 315 Large File Organization and Access	3sh
COSC 319 Software Engineering Concepts	3sh
COSC 380 Seminar on the Computer Profession	1sh
COSC 410 Processor Architecture and Micro Programming	3sh
COSC 420 Modern Programming Languages	3sh
COSC 432 Introduction to Operating Systems	3sh
COSC 480 Seminar on Technical Topics	1sh

Controlled Electives: Select 9sh(1)

COSC 250 Introduction to Numerical Methods	3sh
COSC 304 Interactive Internet Programming with Java	3sh
COSC 320 Software Engineering Practice	3sh(2)
COSC 345 Data Communications	3sh
COSC/IFMG 354 Testing and Controlling LANs	3sh
COSC 355 Computer Graphics	3sh
COSC 360 IBM Job Control Language	1sh
COSC 362 Unix Systems	3sh
COSC 405 Artificial Intelligence	3sh
COSC 419 Software Development and Ada	3sh
COSC 424 Compiler Construction	3sh
COSC 430 Introduction to Systems Programming	3sh
COSC 441 Data Base Management	3sh
COSC 444 Productivity Tools and 4th Generation Languages	3sh
COSC 450 Applied Numerical Methods	3sh
COSC 451 Numerical Methods for Supercomputers	3sh
COSC 460 Theory of Computation	3sh
COSC 481 Special Topics in Computer Science (as approved for majors)	1-4sh
COSC 482 Independent Study	1-4sh
COSC 493 Internship in Computer Science	12sh(3)
IFMG 455 Data Warehousing & Mining	3sh

Other Requirements:	13-25
Additional writing:	
ENGL 322 Technical Writing	3sh
Foreign Language Intermediate Level	0-6sh (4)
Mathematics: A minor in mathematics	10-16sh (5)

including the following courses:
MATH 123   Calculus I for Physics, Chemistry and Mathematics (MATH 121 and 122 may be substituted)
MATH 124   Calculus II for Physics, Chemistry, and Mathematics
MATH 171   Introduction to Linear Algebra

Proposed Program

Bachelor of Science- Languages and Systems Track

Liberal Studies: As outlined in Liberal Studies section   **54-58**
with the following specifications:
Mathematics: MATH 123 (or MATH 121-122)
Liberal Studies Electives: MATH 124, no course with COSC prefix

Major:

Required Courses:	42
COSC 105 Fundamentals of Computer Science	3sh
COSC 110 Problem Solving and Structured Programming	3sh
COSC 210 Object Oriented and GUI Programming	3sh
COSC 220 Applied Computer Programming	4sh
COSC 300 Assembly Language Programming	3sh
COSC 310 Data Structures and Algorithms	3sh
COSC 319 Software Engineering Concepts	3sh
COSC 341 Data Base Management	3sh
COSC 380 Seminar on the Computer Profession	1sh
COSC 410 Processor Architecture and Micro Programming	3sh
COSC 420 Modern Programming Languages	3sh
COSC 432 Introduction to Operating Systems	3sh
COSC 480 Seminar on Technical Topics	1sh

Controlled Electives: Select 6sh(1)

COSC 250 Introduction to Numerical Methods	3sh
COSC 304 Interactive Internet Programming with Java	3sh(2)
COSC 320 Software Engineering Practice	3sh(3)
COSC 344 Productivity Tools and 4th Generation Languages	3sh(2)
COSC 345 Data Communications	3sh
COSC/IFMG 354 Testing and Controlling LANs	3sh
COSC 355 Computer Graphics	3sh
COSC 360 IBM Job Control Language	1sh
COSC 362 Unix Systems	3sh
COSC 405 Artificial Intelligence	3sh
COSC 415 Internet Architecture and Programming	3sh
COSC 419 Software Development and Ada	3sh
COSC 424 Compiler Construction	3sh
COSC 430 Introduction to Systems Programming	3sh
COSC 450 Applied Numerical Methods	3sh
COSC 451 Numerical Methods for Supercomputers	3sh
COSC 460 Theory of Computation	3sh
COSC 481 Special Topics in Computer Science (as approved for majors)	1-4sh
COSC 482 Independent Study	1-4sh
COSC493 Internship in Computer Science	12sh(4)
IFMG 455 Data Warehousing and Mining	3sh

Other Requirements:	13-25
Additional writing:	
ENGL 322 Technical Writing	3sh
Foreign Language Intermediate Level	0-6sh (5)
Mathematics: A minor in mathematics	10-16sh (6)

including the following courses
MATH 123   Calculus I for Physics, Chemistry, and Mathematics (MATH 121 and 122 may be substituted)
MATH 124   Calculus II for Physics, Chemistry, and Mathematics
MATH 171   Introduction to Linear Algebra

MATH 216 Probability and Statistics for Natural Sciences (MATH 363 and 364 may be substituted)	MATH 216 Probability and Statistics for Natural Sciences (MATH 363 and 364 may be substituted)
MATH 219 Discrete Mathematics	MATH 219 Discrete Mathematics

Free Electives:	**0-16**		**Free Electives:**	**0-15**
Total Degree Requirements:	**124**		**Total Degree Requirements:**	**124**

(1) Select at least 9sh from the list of controlled electives. Note: Only 4sh of COSC 493 may be counted toward these 9sh.

(2) Credit for both COSC 320 Software Engineering Practice and COSC 493 Internship in Computer Science may be counted toward the degree, but only one will be counted toward the major requirements.

(3) COSC 493 may be selected in either the second semester of the junior year or the first semester of the senior year. If COSC 493 is selected and approved, COSC 380 may be taken in the immediately preceding semester.

(4) Foreign Language intermediate-level courses are counted as Liberal Studies electives.

(5) Credits for MATH123 and 124 are counted in Liberal Studies.

