

December ~~17~~⁴, 1968

TO: UNIVERSITY SENATE MEMBERS

FROM: VERA JENKINS
Secretary of the Senate

SENATE MEETING: Friday, January 3, 1969 - 4:00 p.m. - AUDITORIUM
IN THE ENGINEERING SCIENCE BUILDING. (Room 273).

AGENDA FOR MEETING:

- 1) Approval of minutes of previous meeting (Friday, December 6, 1968)
- 2) Report of Constitution and Bylaws Committee (David Behen)
- 3) Report of Senate Council and Other Committees:
 - a) Report of Senate Council (Philip J. Hahn)
 - b) Report of Joint Committee - Academic Dean's and Academic Affairs Committee (Vice-President Coffield)
 - c) Report of Curriculum Committee (Thelma Miner)
- 4) Remarks by President Albert L. Pugsley

MINUTES
YOUNGSTOWN STATE UNIVERSITY
SENATE MEETING

Friday, January 3, 1969

PRESENT: *Mrs. Botty*, Mr. Fortunato, Mr. Boland, Miss Pfau, *Mr. Hankey*, *Mr. Chrisp*, *Mrs. Miner*, Mr. Baker, Mr. Miller, *Mr. Hare*, Mr. **Behen**, *Mr. Ellis*, Mr. Riley, Mr. Earnhart, Mr. Blue, Mr. Skardon, Mr. Domonkos, Mr. Slavin, Mr. Rosenberg, Mr. Paraska, Mr. Morrison, *Mr. Letchworth*, Mr. Cohen, Mr. **Kiriazis**, Mr. Teodorescu, Mr. Gay, Miss Boyer, Mr. Hotchkiss, *Mr. Beckman*, Mr. Foster, Mr. Hurd, *Miss Sterenberg*, *Mrs. Solak*, Mr. **Vanaman**, Mr. **Shipman**, Mr. Swan, Mr. **Azneer**, Mr. Flad, Mr. Van Zandt, Mr. Webster, Mr. **Kelley**, *Mr. Wales*, Mr. Carson, *Mrs. Painter*, *Mrs. Smith*, Mr. Klasovsky, *Mr. Richley*, *Mr. Harris, Jr.*, *Mr. Mahadeviah*, Mr. Foldvary, *Mr. von Ostwalden*, *Mr. Gillespie*, Mr. Naberezny, Mr. **Spiegel**, *Mr. Rand*, Mr. **Edgar**, Mr. **D'Isa**, Mr. Tarantine, Mr. Byo, *Mr. Livosky*, Mr. **Yozwiak**, *Mrs. Dehnbostel*, Mr. **Reilly**, Mr. Painter, Mr. Ives, *Mr. Dykema*, Mr. Hahn, Mr. Jonas, *Mrs. Mackall*, Miss Jenkins, Vice-President Coffield and President Pugsley.

PRESIDING: PRESIDENT ALBERT L. PUGSLEY TIME: 4:00 p.m. (ES AUDIT.)

President Pugsley welcomed members of the Senate back to school at the start of a New Year, **1969!**

The President called for the approval of the minutes of the previous meeting (Friday, December 6, 1968). There being no additions or corrections the minutes were declared approved as distributed.

REPORT FROM CONSTITUTION AND BYLAWS COMMITTEE:

This report was given by the Chairman, Dr. David **Behen**. Dr. **Behen** stated this Committee is working and will continue to work but nothing to present or report at this time.

REPORT FROM SENATE COUNCIL:

This report was given by the Chairman, Dr. Philip J. Hahn. Dr. Hahn reported that Senate Council has taken the following actions since the last meeting of the Senate:

- "1) Determined that the Curriculum **Committee** was the appropriate Committee to work with Dr. Coffield in establishing an **Ad Hoc** Committee for the purpose of considering and making recommendations about proposals to establish a curriculum in Non-Western culture.
- 2) Forwarded to the Faculty Affairs Committee a copy of a legal opinion prepared by Attorney-at-law Theodore R. **Cubbison** addressed to Dr. John Coffelt regarding the question of whether accumulated sick leave may be transferred from the Board of Education in the Ohio Public School System to a State University, with the suggestion that it consider and publicize the information.

(CONT'D. NEXT PAGE)

SENATE MINUTES CONT'D.: (Friday, January 3, 1969)
REPORT FROM SENATE COUNCIL CONT'D.:

- 3) Referred to the Academic Affairs Committee matters in a memorandum from President Pugsley to Senate Council concerning:
 - a) The regulation about a reduction in credit hours as a penalty for absences.
 - b) The matter of keeping class attendance records,
 - c) The matter of destroying final and other examinations without returning them to students or without further reference to them.

- 4) Accepted a proposal by Dr. Margaret Pfau for a Committee on textbook complaints by the public by creating a Standing Subcommittee of the Academic Affairs Committee. Membership to be three (3) faculty members and Ex Officio, the Librarian. The Committee is charged with the responsibility to review and answer complaints about textbooks and to assist faculty in defense of choices of textbooks."

Dr. Hahn stated that Dr. Irwin Cohen has submitted a letter to Chancellor **Millett** in which a considered faculty reaction has been provided to a proposed **statement** by the Chancellor concerning the academic work week. A copy of this letter appears with the minutes of this Senate meeting.

Dr. Hahn further stated that proposals concerning matters related to Ohio Revised Code 3345.21 are being developed by faculty committees and others and will be presented to the Senate for consideration when completed.

REPORT FROM JOINT COMMITTEE - ACADEMIC DEAN'S AND ACADEMIC AFFAIRS COMMITTEE

Dr. David **Behen** made this report at the request of Dr. William H. Coffield.