(1) Select at least 6sh from the list of controlled electives. Note: Only 4sh of COSC 493 may be counted toward these 6sh.

(2) Credit for both COSC 304 Interactive Internet Programming with Java and COSC 344 Productivity Tools and 4th Generation Languages may be counted toward the degree, but only one will be counted toward the major requirements.

(3) Credit for both COSC 320 Software Engineering Practice and COSC 493 Internship in Computer Science may be counted toward the degree, but only one will be counted toward the major requirements.

(4) COSC 493 may be selected in either the second semester of the junior year or the first semester of the senior year. If COSC 493 is selected and approved, COSC 380 may be taken in the immediately preceding semester.

(5) Foreign Language intermediate-level courses are counted as Liberal Studies electives.

(6) Credits for MATH 123 and 124 are counted in Liberal Studies.

2. Department of Finance –New Course   PASSED

FIN 360 Insurance and Risk Management   3c-0l-3sh
Prerequisites: FIN 310, 355

This course covers the nature of risk, the application of the risk management process to business risk management problems, and the essentials of insurance contracts and insurance markets. Appropriate methods of risk control and risk financing are discussed. The primary focus is on accidental losses resulting from situations involving pure risks, although financial risk management techniques for dealing with speculative risks are introduced.

Rationale: Virtually all business activities involve the assumption of risk. The process of identifying an analyzing the potential impact of such risks, and the ability to manage the risks at a reasonable cost, are crucial to the success of any organization. Risk is a very broad term and our students are exposed to certain aspects of risk, such as investment risk or interest rate risk in our finance classes. A comprehensive and systematic approach for dealing with risk provides a valuable skill that students can call upon in their future roles as employees, small business owners, or corporate managers. Risk management requires knowledge, imagination, and critical thinking, and this course will help develop these attributes in our students.

This course is designed for students who have completed FIN 310 Finance I and who have Junior standing. This course is not intended as a Liberal Studies course.

3. Department of Psychology

    A. New Course   **PASSED**

PSYC 359 Sensation and Perception   3c-2l-4sh
Prerequisite: PSYC 290
Introduces the biological and psychological processes that determine our perceptions and their relationships to physical properties of the environment. Laboratory work provides the opportunity to explore lecture and textbook topics first-hand, and to collect and analyze psychophysical data.

Rationale: Sensation and Perception are two basic psychological processes. A course devoted to these processes is not presently a part of our undergraduate curriculum although other basic processes are covered e.g. learning, cognition. The course will fill a gap in the present undergraduate curriculum. It will meet a distribution requirement for majors. All majors must choose one course in Group E. PSYC 359 will be added to this group, The Biological Bases of Behavior, reflecting the approach to the topic described in the syllabus of record.

    B. Program Revision   **PASSED**

Rationale: The removal of PSYC 340, 352 is the result of these courses being placed on the inactive list. Course descriptions for these courses do not appear in the catalogue. The addition of the new course, PSYC 359 Sensation and Perception, to Area E: Biological Bases of Behavior gives the students a wider range of choices and gives the department greater flexibility in meeting students' needs in this area.

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Current Program

Bachelor of Arts – Psychology

Liberal Studies: As outlined in Liberal Studies section   **54-55**
with the following specifications:
Mathematics: MATH 217
Natural Science: BIOL 103-104 recommended
Social Science: PSYC 101
Liberal Studies Electives: BTED/COSC/IFMG 101,
no courses with PSYC prefix

Major:		**34-39**
Required Courses:		
PSYC 290	Research Design and Analysis I	4sh
PSYC 291	Research Design and Analysis II	4sh

Controlled Electives:
A minimum of one course from each of these six core areas: (1)
A. Developmental Psychology: PSYC 310, 311, 312, 315   3-4sh(2)
B. Individual Differences: PSYC 320, 321, 325   3-4sh
C. Social/Environmental: PSYC 330, 331, 335   3-4sh(3)
D. Cognition/Learning: PSYC 340, 341, 342, 345   3-4sh(4)
E. Biological Bases of Behavior: PSYC 350, 352, 355, 356   3-4sh(5)
F. Metatheoretical Perspectives in Psychology:
  PSYC 410, 411   3sh
Other PSYC electives beyond PSYC 101   6-8sh

Other Requirements:	**15-21**
Foreign Language Intermediate Level (2)	0-6sh(6)
Minor/concentration:	15sh

Free Electives:	**9-21**

Total Degree Requirements:	**124**

(1) At least two must be content-based laboratory courses.
(2) Credit toward the major will be given for only one of PSYC 310, 311, or 315.
(3) Credit toward the major will be given for only one of PSYC 330 or 335.
(4) Credit toward the major will be given for only one of PSYC 342 or 345.
(5) Credit toward the major will be given for only one of PSYC 350 or 356.
(6) Intermediate-level Foreign Language may be included in Liberal Studies electives.

Bachelor of Arts – Psychology/Applied Psychology Track

Liberal Studies: As outlined in Liberal Studies Section   **54-55**
With the following specifications:
Mathematics: MATH 217
Natural Science: BIOL 103-104 recommended
Social Science: PSYC 101, ECON 121
Liberal Studies Electives: BTED/COSC/IFMG 101,
no courses with PSYC prefix.

Major:		**38-41**
Required Courses:		
PSYC 290	Research Design and Analysis I	4sh
PSYC 291	Research Design and Analysis II	4sh
PSYC 421	Psychology of Work	3sh
PSYC 425	Experimental Organizational Psychology	4sh
PSYC 493	Psychology Practicum	3sh(1)

Controlled Electives:
A minimum of one course from each of these six core areas: (2)
A. Developmental Psychology: PSYC 310, 311, 312, 315   3-4sh(3)
B. Individual Differences: PSYC 320, 321, 325   3-4sh
C. Social/Environmental: PSYC 330, 331, 335   3-4sh(4)

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Proposed Program

Bachelor of Arts – Psychology

Liberal Studies: As outlined in Liberal Studies section   **54-55**
with the following specifications:
Mathematics: MATH 217
Natural Science: BIOL 103-104 recommended
Social Science: PSYC 101
Liberal Studies Electives: BTED/COSC/IFMG 101,
no courses with PSYC prefix

Major:		**34-39**
Required Courses:		
PSYC 290	Research Design and Analysis I	4sh
PSYC 291	Research Design and Analysis II	4sh

Controlled Electives:
A minimum of one course from each of these six core areas: (1)
A. Developmental Psychology: PSYC 310, 311, 312, 315   3-4sh(2)
B. Individual Differences: PSYC 320, 321, 325   3-4sh
C. Social/Environmental: PSYC 330, 331, 335   3-4sh(3)
D. Cognition/Learning: PSYC 341, 342, 345   3-4sh(4)
E. Biological Bases of Behavior: PSYC 350, 352, 355, 356,359 3-4sh(5)
F. Metatheoretical Perspectives in Psychology: PSYC 410, 411   3sh
Other PSYC electives beyond PSYC 101   6-8sh

Other Requirements:	**15-21**
Foreign Language Intermediate Level (2)	0-6sh(6)
Minor/concentration:	15sh

Free Electives:	**9-21**

Total Degree Requirements:	**124**

(1) At least two must be content-based laboratory courses.
(2) Credit toward the major will be given for only one of PSYC 310, 311, or 315.
(3) Credit toward the major will be given for only one of PSYC 330 or 335.
(4) Credit toward the major will be given for only one of PSYC 342 or 345.
(5) Credit toward the major will be given for only one of PSYC 350 or 356.
(6) Intermediate-level Foreign Language may be included in Liberal Studies electives.

Bachelor of Arts – Psychology/Applied Psychology Track

Liberal Studies: As outlined in Liberal Studies Section   **54-55**
With the following specifications:
Mathematics: MATH 217
Natural Science: BIOL 103-104 recommended
Social Science: PSYC 101, ECON 121
Liberal Studies Electives: BTED/COSC/IFMG 101,
no courses with PSYC prefix.

Major:		**38-41**
Required Courses:		
PSYC 290	Research Design and Analysis I	4sh
PSYC 291	Research Design and Analysis II	4sh
PSYC 421	Psychology of Work	3sh
PSYC 425	Experimental Organizational Psychology	4sh
PSYC 493	Psychology Practicum	3sh(1)

Controlled Electives:
A minimum of one course from each of these six core areas: (2)
A. Developmental Psychology: PSYC 310, 311, 312, 315   3-4sh(3)
B. Individual Differences: PSYC 320, 321, 325   3-4sh
C. Social/Environmental: PSYC 330, 331, 335   3-4sh(4)

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D. Cognition/Learning: PSYC 340, 341, 342, 345   3-4sh(5)
E. Biological Bases of Behavior: PSYC 350, 352, 355, 356   3-4sh(6)
F. Metatheoretical Perspectives in Psychology: PSYC 410, 411   3sh

Other Requirements: **15-21**
Outside Concentration:

ECON 122	Principles of Economics II	3sh
ECON 330	Labor Economics	3sh
ILR 480	Principles and Practices of Collective Bargaining	3sh
Two courses as approved by advisor		6sh(7)
Foreign Language Intermediate Level		0-6sh(8)

Free Electives: **7-17**

Total Degree Requirements: **124**

(1) Department recommends at least 6sh credits of PSYC 493.
(2) At least two must be content-based laboratory courses.
(3) Credit toward the major will be given for only one of PSYC 310, 311 or 315.
(4) Credit toward the major will be given for only one of PSYC 330 or 335.
(5) Credit toward the major will be given for only one of PSYC 342 or 345.
(6) Credit toward the major will be given for only one of PSYC 350 or 356
(7) Department highly recommends PSYC 424 and recommends one course from business or another applied area.
(8) Intermediate-level Foreign Language may be included in Liberal Studies electives.

OLD BUSINESS:

FOR ACTION

1. Policy Revision:

Policy on Workshops and Special Credits:
Current Policy
The Graduate Program approved in each specific department constitutes a rationally structured and well-defined body of information and techniques deemed appropriate to the discipline. For that reason, the individual master's degree candidate may submit for credit for his/her degree no more than six (6) semester hours of workshop and other special-credit offerings approved by the department offering the degree. Doctoral candidates may submit (a further) six (6) semester hours of such work beyond the master's or its equivalent if approved by the degree-granting department. Should the workshop(s) or special credit offering(s) later become a catalog-listed course which is part of the degree program, while the student is still working toward his/her degree, the student may request of the department a retroactive reclassification of credits so earned and upon approval may again submit up to the maximum of such reclassified credits workshop or special-offering credit as initially stipulated above.

Revised Policy
The Graduate Program approved in each specific department constitutes a rationally structured and well-defined body of information and techniques deemed appropriate to the discipline. For that reason, the individual master's degree candidate may submit for credit for his degree no more than six (6) semester hours of workshop and other special-credit offerings approved by the department offering the degree. Doctoral candidates may submit (a further) six (6) semester hours of such work beyond the master's or its equivalent if approved by the degree-granting department. Should the workshop(s) or special credit offering(s) later become a catalog-listed course which is part of the degree program, while the student is still working toward his/her degree, the student may request of the department a retroactive reclassification of credits so earned and upon approval may again submit up to the maximum of such reclassified credits workshop or special-credit offerings as initially stipulated above. Special-credit offerings are defined as those credits earned through Independent Study, Individualized Instruction, Special Topics, workshops, or any combination therein.