This report concerned the material which had been distributed earlier to Senate members regarding:

- RECOMMENDATION I: **WITHDRAWALS**
RECOMMENDATION II: **INCOMPLETES**
RECOMMENDATION **III**: **WARNINGS, PROBATIONS AND SUSPENSIONS**

MOTION: Dr. **Behen** moved that the Proposal (concerning Recommendation I, Withdrawals; **Recommendation II**, Incompletes; and Recommendation **III**, Warnings, Probations and Suspensions) that was distributed be accepted as distributed.
Seconded.

DISCUSSION:

Dr. **Behen** stated the Joint Committee (The Academic Deans

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SENATE MINUTES CONT'D. : (Friday, January 3, 1969)
REPORT FROM JOINT COMMITTEE (Academic Dean's & Academic Affairs cont'd.)

DISCUSSION CONT'D.: (by Dr. Behen)

Committee and the Academic Affairs Committee) do not present this as a perfect solution to a complex set of problems. It is not a proposal that met with the approval of all members of these two (2) committees. They did reach an agreement, a compromise proposal, which they could all support and agreed to this. This is a series of complex matters and it would be impossible to draw up a proposal that would please all. This group at their meetings have given serious consideration and lengthy discussions to this. There are points Dr. Behen stated that he might have drawn up differently but this is the result of the agreement of the group.

COMMENTS ON MOTION:

- 1) Are we to vote point by point on this? Some of the points would meet with general approval and others might not.

AMENDMENT: Moved to deal with each section by section.
Seconded.
DID NOT PASS.

Dr. Behen commented at this point he thought it would be most helpful if anyone wanted to ask questions on the proposal he would be glad to answer them if he could.

COMMENTS CONT'D.:

- 2) What about an 'Incomplete'? Will it be left to the discretion of the Instructor?

Dr. Behen stated the Committee started out trying to do something more specific. Students may be called (for example) to Military Service, then the student decides he wants to make a career in the service. There should be some terminal point. This should be a matter between the student and his Instructor. No time limit provided for an "Incomplete".

- 3) Referring to Withdrawals, #3 of this section which states: "Any grade of F assigned because of absence may be reviewed upon petition to the appropriate Dean".

Dr. Behen mentioned that in the case of a regular Quarter a student does not come to class after the first (1st) six (6) weeks of the Quarter. He is assigned a grade of "F". This gives an opportunity to the student (if he were in a severe accident, ill in hospital, etc.) to petition. The point here was the desire to afford reasonable protection to the student. He should not be unduly penalized and that was the reason it was put in there.

- 4) Referring to "Incompletes II":
It could stand forever, but the Instructor could put a time limit on it. It rests with the Instructor.

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SENATE MINUTES CONT'D.: (Friday, January 3, 1969)
COMMENTS ON MOTION CONT'D.:

- 5) Referring also to "Incompletes II":
Is it in the recommendation that it be the recommendation of the Instructor to set a time limit on the "Incomplete".

No, it is not in there but the second sentence of this section should take care of this.

- 6) What powers do the Deans have to distinguish between an academic "F" or any "F" whatsoever?

#3 in this section should take care of this.

- 7) Withdrawals:

What is to prevent a student saying he was unjustly assigned the "F" because he missed too many classes or was ill, etc.?

Dean Karl Dykema mentioned he could speak only for himself but that requests (of this nature) do come in constantly and he checks everything on this order before he acts.

Dr. Behen stated that a few years ago the Committee on Credits and Admissions reviewed changes of grades. He was a member of this Committee for a number of years. Where cases of prolonged illness occurred he said they asked for statements from Doctors and Hospitals, etc., in order to verify the circumstances. Dr. Behen stated he thought this Committee was tough but they were not perfect.

He also stated that in any Institution somebody has to have an option of this sort to review the circumstances, etc. This used to fall on Dean Joseph E. Smith. There has to be some final recourse for this. Dr. Behen stated he thought Dr. William H. Coffield would be the one to take care of this at the University. Dr. Behen mentioned that most amazing things happen to students at times.

MOTION: Moved to close debate on the entire resolution.
Seconded.

IN FAVOR: 28. NAY: 33. DISCUSSION CONTINUED,

- 8) Withdrawals, #2:

#2 states: "W to be given for all withdrawals properly processed during the first six weeks of any quarter (or first three weeks of either split summer session). A withdrawal made after the three-to-six week period will be recorded as an F unless the withdrawal was the result of circumstances over which the student had no control, as shown by evidence presented by the student in a petition to the appropriate dean."

Under this, could a person fail, for example, six tests?

Dr. Behen stated it was not the idea to change the policy. Fixing on a point of time is delicate, Some of the Committee wanted a longer period and some wanted a shorter period. This represents a compromise.

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SENATE MINUTES CONT'D. : (Friday, January 3, 1969)
COMMENTS ON MOTION CONT'D. :

9) One Senate member requested an interpretation of why the pressure for lowered standards? Have 'Incomplete' which could go on for a major portion of eternity.

Dr. Behen mentioned on one point he could speak for the two (2) Committees and as follows: They did not intend to lower standards. There is the intention and purpose to avoid handing out failing grades to many students who would not receive them by some cut-off date. Upon this (Dr. Behen's own feeling), is that if you allow any period in which the student may withdraw without penalty it has been agreed the student shall have some period of time to try himself out in the course and finding it is not for him may withdraw without penalty. The cut-off point (4 weeks, 6 weeks, 8 weeks, whatever it happens to be as wanted by some) was a compromise in the Committee. There is no absolute fixity to these periods. To some members of the Committee six weeks is too short a time and not reasonable; to others four weeks with the same idea; to some eight weeks with the same idea.

The general principle is the student should have a period to try himself out in the course and leave the course without penalty and the recommendation was for six (6) weeks.

- 10) We can sit here for two hours and not get any place.
We assume some students will try to beat it. We can pick this to pieces.
Let's get to a vote.

MOTION: Moved for the passing of the preceding question,
(cut off debate).
FAVOR: 47. NAY: 18.

ORIGINAL MOTION CALLED FOR: (Restated at this point).

ORIGINAL MOTION: Dr. Behen moved that the Proposal (concerning RECOMMENDATION I: Withdrawals; RECOMMENDATION II: Incompletes; and RECOMMENDATION III: Warnings, Probations and Suspensions) that was distributed be accepted as distributed.
Seconded.
AYES HAVE IT. MOTION PASSED.

President Pugsley mentioned the administration is not placing any pressure to lower standards but is moving in the other direction.

COMMENTS AFTER MOTION PASSED:

1) One Senate member stated this had come up before. This was returned to the two Committees. Possibly they should have held some public hearings. Committees should announce when they are having meetings on this order so that interested Senate members could attend.

Dean Dykema stated at this point that the College of Arts and Sciences members did have a meeting at which this was discussed.

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SENATE MINUTES CONT'D. : (Friday, January 3, 1969)
COMMENTS AFTER MOTION PASSED CONT'D. :

2) One member mentioned that the two Committees who worked on this numbered about 20 people.

3) Debate has been cut-off and the Motion passed. There will be times when important resolutions should be discussed a little more thoroughly.

4) It is an affront to state that this Committee was trying to steam-roll this.

REPORT OF CURRICULUM COMMITTEE:

This report was made by the Chairman, Dr. Thelma Miner.

Xeroxed copies were distributed to Senate members by Curriculum Committee which listed the courses and course changes approved by the Curriculum Committee at their recent meetings.

MOTION: To approve changes requested by Mr. Jack Foster in the Law Enforcement Administration (Police Science) Program. These were approved by the Curriculum Committee.
Seconded. MOTION PASSED UNANIMOUSLY.

MOTION: To approve the courses and course changes in Chemistry approved by the Curriculum Committee.
Seconded. MOTION PASSED UNANIMOUSLY.

MOTION: To approve the courses and course changes approved by the Curriculum Committee in the following: Economics, History, Geology, English, Sociology, Political Science, Psychology and Latin.
Seconded. MOTION PASSED UNANIMOUSLY.

MOTION: To approve the courses and course changes approved by the Curriculum Committee in the following: Physics, Biology, Mathematics and Health and Physical Education.
Seconded. MOTION PASSED UNANIMOUSLY.

NOTE: The Secretary has in the Senate Minute Book Xeroxed copies of all the above changes approved by the Curriculum Committee and passed at today's Senate meeting. Anyone who wishes to see them may do so as they are placed in the book with these Minutes.

Dr. Thelma Miner mentioned that with the many changes in course material, etc., the importance of carefully proofreading the material for the new Catalog. This must be checked very carefully. Our new Catalog should be consistent and accurate.

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SENATE MINUTES CONT'D. : (Friday, January 3, 1969)
REPORT FROM CURRICULUM COMMITTEE CONT'D. :

If Department Chairmen expect to make changes in their Curricula, courses, etc., a Summary Sheet similar to the one used by the Mathematics Department, School of Business Administration, or Engineering School would be very helpful. It is much easier to understand these changes when presented in this manner.

All new courses should be presented to the Senate members and these should be included in the Senate minutes.

MOTION: Dr. Thelma Miner moved that the University Curriculum Committee be empowered to approve certain minor changes without bringing them on to the Senate. Changes such as: course title, descriptions, prerequisites but NOT hours of credit changes.

COMMENTS:-

- 1) Any change in the listed hours of credit would have to come before the Senate.
- 2) Dr. Coffield stated that regarding the matter of course changes, etc., he would still like to have these brought to the Senate.
- 3) What Dr. Coffield said is correct. We spend a few **minutes** on this and **it** is passed as **Mrs. Miner**, Chairman of the Curriculum Committee presents **it**. This is the result of their actions. It is distributed to all members of the Senate. The Senate could take **up** everything but not everything in minute detail.
- 4) We have confidence in these people (Curriculum Committee). If there is anything wrong with any of the material we could discuss this,
- 5) Some of the **Biology** courses were modified slightly. There were some minor changes but **it** would not be necessary in this case to present each course for the minor changes.

Mrs. Miner at this point mentioned that we might have more time to consider the new courses if more or less of the mechanical details were taken care of by the Curriculum Committee. She stated there has been some criticism from Senate members for some of the detailed material sent to them from the Curriculum Committee.

- 6) In defense of **Mrs. Miner**: one member stated he had tried to make new programs and also make some minor changes. He felt innovation is becoming more difficult in this institution because of the procedural steps we must go through. We can improve the steps. Perhaps by rewording the original proposal. We are concerned more with what we are going to say NAY to.

SENATE MINUTES CONT'D. : (Friday, January 3, 1969)
COMMENTS CONT'D. :

- 7) It would make for more rapid procedure and reduce the bulk of the packages the Senate must look at from the Curriculum Committee. something has to be done about these courses; the details are many. We have to trust our Committees to make decisions. They must know what are major matters and what are minor; then we would not have to look at so much junk.

President Pugsley mentioned at this point the listings would all be recorded in the minutes as this is necessary. Reporting to the Senate on courses and course changes would still be there; passing the material on to the Senate would still be there; and returning the material necessary to the Curriculum Committee would still be there.

- 8) Perhaps this proposal should be Incorporated as a Bylaw. Strictly speaking Dr. Coffield is correct; everything should go to the Senate for approval.