Rationale: The current policy governing workshop and other special-offering credits was passed by the University Senate on May 8, 1979. The proposed revision adds the final sentence to the end of the original policy for clarification.

NEW BUSINESS:

FOR ACTION

1. VARIABILITY IN PROGRAM DELIVERY   Passed: 72/13 w 17 Abstain
A Proposed Partnership Between Indiana University of Pennsylvania and East
Stroudsburg University

IUP and ESU Partnership
IUP and East Stroudsburg will follow similar procedures in admitting students,
selecting faculty, forming the dissertation committee, applying for degree
candidacy, completing research topic approval forms, developing an IRB proposal,
and completing the comprehensive examination, and approving the dissertation.
The IUP Graduate Dean is given a list of all East Stroudsburg doctoral students
who successfully pass the candidacy exam and the comprehensive examination.

To insure that the programs on each campus are similar, instructors on both
campuses agree about what textbooks are appropriate and the syllabus for the
course on both the IUP and East Stroudsburg Campus will be similar or identical.
About two months prior to the beginning of each semester, IUP and ESU faculty
will discuss the course, course requirements, and textbooks. We require the same
or similar assignments and both faculty will either communicate via the phone or
video uplink throughout the semester. IUP faculty will have a one-credit AWE for
sharing their course syllabus and maintaining communications with the East
Stroudsburg faculty member. Since we offer only 6 course across an entire year,
the one-credit AWE is not a problem for our department. Since our faculty teach
undergraduate courses and graduate courses, a faculty member who receives a one-
credit AWE is assigned 3 student teachers rather than 5 student teachers during
one of the semesters..

This cooperative effort requires less than a twelve-hour commitment and seems to
be within contractual guidelines. This one-credit AWE has been perceived as
acceptable compensation with faculty here at IUP. Each course will be evaluated
according to APSCUF contractual guidelines on both campuses.

East Stroudsburg students will follow the same procedures for candidacy and
comprehensive examinations as IUP students. For example, during the spring term
of their first year, all students on both campuses must complete their written
candidacy examination. The examination is evaluated by the doctoral coordinator
or by the faculty who teach courses in the Administration and Leadership Program.
The Graduate Dean is then sent a list of names of those who pass the written
candidacy examination. East Stroudsburg doctoral candidates who successfully
pass the candidacy examination are then listed with both the East Stroudsburg
Graduate Dean and IUP's Graduate Dean.

When East Stroudsburg students are ready to present their dissertation proposals,
they will follow all the procedures required of students on this campus. They will
complete a research topic approval form that is signed by all members of the

committee. The research topic approval form will be sent to the East Stroudsburg Graduate Dean and then to the IUP Associate Dean for Research for final approval. A member of the IUP faculty will co-chair the dissertation with an East Stroudsburg faculty member, and all East Stroudsburg students will complete an IRB following East Stroudsburg University's guidelines, and approving the dissertation.   At this time, we expect that IUP faculty will co-chair 3 additional dissertations per year.

East Stroudsburg students will receive an IUP doctoral degree at the East Stroudsburg Campus. IUP's president or his designee will confer the degree.

The East Stroudsburg course offerings parallel IUP's 60-credit hour Administration and Leadership Program. Here is a side-by-side comparison: (Please note that IUP prefixes differ because many of the courses originate from different programs. Thus we have such prefixes as ALS, CURR, EDAD, EDUC, and ILR. All courses in this proposed partnership at East Stroudsburg begin with the prefix PSED.)

Graduation Requirements: All courses are three credits with the exception of the internship (6 credits) and the dissertation (9 credits).

IUP Doctoral Program	East Stroudsburg Doctoral Program
ALS 701 Leadership Theories	PSED 701 Leadership Theories
CURR 710 Advanced Topics in Human Development and Learning	PSED 710 Advanced Topics in Human Development and Learning
CURR 725 Critical Analysis of Issues and Innovation and Innovations	PSED 725 Critical Analysis of Issues
CURR 720 Doctoral Seminar in Research	PSED 720 Doctoral Seminar in Research
ALS 783 Analysis of Qualitative Data in Leadership Studies	PSED 783 Analysis of Qualitative Data in Leadership Studies
EDAD 660 School Finance	PSED 660 School Finance
ALS 702 Leadership: A Case Study Approach Approach	PSED 702 Leadership: A Case Study
EDUC 658 School Law and Negotiations	PSED 658 School Law and Negotiations
ALS 782 Research Instrument Design	PSED 782 Research Instrument Design
ILR 651 Conflict Resolution	PSED 651 Conflict Resolution
EDUC 650 School and Community	PSED 650 School and Community
ALS 703 Leadership: Applied Practice	PSED 703 Leadership: Applied Practice
CURR 705 Curriculum Evaluation	PSED 705 Curriculum Evaluation
CURR 730 Analysis of Effective Instruction Instruction	PSED 730 Analysis of Effective
EDUC 681 Selected Topics in Ed.	PSED 681 Selected Topics in Ed.
ALS 798 Internship (6 credits)	PSED 798 Internship (6 credits)
ALS 950 Dissertation (9 credits)	PSED 950 Dissertation (9 credits)
Total 60 hours	**Total 60 hours**

Method of Delivery

a. Faculty: All faculty who teach graduate classes in the East Stroudsburg Administration and Leadership Program must meet the same criteria as faculty who teach in the Administration and Leadership program at IUP. First, faculty at East Stroudsburg are approved by East Stroudsburg's Graduate Committee. The East Stroudsburg doctoral coordinator then sends the approved faculty's vita to IUP for approval. The Professional Studies Faculty and department chair must approve all East Stroudsburg Faculty prior to the start of classes. Upon approval, the name and references are sent to the Dean of the College of Education for his approval. Upon his approval, the faculty's name and resume are sent to the Graduate Dean for final approval according to the guidelines established by the Graduate Committee of the Senate.

b. Facilities/Location: All classes are taught at East Stroudsburg University.

c. Learning Resources/Equipment: East Stroudsburg has more than adequate resources regarding computer equipment, on-line searches, and adequate library resources. In addition, students can and have used IUP's on-line Library Resources. Within the last three years, our students have been able to complete extensive research via a host of web sites through our library as well as numerous libraries on-line. Our ability to borrow texts through inter-library loan has dramatically improved over the past several years.