Mr. Dykema moved to amend the Original Motion.

ORIGINAL MOTION: Dr. Thelma Miner moved that the University Curriculum Committee be empowered to approve certain minor changes without bringing them on to the Senate. Changes such as: course title, descriptions, prerequisites but NOT hours of credit changes.

AMENDMENT: Mr. Dykema moved to refer the Original Motion to the Committee on Constitution and Bylaws for study.
IN FAVOR: 37. NAY: 25.
AYES HAVE IT. (This was a substitute Motion).

COMMENT:

- 1) Is there urgency to pass it tonight or could it be tabled?

President Pugsley did not make any remarks due to the lateness of the hour.

Respectfully submitted,

Vera Jenkins
SECRETARY OF THE SENATE

January 3, 1969: Passed at Senate meeting (Friday, January 3, 1969).
Effective immediately (winter Quarter 1968-69).

V. Jenkins
SECRETARY OF THE SENATE

RECOMMENDATION I: WITHDRAWALS

(1) Present grades of WP and WF be eliminated; substitute W for withdrawals properly processed, F otherwise. W's will not enter into grade point computation; F's apply as usual.

(2) W be given for all withdrawals properly processed during the first six weeks of any quarter (or first three weeks of either split summer session). A withdrawal made after the three-to-six week period will be recorded as an F unless the withdrawal was the result of circumstances over which the student had no control, as shown by evidence presented by the student in a petition to the appropriate dean.

(3) Any grade of F assigned because of absence may be reviewed upon petition to the appropriate dean.

(4) By "properly processed" in the above is meant withdrawals made in conformity with the instructions on the official Change of Registration form.

(5) Where withdrawals change the status of a student (full-time to part-time), the student immediately forfeits any privileges contingent upon full-time status, and all interested parties which legally require it will be notified (draft boards, scholarship or loan-supporting agencies, etc.).

January 3, 1969: Passed at Senate meeting (Friday, January 3, 1969).
Effective immediately (Winter Quarter 1968-69).

V. Jenkins
SECRETARY OF THE SENATE

RECOMMENDATION 2: INCOMPLETES

(1) The grade of I may be given to a student who has been doing satisfactory work in a course but who, for reasons beyond his control and deemed justifiable by the teacher, has not completed all requirements for a course when grades were submitted. A written explanation of the reason for the I must be forwarded to the records office for inclusion in the student's permanent record, with copies to the student, department chairman, and the dean of the school. A standard form, which must include a record of the student's grade at the time he left the course, is provided for this purpose.

It must be emphasized that an I may be used only for a student whose previous work in that course has been satisfactory, and only for reasons beyond that student's control. In no case may an I be used to allow a deficient student extra time to avoid failing the course.

(2) Until the I is converted, it will not be included in the calculation of the student's point average.

(3) Department chairmen are granted authority to convert grades of I into final grades in cases where teachers may have severed connections with the University or have become incapacitated before accomplishing conversion of the grade.

(4) The present E grade is hereby discontinued.

January 3, 1969: Passed at Senate meeting (Friday, January 3, 1969).
Effective immediately (Winter Quarter 1968-69).

V. Jenkins

SECRETARY OF THE SENATE

RECOMMENDATION 3: WARNINGS, PROBATIONS, AND SUSPENSIONS

To make clearer to a student what academic situation he has got himself into, four categories of academic status have been established: good standing, warning, probation, and suspension. The last three categories are intended as extended opportunities to permit a student ultimately to achieve graduation, not as punishments. Suspension, which means an unspecified period of separation from the University, assumes the possibility of a greater maturity which will increase the student's judgment and responsibility, qualities which should improve his capacity for academic achievement.

Recognizing that the transition from high school to college may be a difficult one, the minimum levels of academic achievement during the student's first two years in college have been set somewhat below what will be required of him in order to graduate. The point averages required are as follows:

<u>Cr. Hrs.</u>	<u>GPA</u>
1-14	1.4
15-29	1.5
30-44	1.6
45-59	1.7
60-74	1.8
75-89	1.9
90+	2.0

A student who falls below the specified average for the number of hours he has passed will be warned that he has dropped below the minimum grade for good standing. If by the end of the following quarter he has failed to bring his average up to the minimum, he will

January 3, 1969: Passed at Senate meeting (Friday, January 3, 1969).
Effective immediately (Winter Quarter 1968-69).
(Cont'd. from preceding page).

V. Jenkins
SECRETARY OF THE SENATE

RECOMMENDATION 3 (CONT'D.): **WARNINGS, PROBATIONS, AND SUSPENSIONS**
be put on probation. If at the end of the probationary quarter he has failed to bring his average up to the minimum, he will be suspended; however, if he makes substantial improvement during a probationary quarter--averages at least 2.25 for that quarter--he will be continued on probation even though his cumulative average does not reach the minimum.

Transfer students admitted in good standing or on probation must meet those point average requirements indicated for their total hours including transfer hours accepted by the University.

Regulations for students with 90 or more quarter hours: a student with Junior or Senior standing may be held to any requirements deemed necessary by his school dean in order to restore or maintain academic standing. Probation or suspension may be employed at the dean's discretion.

December 18, 1968

Mr. John D. Millett, Chancellor
Ohio Board of Regents
58 East Broad Street, Room 770
Columbus, Ohio 43215

Dear Chancellor Millett:

This is in answer to your request for a considered faculty reaction to and suggestions on your proposed statement of policy on the academic work week distributed to the Faculty Advisory Committee on November 25, 1968.

I have discussed this matter with many individual faculty members and at meetings of the University Senate and its Senate Council. There is a strong feeling that you are right in resisting any attempt to introduce a wage-hour aspect in university or college faculties. There is also a strong feeling that there is grave danger that a statement such as you propose might turn out to be more than an illustration, and instead be "policy". We think no reference should be made to policy whatsoever in this respect.

A more detailed consensus is not possible, but my own view is that we need to strive for genuine cooperation with the legislature, which means that the Ohio Educational Review Commission needs to be educated to the workings of the higher educational system. I do not mean this in any invidious sense, for I suppose it is because the legislature wants to find out more that the Commission was set up, and therefore it is incumbent on us to inform them more fully concerning the aims and complexities of higher education,

Sincerely yours,

Irwin Cohen, Professor
Department of Chemistry

IC/cb

cc: President A. Pugsley
Phillip Hahn, Senate Council

YOUNGSTOWN STATE UNIVERSITY
SENATE MEETING
Friday, January 3, 1969

IN ATTENDANCE:

P E Boney
 M. J. ...
 J. R. Beaud
 Margaret J. Pan
 Clyde Hanky
 Marni Chrisp
 Helma S. Miner
 William C. Baker
 Lucia
 Robert R. Hare
 Beher
 M. Ellis
 Bruce G. Riley
 J. H. Eank
 Frederick J. Blue
 Alvin Shardon
 L. S. Domonkos
 M. Shavin
 Fred Rosenberg
 N. Paraska
 Chaplain W. Morrison

George Leblowitz
 L. Shew
 James W. Konazje
 D. Teodorescu
 Thomas Gray
 I. Boyer
 Sanford N. Hatchers
 David Beckman
 Jack D. Foster
 Raymond W. Shud
 Elizabeth Sterenberg
 Margygg Solak
 Cyril Vanaman
 W. J. Shipman
 Wm Swan
 J. H. Gzell
 William S. Fead
 Van Zandt
 W. K. Weber
 George G. Kelley
 John W. Wals
 James Carson
 Ed. Painter

Mary Smith
 Michael Glasovsky
 Victor A. Richley
 Earl Harris Jr.
 Inally Mahadeviah
 Elmer Foldvary
 Poon Ostwalden
 John P. Gillespie
 J. M. Naboujny
 Leonard B. Spigel
 H. Rand
 W. Coppfield
 E. Edger
 J. Paul W. Ba
 Frank Tarantyne
 Donald W. Byg
 Wm Luosby
 B. J. Gyzwack
 Nellie G. ...
 Ed. T. Reilly
 Clyde A. Painter
 David S. Ives

YOUNGSTOWN STATE UNIVERSITY

SENATE MEETING

Friday, January 3, 1969

IN ATTENDANCE CONT'D.:

J. W. Dykema
Chris John
Ronald V. Jones
Emily Macpall
deaf Jenkins

1-3-69 courses and course changes

NOTE: approved by Curriculum Committee and passed at Senate meeting Friday, January 3, 1969.

Vera Jenkins
SECRETARY OF SENATE

Mr. Foster has requested changes in the Law Enforcement Administration (Police Science) program. First, approval of the following courses which are now offered in the Police Science Technology Curriculum for lower division credit. for students taking Law Enforcement Administration *in the 4-year program in the College of Arts and Sciences.*

- PST 501 Introduction Law Enforcement 3 q.h.
- PST 604 Patrol & Field Operations 3 q.h.
- PST 605 Criminal Justice 3 q.h.
- PST 610 Principles of Criminal Investigation 3 q.h.
- PST 611 Advance Criminal Investigation 3 q.h.
- PST 612 Criminal Identification 3 q.h.
- PST 620 Criminal Procedure 3 q.h.
- PST 621 Evidence 3 q.h.
- PST 660 Police Community Relations 3 q.h.

Second, the dropping of the following courses listed on pp. 125-6 of the 1968-69 catalog:

- 738. Corrections 3 q.h.
- 740. Traffic Law and Control 3 q.h.
- 745. Introduction to Criminal Investigation 3 q.h.
- 751. Techniques Of Criminal Investigation 3 q.h.
- 752. Evidence 3 q.h.
- 760. Testimony and Courtroom Conduct 3 q.h.

Third, approval of the following new courses:

Corrections Program 701 Probation and Parole 4 q.h. An examination of the theory and practice of probation and parole with juvenile and adult offenders.

Corrections Program 702 Institutional Services in Corrections 4 q.h. An examination of contemporary theory and practice in the administration of juvenile and adult correctional institutions.

Corrections Program 703 Correctional Case Management 5 qh. Prereq: Junior standing. The application of counseling and interviewing techniques and theory to the correctional client. Field and clinical situations are simulated so that the student can gain some experience in interviewing, chronological recording, report writing and oral presentation of cases. Three hours of lecture and six hours of practicum per week.

Corrections Program 800 Research and Theory in Corrections 5 q.h. Prereq: Senior standing. Extensive reading in the literature of the correctional field, with special attention given to contemporary research data and theory in corrections.

Corrections Program 805, 806 Correctional Internship 5, 5, q.h. Prereq: Permission of Instructor. Observational and participatory experiences in correctional agencies under the direction of experienced and qualified correctional personnel. The student will spend 8 hours weekly in the agency. In addition attendance at a 2 hour weekly seminar is required.

These changes would provide for the development of a major in Corrections at Youngstown State University which is strongly recommended to help meet the urgent needs for qualified personnel in this field. These needs have been documented at the national level in the report of the President's Commission on Law Pnforcement

January 3, 1969

NOTE: Courses and course changes approved by Curriculum Committee at their recent meetings. Approved and passed at Senate meeting 1-3-69

and Administration of Justice (see especially, Task Force Report on Corrections) and at the state level in a report prepared by the Ohio Probation and Parole Association.