The Graduate Committee asked that we address the "inequality in access" regarding use of the IUP library data base. We have not experienced any problems regarding East Stroudsburg student access to the IUP library data base. All East Stroudsburg students have access to the IUP library data base thanks to the help of the IUP library staff and administration and the Gradate Dean. East Stroudsburg faculty do not have access to IUP's library, however, this has not presented any problems.

d. Course Schedule: Classes at East Stroudsburg follow the same schedule as classes here at IUP. All classes meet on Friday from 12:00 noon to 7:00 p.m. and from 9:00a.m. to 4:00 p.m. on Saturday. Classes meet approximately every three weeks. I have enclosed a copy of our 2002-2005 tentative schedule of classes throughout the next three years. Our Special Topics EDAD 681 will be offered during year three. This course is constructed around State Certification standards as well as new developments in Administration and Leadership Studies.

The Graduate Committee asked us to identify who owned the ESU courses. East Stroudsburg owns their courses. The ESU Administration and Leadership courses are similar or identical to the IUP Administration and Leadership Courses. Through this partnership agreement, ESU agreed to use the same or similar texts and to follow the same or similar IUP syllabus.

The IUP doctoral coordinator will make several presentations at the East Stroudsburg Winter Retreat.

The Graduate Associate Dean, in conjunction with the registrar, developed a procedure for recording ESU student grades onto an IUP transcript. The East Stroudsburg courses will be credited to an official IUP transcript at the completion of the doctoral candidate's program. When doctoral candidates complete their dissertation, they will receive a doctoral degree in Administration and Leadership Studies from IUP.

e. Outcomes assessment: All classes at IUP and East Stroudsburg are evaluated using the guidelines established in the Collective Bargaining Agreement approved by APSCUF. The doctoral coordinator at IUP and East Stroudsburg meet 3 times a year with the Program Advisory Committee to address concerns related to the program. The advisory committee consists of 4 doctoral students, the college dean, two faculty members, and the doctoral coordinator.

f. Statement of Compliance: This program complies with Collective Bargaining Agreements, Meet and Discuss Agreements, SSHE, IUP mission statements, and the Graduate Curriculum Handbook. All faculty members who teach 700 doctoral level courses at East Stroudsburg receive a 3-credit AWE per course up to a maximum of two three-credit AWE's per calendar year. The East Stroudsburg doctoral coordinator is given a 6 hour AWE to coordinate the program. Faculty from IUP are given a 1 credit AWE to consult via telephone to share information about the similar course being taught at East Stroudsburg. The one-credit AWE for IUP faculty does not come from Doctoral Enhancement funds. The syllabus, book titles, and class projects are planned usually three months prior to the course being taught. APSCUF maintains that the AWE's need to become a negotiated agreement with the administration.

4. Impact of the Program
a. Demand: Prior to approval here at IUP, three separate needs assessments were conducted to determine whether a demand existed for this program. The needs assessment indicated that within an 80-mile radius of Indiana, a sufficient number of school administrators would apply for the program. This prediction has proven valid for the past four cohorts.

b. East Stroudsburg's program has had no effect on enrollment here at IUP. It appears that the East Stroudsburg program has a positive reputation based on the perceptions of current students.

Memorandum of Understanding for Extending the Partnership for 3 years beginning in 2003 and extending to 2007
1. East Stroudsburg and IUP faculty will continue to work together in designing and delivering the content of the syllabus throughout the terms of this agreement. All East Stroudsburg courses will be converted to an IUP transcript at the conclusion of the student's dissertation.

2. All credits from East Stroudsburg will be converted to an IUP transcript.
3. East Stroudsburg would offer all Administration and Leadership doctoral courses and the courses would be taught by their East Stroudsburg faculty who meet IUP's graduate standards for teaching 600 level graduate and 700 level doctoral courses.

East Stroudsburg will provide funds to support IUP's doctoral coordinator by providing for a 3 credit AWE replacement for the fall and winter term and will pay for a 3 credit contract for the IUP doctoral coordinator during the summer term.

East Stroudsburg will also provide funds for a 6 credit replacement for IUP faculty who will be working as partners with East Stroudsburg faculty for the 6 different courses that are offered in the fall, spring, and summer terms.

East Stroudsburg faculty will teach all classes:
   a. East Stroudsburg faculty will plan each course in conjunction with IUP faculty who are also assigned to teach the same course on the IUP campus.
   b. At times, IUP faculty may communicate with a class at East Stroudsburg via our video uplink.

IUP faculty will co-chair all East Stroudsburg dissertations. IUP faculty will be paid a 1 credit load, based on their current salary, for each dissertation they co-chair. **This fee will be paid to IUP faculty by East Stroudsburg**

IUP's Graduate school, IUP's College of Education, the Professional Studies Department and the Doctoral Program in Administration and Leadership will each receive $3,000.00 per year to maintain graduate records, to coordinate program reviews, to initiate program changes, and to insure that both programs are identical. **This fee will be paid by East Stroudsburg University.**

The IUP Library will receive $2,000.00 per year to maintain library privileges for East Stroudsburg students. **This fee will be paid by East Stroudsburg University.**
At the end of 3 years, both institutions will meet to decide whether to continue the program.