2
J. Jenkins
Sec. of
Senate

The proposed curriculum is the product of careful study of similar programs at other universities and conforms to the basic recommendations set forth in the report of the Curriculum Study Committee of the Ohio Probation and Parole Association, ("A proposal for an Undergraduate Curriculum for Corrections", 1968) and a report prepared by Dr. Walter C. Reckless of The Ohio State University at the request of the Ohio Board of Regents of Higher Education ("Feasibility of an Undergraduate Curriculum in Corrections for the State-Assisted Universities of Ohio: A Report to the Board of Regents", 1968). The report of the OPPA Curriculum Study Committee received the endorsement of the Ohio Crime Commission and the Ohio Citizens Committee on Crime and Delinquency.

A major in Corrections is offered for students preparing for a career in probation, parole or institutional services with either adults or juveniles. The major consists of a total of 45 quarter hours of courses in Corrections and certain other courses selected on an interdisciplinary basis. It is highly recommended that students majoring in Corrections select a minor in Sociology, Psychology or Law Enforcement.

NOTE: Courses and course changes in Chemistry approved by Curriculum Committee.

Approved and passed at Senate meeting 1-3-69.

Dea Jenkins
SECRETARY OF SENATE

CHEMISTRY changes:

Delete 600; 621; 622; 623; 715 which will be replaced by 845, 846; 797; 809

705 Biochemistry 4 q.h. Change in course number from 631 to, 705. Prereq. 720

706 Chemical Literature 2 q.h. Change in title and change from 3 to 2 q.h.

709 Introduction to Polymer Chemistry 3 q.h. Prereq. 721 and four quarters of college physics. Introduction to polymerization and polymer properties. Change in course title and description

711, 712 Biochemistry 3+3 q.h. Prereq, 603, 721, Biology 502 Combining what was separate listings, changes in prereq. and the two courses must be taken in sequence

719, 720, 721 Organic Chemistry 4+4+4 q.h. Prereq, 517 A systematic study of organic compounds, reactions, and theories, The laboratory includes typical preparations and procedures of analysis. Three hours lecture and three hours laboratory, Must be taken in sequence, Change in course numbers from 625, 626, 627 to 719, 720, 721. Description and course content changed.

722, Organic Chemistry 3 q.h. Prereq. 721 Additional laboratory preparations and techniques. This course is required for all chemistry majors. One hour lecture and six hours laboratory with discussions. Change course number from 628 to 722 and change title from Organic Synthesis and Analysis to Organic Chemistry. Organic chemistry sequence has been changed. The wording of course content has been changed slightly.

723, Organic Analysis 3 q.h. Prereq. Chemistry 722 Qualitative and functional group analysis of organic compounds. Laboratory exercises and discussion of underlying principles. One hour lecture and six hours laboratory with discussions. Change course title from Organic Synthesis and Analysis to Organic Analysis. Content of course has been changed. Prereq. has been changed.

724, Organic Synthesis 3 q.h. Prereq. 722 Preparations of organic compounds and applicable instrumental techniques. One hour lecture and six hours laboratory with discussions. Change course title from Organic Synthesis and Analysis to Organic Synthesis. Content of course has been changed. Prereq. has been changed. Wording of course content has been changed.

729, Inorganic Chemistry I 3 q.h. Prereq. 740 The fundamental principles underlying the structure and properties of the elements and their compounds. Change in course title.

739, 740, 741, Physical Chemistry 4+4+4 q.h. Prereq. Chemistry 603, Physics 601, 602, 603, Mathematics 655 (or concurrent) Principles and applications of physical chemistry. Three hours lecture and three hours laboratory. Must be taken in sequence. Change in description and prereq.

803, 804, Chemical Instrumentation 4+4 q.h. Prereq. 741 The course content and prereq. will remain the same. Change in course title and correction to 4+4 q.h. not 3+3 as in 1968-69 catalog by mistake.

NOTE: All courses and course changes on this page approved by Curriculum Committee at their recent meetings.

All approved and passed at Senate meeting 1-3-69.

Vera Jenkins
SECRETARY OF SENATE

- New Course: 805, Applied Spectroscopy 3 q.h. Prereq. Chemistry 741 or permission of instructor. A study of infrared, ultraviolet, nuclear magnetic resonance, electron spin resonance, mass spectroscopy, and methods of current interest as applied to chemical systems. May be taken for graduate or undergraduate credit. 3 h.c. (3 hours of lecture). The subject matter of Chemistry 805 should be presented to students of chemistry. The material to be presented is not treated in other chemistry courses, University Curriculum Committee approves for undergraduate credit.
- 821, Intermediate Organic Chemistry 3 q.h. Prereq. 722 and 741. An introduction to advanced study in organic reactions and theories. Three lectures a week. Change in title, prereq. and correction to 3 q.h. not 2 as in 1968-69 catalog by mistake.
- 829, 830, Inorganic Chemistry II and III 3+3 q.h. Prereq. 729 and 741. Topics of current interest in inorganic chemistry. Need not be taken in sequence. Change in title and correction of prereq. from error in 1968-69 catalog.
- 836, Chemical Bonding and Structure 3 q.h. Prereq. 741. Applications of various bonding theories to molecular structure. Three hours lecture. Change in title, Description.
- New Course: 845, 846 Biochemical Techniques 2+2 q.h. Prereq. Chemistry 841. Laboratory course designed to illustrate modern biochemical methods such as chromatography, electrophoresis, spectrophotometry, enzyme kinetics and isotopic tracer techniques. Students interested in biochemistry should have some experience with biochemical laboratory techniques. These two courses are listed in the Graduate catalog but not the Undergraduate catalog.

ECONOMICS:

- New Courses: 820, Regional Economic Analysis 4 q.h. Prereq. Principles 601-2-3. A study of the forces that promote or deter the growth of a region and the techniques available for measuring and projection regional development. Major emphasis is placed upon inter and intra regional migration patterns, economic base analysis, shift and share measurement, regional income estimation, input-output techniques, local multipliers and cyclical behavior, and the role of economic and social overhead capital in regional growth.
- New Course: 821, Location Theory 4 q.h. Prereq. 820. An analysis of the economic considerations which do much to explain the locational patterns of individual business firms within regions of the U.S. and of the forces promoting agglomeration of firms. Stress is placed upon the relative importance of material and human resource inputs, the market for outputs, and the quantity and quality of economic and social overhead capital in attracting different types of firms to a region. In addition, the concepts of external and internal economies of scale, intermunicipal cost precipitation, and external costs and benefits are explored in order to approximate the optimum spatial extent for the provision of public goods and services.
- New Course: 822, Seminar in Regional and Urban Economics 4 q.h. Prereq. 820 and 821. Selected readings in the study of the growth of regions in the U.S. Topics discussed include: the theory and strategy of regional growth, cost-benefit analysis as a tool for regional public investment decision making, determinants of the demand for and supply of transportation facilities, and problems in the finance of urban and regional public goods and services.

NOTE: All courses and course changes on this page approved by Curriculum Committee at their recent meetings. (3)
DeJenkins

All approved and passed at Senate meeting 1-3-69.

New Courses: History 730, 731, The Negro in American History 3+3 q.h. Prereq. 601, 602, 603. A historical study of the Negro's role in, and contributions to, the political, social and economic development of the American Society from the Colonial period to the present. The department has for sometime been giving careful consideration to this topic. The need to offer such a course is obvious to meet the needs of an inquiring society. SEC. OF SENATE

New Course: Geology 805, Special Problems in Geology 1 to 5 q.h. Prereq. Consent of the Geology Department Chairman and the instructor. May be repeated once. A study in depth of specific problems in one of the branches of geology. The problem will depend upon the student's interest, qualifications and equipment available. To allow the student more flexibility in determining his course load and to choose the size of problem best suited to his needs. Change from 3 q.h. to 1 to 5 q. h. credit.

English Department requests the dropping of 500-501-502 English Composition, 3+3+3 q.h. which has not been offered in recent years, and the transferring of English 550 Improvement of Adult Reading Ability 2 q.h. to the Psychology Department (with the approval of Dr. Hotchkiss) which now teaches it.

And
Communication

English 600, 601, Introduction to Literature 3+3 q.h. Prereq. Communication 508 or its equivalent. A non-technical, non-historical course in which important contemporary and older works of literature are read and discussed critically for the purpose of increased delight and understanding. The change from a hyphenated course to a comma course is recommended because the objectives originally aimed at with the hyphenated course have not been attained and the requirement that students elect both quarters in sequence has proved inconvenient to students, faculty and administration.

Request to list Linguistics 860, History Of the German Language 3 qh. Prereq. German 602 or equivalent (Identical with German 860), 866. History of the German Language. A study of the historical development of New High German. To permit cross-listing of German 866, History of the German Language, with Linguistics courses, the course number must be changed because there already is Linguistics 866, Comparative Romance Linguistics. German

NOTE: 1-3-69. All approved and passed at Senate meeting 1-3-69

John Jenkins
SECRETARY OF SENATE

English Department requests change of English 751-752-753 History of the English Language 3+3+3 to English and Linguistics 755 Principles of Linguistic Study 5 q.h. Prereq: Communication 508 or its equivalent. Survey of elements of linguistic structure, methods of analysis and description, theoretical models, and of the role of language in human affairs. The present sequence of courses in History of the English Language (English 751-752-753) will be replaced by two 5 credit hour courses to allow better organization of material and greater concentration on Linguistic study.

English and Linguistics 756 History & Structure of English 5 q.h. Prereq: English 755, Principles of Linguistic Study. Survey of the historical development of English language structure and its social context from its origins to the present. ~~Same as for English / Linguistics 755.~~

Drop: English and Linguistics 751-752-753 History of the English Language 3+3+3 q.h.

Change title of English 650 to The American Language because present title when abbreviated in schedule to Modern American is easily and frequently mistaken for a literature course title.

New Course: ⁷¹² Sociology ~~713~~ Archaeology 4 q.h. Prereq: Sociology 612 An introduction to the methods and subject matter of archaeology as it reconstructs paleolithic and prehistoric cultures as inferred from artifacts. The department expects to employ at least one archaeologist by September 1970.

Political Science changes:

740 to be replaced by 743 British Government and Politics 3 q.h. Prereq: Political Science 600 or 601 or 640 An intensive study of governmental institutions and political behavior in the United Kingdom.

744 Government and Politics ^{of France and West Germany} 3 qh. Prereq: Political Science 600 or 601 or 640 A comparative study of governmental institutions and political behavior in France and the Federal Republic of Germany.

New Course: 783 Political Thought IV 3 q.h. Prereq: Political Science 600 or 601 and junior standing. Political theories of the modern period, from Karl Marx to the present. Complete sequence of courses 780, 781, 782.

Psychology changes:

550 Improvement of Adult Reading Ability 2 q.h. is being transferred from English to Psychology which has been providing instructional personnel.

601 General Psychology 4 q.h. Change prerequisite to read Sophomore standing or consent of chairman.

715 Change number to 615 Prereq. C or better in Psychology 601.

730 Change number to 800 to place the course more appropriately in the department curriculum and to enable the course to become a senior level and graduate course at some future date. Prereq: 601 plus 9 additional quarter hours of Psychology or consent of instructor.