East Stroudsburg will continue to provide funds to support the Leadership Retreat for ESU students throughout the terms of this agreement. This Memorandum of Understanding would permit the admission of one new cohort group.

Annual Budget
East Stroudsburg will continue to pay IUP approximately $55,000.00 per year to maintain the partnership with IUP. Most of the money is used to support coordination of the program, co-chairing dissertations, administrative record keeping, faculty AWE's, and technology.

The Graduate School	$ 3,000.00
The Library	$ 2,000.00
College of Education	$ 3,000.00
Professional Studies	$ 3,000.00
Administration and Leadership	$13,000.00
Faculty AWE	
6 AWE credits per year	$8,000.00
9 Credits per year for IUP coordinator	$18,000.00
Misc. Expenses	
Travel, conferences, supplies	$5,000.00
Total	$55,000.00

4. An expiry date for the agreement: This agreement would end three years after Senate approval.

5. How will the program benefit both institutions?

IUP

This partnership model could be adopted or adapted by other graduate programs here at IUP who want to extend their graduate programs to other campuses. The model, as presented, promotes a much deeper commitment by the partnering university since individual faculty are involved in planning the course seminars each semester. In the past, we have had agreements with a sister institution to accept a block of credits for students who would complete their doctoral program on this campus. Although our IUP faulty reviewed course syllabi from the sister institution and voted to transfer a block of credits, we really had little input in how the classes were organized and evaluated at the sister institution. After several years, the partnership died. Our current model permits us to have a great deal of input into course content, course delivery, course evaluation, and the assessment of the overall program.

This partnership with East Stroudsburg enabled us to purchase new furniture, univents, computers, carpeting for IUP's doctoral seminar room and our video up-link room. The partnership will bring $200,000.00 to IUP over a three-year period. In addition, this money benefited our graduate and undergraduate students because we are able to invite nationally known experts on education to the IUP campus. The partnership will enable us to continue to buy additional books, videotapes, audiotapes, and journals to enhance our program on the IUP campus.

East Stroudsburg

East Stroudsburg faculty who plan to teach in this doctoral program have attended writing seminars at their own institution and have increased their emphasis on writing and research. A number of these faculty have submitted articles to various journals and several had their articles accepted.

In addition, East Stroudsburg faculty visit this campus and have a chance to work cooperatively with IUP faculty who are involved in writing and research.
They have the opportunity to join our Fall Retreat and take part in discussions focusing on: Leadership Development, Writing the Dissertation, Preparing an IRB Report, Methods of Research, and Organizing a Review of Literature.
East Stroudsburg faculty also have an opportunity to learn new teaching skills by partnering with IUP faculty who have authored textbooks, presented at national and international conferences, and who have had extensive experience in teaching graduate seminars.

This partnership not only permits East Stroudsburg to expand their own graduate program in education but also helps to keep IUP's doctoral program fiscally healthy. So far we have had no problem recruiting students. Thanks to our Web Page and our willingness to accommodate the students' work schedules, we always have more applicants than we can accept. Each cohort class averages about twenty students.

Signatures

Indiana University of Pennsylvania

Dr. Lawrence K. Pettit, President _____

Dr. Mark Staszkiewicz, Provost _____

Dr. James Petersen, Graduate Dean _____

Dr. John Butzow, Dean of Education _____

East Stroudsburg

Dr. Robert J. Dillman, President _____

Dr. Evelyn C. Lynch, Provost _____

Dr. James A. Fagin, Graduate Dean _____

Dr. Samuel Hausfather, Dean of
The School of Professional Studies _____

2. NEW PROGRAM: **PASSED**

Master of Science in Technology Management
This degree offers an opportunity for a person with a technical background and an entrepreneurial bent to better prepare himself/herself for the challenges of today's market place. Most of the new jobs are being created by small companies where the ability to

function in both the technical domain and the business arena is extremely valuable. In the past most Physical Science and Biology graduates did not go into "traditional careers," but their training was predicated on the assumption that they did. This master's degree could be useful for training students for jobs in such fields as technology transfer, marketing, international trade, environmental regulation, and research management. Five tracks are planned for students who would be interested in an industry that requires knowledge in one or more of the following areas: semiconductors, electronics, chemical technology, environmental chemistry, and radiation physics.

Admission Criteria: Applicants must have a BS or BA degree with a major in science or engineering and meet the requirements of the Graduate School and Research. In addition, they must have a minimum of three years professional experience working in industry.

Degree Requirements: The degree requires thirty-three or thirty-four hours in the sciences and business depending on which track is chosen. The student will be directed to an appropriate program of study dependent on prior education, experience, and training. In the final phase of the program, the student will either complete an internship in a regional business or a research project in consultation with a faculty advisor.

Student Advisement: Since the background of students choosing to earn this degree will be quite varied, there must be a variety of courses from which the student can select. The choice of courses would be made with the guidance of the MTM graduate committee which will carefully study the student's transcript and evaluate his/her career interests and background. This committee will be formed of one faculty member from the College of Natural Sciences and Mathematics, one from the Eberly College of Business, and one from either from the College of Natural Sciences and Mathematics or the College of Health and Human Services. It will consist of the MTM graduate coordinator and two other members of the Colleges mentioned above. One of the committee members will help the student choose courses that would provide a knowledge of the fundamentals in Business Management and Applied Science. Five tracks are given below for students who would be interested in the semiconductor industry, the electronics industry, the chemical technology industry, environmental chemistry, and radiation physics. If the student has already taken a course listed (and the course has not been transferred in) then some other course in the same department will be substituted. The maximum number of such course substitutions is two. The student may with the approval of the Graduate School at IUP transfer up to six credits of graduate work taken as a graduate student at another institution. Most of the business courses are offered in both the fall and spring semesters and a number of them are offered in the summer time. The technical courses are usually only offered once a year. For students who are attending IUP full time, the degree would take a minimum of one and one-half summers and an academic year. The Internship and/or thesis would be finished in the second summer.

Program Requirements: It is required that the student take three credits of either an internship or thesis. Total of Business courses must not exceed 50% of the total credits. The total number of credits required is thirty-three or thirty-four, depending on the track chosen. Advisory committee may require international students whose native language is

not English to take appropriate English language improvement through the American Languages Institute, concurrently with graduate course work. COSC 110 (Problem Solving and Structured Programming) is recommended for those who have not had a structured programming course.

I. Business Courses for all tracks: **15 s.h.**

Required Courses **9 s.h.**

ILR	631	Human Resource Management	3 s.h.
MGMT	613	Organizational Analysis	3 s.h.
MKTG	603	Marketing Management	3 s.h.

Choose one of the following two courses **3 s.h.**

QBUS	601	Quantitative Business Methods	3 s.h.
IFMG	640	Management Information Systems	3 s.h.

Choose one of the following three courses **3 s.h.**

MGMT	651	International Management	3 s.h.
MGMT	637	Operations Management	3 s.h.
MGMT	654	Managing Global Competition	3 s.h.

II. Physics or Chemistry Tracks
Students choose one of the following tracks.

Semiconductor Industry Track **16 s.h.**

PHYS	535	Electronics	4 s.h.
PHYS	545	Optics	3 s.h.
PHYS	575	Physics of Semiconductor Devices I	3 s.h.
PHYS	590	Solid State Physics	3 s.h.
PHYS	658	Physics and Applications of Industrial Materials	3 s.h.

Electronics Industry Track **16 s.h.**

PHYS	535	Electronics	4 s.h.
PHYS	536	Advanced Electronics	3 s.h.
PHYS	545	Optics	3 s.h.
PHYS	555	Computer Interfacing **or**	
PHYS	520	Advanced Lab Practice	3 s.h.
PHYS	658	Physics and Applications of Industrial Materials	3 s.h.

Chemical Technology Track **15 s.h.**

CHEM	521	Advanced Instrumental Methods of Analysis	3 s.h.
CHEM	535	Current Topics in Organic Chemistry	3 s.h.
CHEM	623	Physical and Chemical Methods of Separations	3 s.h.
CHEM	633	Chemical Literature	3 s.h.
CHEM	646	Biochemistry	3 s.h.

Environmental Chemistry Track **15 s.h.**

CHEM	521	Advanced Instrumental Methods of Analysis	3 s.h.

CHEM	623 Physical and Chemical Methods of Separations*	3 s.h.
CHEM	646 Biochemistry	3 s.h.
SAFE	630 Pollution Control	3 s.h.
Elective Environmental Course		3 s.h.

*May substitute CHEM 620 Analytical Chemistry

Radiation Technology Track   **15 s.h.**

PHYS	520 Advanced Lab Practice	3 s.h.
PHYS	565 Introduction to Nuclear Physics	3 s.h.
PHYS	658 Physics and Applications of Industrial Materials	3 s.h.
SAFE	562 Radiological Health**	3 s.h.
SAFE	606 Hazardous Materials Management	3 s.h.

**May substitute CHEM 576 Radiation Chemistry

If the student has already had some of these courses then other courses may be substituted with the permission of the MTM graduate committee if the course has not already been transferred.

III. Thesis or Internship   **3 s.h.**

Total required   **33-34 s.h.**

New Course – Physics Department   **PASSED**

PHYS 658 Physics and Applications of Industrial Materials   **2c-2l-3sh**
The course is designed to introduce the essential physics and current industrial applications of technologically important materials. The course will have both lecture and lab components. Materials of interest will span semiconductors, ceramics, polymers, and composites that find application in microelectronics, magnetic recording, flat panel displays, medical application, and micro machines.

3. **POLICY REVISION:**

Total University Withdrawal Policy
<u>Purpose</u>: The Total University Withdrawal policy provides students who are unable to complete a semester with the option of withdrawing from all classes, and thus for the university, for that semester.

<u>Deadline</u>: During the Fall and Spring semesters, Total University Withdrawals may be processed between the first day of classes and the end of the tenth week of the semester. During summer parts of term, the deadline is two-thirds point of each summer course for which the student is registered.

Rationale: The current Total University Withdrawal Policy does not specify a deadline after which Total University Withdrawals may no longer be processed. The revised policy sets a deadline for Total University Withdrawals commensurate with the deadline

for Individual Course Withdrawals, which is the two-thirds point of the semester for Fall, Spring, and Summer parts of term.

APPENDIX D
Non-Credit Committee
Chairperson Barton

For Information:

Dean Carleen Zoni provided an update on activities of the Academy for Culinary Arts. She said a capacity class of 101 students from 25 states started in the fall. Normally 25 percent of those who complete the 16 month program enter a bachelor's degree program at IUP, while others find employment in 4 and 5-star establishments.

APPENDIX E
Research Committee
Chairperson Guth

The USRC met on November 13, 2001 and reviewed proposals. The committee awarded one grant to the following individual:

Dr. John Zhang received $1,484 to present his paper "Comparison Simulation Study on Ridge Regression" at the International Congress of Mathematicians in Beijing, China.

The next USRC meeting will be on Tuesday, December 11 at 3:15 p.m. in 317 Clark Hall.

APPENDIX F

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Academic Committee
Chairperson Andrew

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FOR SENATE INFORMATION:

1. UNIVERSITY POLICY ON SEMESTER COURSE SYLLABI

The Academic Committee offers the following clarification of the University Policy on Semester Course Syllabi.Semester syllabi may be distributed in hard copy or electronically.

2. REVISIONS TO WITHDRAWAL POLICIES

The Academic Committee presents the following revisions to the Total University Withdrawal Policy and the Individual Course Withdrawal Policy. Please direct any comments or questions to Allan Andrew (ATANDREW).

RATIONALE FOR REVISIONS:

A. The current Total University Withdrawal Policy does not specify a deadline after which Total University Withdrawals may no longer be processed. The revised policy sets a deadline for Total University Withdrawals commensurate with the deadline for Individual Course Withdrawals, which is the two-thirds point of the semester for Fall, Spring, and Summer parts of term

B. Neither of the current policies provides clear guidelines for exceptional cases. The revised policies specify the grounds and the process for exceptions.

3. TOTAL UNIVERSITY WITHDRAWAL POLICY

Purpose: The Total University Withdrawal policy provides students who are unable to complete a semester with the option of withdrawing from all classes, and thus from the university, for that semester.

Deadline: During the Fall and Spring semesters, Total University Withdrawals may be processed between the first day of classes and the end of the tenth week of the semester. During summer parts of term, the deadline is the two-thirds point of each summer course for which the student is registered.

Exceptions:

Late Withdrawal: Any undergraduate student who needs to withdraw from the university after the deadline must process a waiver through the office of the dean of his or her college. Approval of the waiver is contingent upon documentation of catastrophic circumstances preventing the student from completing the semester. Approved waivers must be submitted to the Advising and Testing Center and attached to the Total University Withdrawal form for processing as below.

Involuntary Withdrawal: Any undergraduate student involuntarily withdrawing from the university as a result of suspension or expulsion will automatically have the designation of "W" assigned to each registered course as a result of such judicial action.

Process: Undergraduate students voluntarily withdrawing from the university during the Fall, Spring, or Summer parts of term semester must process a Total University Withdrawal Form from the Advising and Testing Center, 106 Pratt Hall, 724-357-4067. Once the Total University Withdrawal has been processed, a withdraw designation ("W") will be assigned to all registered courses in the semester from which the student is withdrawing.

Readmission: Students should refer to the Readmission Policy for Students Who Withdraw from the University Voluntarily for further information. Applications for readmission are available in the Office of the Registrar, Clark Hall, 724-357-2217.

4. INDIVIDUAL COURSE WITHDRAWAL POLICY

Purpose: The Individual Course Withdrawal Policy provides students who are unable to complete a course with the option of withdrawing from that course. This option should be taken only after other options have been discussed with the instructor and/or the student's advisor.

Deadline: During the Fall and Spring semesters, Individual Course Withdrawals may be processed online between the day after the conclusion of the drop/add period and the end of the first two-thirds of the academic term. During summer parts of term, the deadline is the two-thirds point of each summer course for which the student is registered. After the two-thirds point of each semester or part of summer term, students may no longer process Individual Course Withdrawals.

Exceptions: A student needing to withdraw from a course after the deadline must process a request for deadline waiver through the office of the dean of his or her college. Approval of the waiver is contingent upon documentation of catastrophic circumstances preventing the student from completing the semester. If a waiver is approved, the college office will arrange for recording the "W" designation.

Process: Students use the computer registration system to process Individual Course Withdrawals.

Student, Advisor, and Instructor Communication: Since instructors inform students of their standing in class prior to the two-thirds point of the semester (Midterm Grade Report Policy), students will be able to discuss course withdrawals with instructors and/or academic advisors to assess alternatives. Students, advisors, and instructors should also understand the significant impact of course withdrawal on financial aid eligibility (percent of completion and eligibility to move to the next class level). Students are also cautioned to consider the detrimental impact of Ws in a transcript review by a prospective employer or graduate school.

FOR SENATE ACTION:

1. EMERITUS NOMINATIONS   **PASSED**

The Academic Committee nominates the following individuals for Emeritus Status effective with commencement on May 12, 2002:

Name Department Years of Service

Arlo Davis Mathematics 31

Anthony G. DeFurio Art 32

Diane Duntley Academic Affairs 30

Dale E. Landon History 33.5

Ann Massey Mathematics 12

Robert Stonebraker Economics 30

Mario Sussman Psychology 25

Lawrence J. Turton Special Education 21

George Walz Psychology 32

Approved: Senate Academic Committee November 13, 2001

2. CANCELLED SEMESTER POLICY: **PASSED**

The Academic Committee presents for Senate action this revision to the Cancelled Semester Policy. The purpose of the revision is to clarify the existing policy.

CANCELLED SEMESTER POLICY

Purpose: The Cancelled Semester Policy provides for cancellation from the cumulative record of the effects of one semester below 2.00 for the purpose of helping a student improve academic standing.

Conditions: The student must have been separated from the university for four consecutive semesters and the intervening summer sessions.

Definitions:

One semester refers to any semester of enrollment, whether full- or part-time, with the summer sessions collectively considered as one semester.

Cancellation removes the mathematical effect of all grades (passing, failing, withdrawals) from the semester, but there is no abridgement of the transcript. All courses

and original grades remain visible on the official transcript; credit toward graduation remains for those credits associated with passing grades.

Academic Standards: A student readmitted under this policy must meet current degree requirements and will be reviewed under current academic standards requirements applicable at the time of readmission.

Restrictions:

Single occurrence: This policy may be invoked only once in a student's undergraduate enrollment in the university.

Active enrollment: While readmission may be based on the application of the cancelled semester, the transcript record will reflect this only after the student is enrolled and attending IUP. It is not a tool to qualify for transfer to another institution

Process: The student must apply to the college of which he/she was a member at the time of last enrollment. If a student wishes to enter a major in a college other than the one from which he/she was separated, he/she will apply to the original college, which will forward the application and related records to the new college for action. The college will inform the office of the Registrar if the application is approved. Authorization for registration will come from that office.