NOTE: All approved and passed at Senate meeting 1-3-69.

W. H. Jenkins
SECRETARY OF SENATE

New Course: 815 Individual Testing: Intelligence 4 q.h. Prereq: 710 and consent of instructor. Intensive study of individual intelligence tests including underlying theories and concepts, with classroom practice in proper administration, scoring, and interpretation. Students will be required to participate in practice administration of intelligence testing. The course is vitally needed to provide proper knowledge and understanding of intelligence testing as propaedeutic to advanced work in child and adult guidance and counseling.

Latin changes:

Revision of statement of requirement 1968-69 Catalog (p. 101) first complete paragraph in right-hand column to read: If he has had three years of high school Latin, he takes two of the three quarters of Intermediate Latin (Latin 6C1, 6C2, 6C3), to be chosen in consultation with the Supervisor of Classical Studies. Request also a change in course description: Latin 6C2 and Latin 6C3: Reading of selected Latin poetry and/or prose.

Physics changes:

Reduce 701, 702 from 4+4 a.h. to 3+3 q.h.

New courses:

703 Classical Mechanics 3 q.h. Prereq: Same as present Physics Course #701, 702. Description: Same as present Physics Course #701, 702. Prefer three, 3 hour courses in this sequence instead of the current two, 4 hour courses, to free physics majors on Tue. & Th. for Lab work and to equalize student loads in the Junior year.

704L, 705L Modern Physics Labs. 1+1 q.h. Prereq: Taken concurrently with physics 704, 705. Selected experiments in atomic and nuclear physics. Three hours of lab per week. Scheduling and administrative troubles with present Modern Physics Lab. #707. Request Delete #707 and replace with 704L, 705L.

70C Physics Literature 1 q.h. Prereq: Junior Standing or Consent of Dept. Chairman. A study and discussion of the originals of famous papers in physics. To acquaint the student with the evolution of basic principles in physics, or put another way: to put life into the footnotes of physics texts.

730+73CL, 731+731L, 732+732L Intermediate Electricity & Magnetism 3+1=4
Prereq: Junior standing in the Physics Dept. or consent of the 3+1=4
instructor. Intermediate level Electricity & Magnetism. Lab. work in A.C. circuits, steady state & transients, non linear circuit elements, and transducers. We now have too large a jump from elementary D.C. work in Freshman physics to the Field Theory of our 800 level E & P courses. Need for Intermediate work and Laboratory to fill the gap.

750 Mathematical Physics 3 q.h. Prereq: Math 711 and Physics 702. The Mathematical background and techniques required in the study of classical, quantum, statistical mechanics and in the area of field theory. The need to formalize and organize much of the ad hoc mathematics that is taught in upper division physics courses.

NOTE: All approved and passed at Senate meeting 1-3-69.

Dea Jenkins
SECRETARY OF SENATE

800 Physics Seminar 1 q.h.. Prereq: Senior standing in physics department. The reading of current papers in physics and the presentation of reports on current research both in, and out of the dept. May be repeated once. To help promote a professional attitude in the student toward his subject matter and his career.

Drop 707

Biology changes:

Catalog change specifying Major Requirements for Biology. A major in biology requires 50 quarter hours in the department. Biology 550, 562, 570, 680 and 690 provide a core of subject matter essential for all biologists. These courses are especially designed and are recommended for all biology majors. But students who have taken biology 500, 500L, 501, 501L, and 502, 502L can substitute these three courses for 550, 562 and 570 above but must take 680 and 690. The remaining hours may be chosen by the student from specialized upper division courses in the department. Bio-chemistry and Secondary Education 800 (Special Methods) and Sociology 714, 715 (Physical Anthropology) will be considered as biology courses to meet the 50-hour requirement. Organic chemistry (Chem. 625, 626, 627) will be required of all biology majors. Fundamentals of Physics (501, 501L, 502, 502L, 503, 503L) are strongly recommended.

Chance requested for 500, 501, 502 Principles of Biology 3+3+3 q.h. Prereq: None A comprehensive coverage of basic life science, a course designed primarily to meet science requirement for B.S. in Ed.; B.S. in B.A.; and by enrolling concurrently in laboratory sections 500L, 501L and 502L respectively, B.A. students will satisfy their 12-hour laboratory science requirement. Provides a single biology course which will meet science requirement for all degrees in university.

500L, 501L, 502L Principles of Biology Laboratory 1+1+1 q.h. Prereq: Must be taken concurrently with biology 500, 501, 502 respectively. Laboratory exercises designed to elucidate Biology 500, 501, 502. Students wishing to satisfy science requirement for Bachelor of Arts degree should take Biology 500 and 500L concurrently followed by 501 and 501L and 502-502L. This series adds up to required 12 hours, of laboratory science. Complements our proposed change of 500, 501, 502, a non-lab course. This expands hours to 12 and provides required laboratory.

600, 601 Anatomy and Physiology 5+5 q.h. Prereq: Biology 502. A comprehensive study of the structure and functions of higher organisms with special emphasis on man. Six hours of lecture-laboratory periods each week. Open to health and physical education and home economics majors only. *To replace 600-601-602 and cover material in two instead of three quarters*
Lectures giving student more flexibility in his program
73 Ornithology 4 q.h. Prereq: Biology 502 or 570. Distribution, natural history and economic significance of birds. This is an addition of 2 hours to the existing course because it has been found impossible to cover material in only 2 quarter hours.

*Lectures
Labs
and field
trips*

722 to be renumbered 823 Advanced Genetics 4 q.h. Prereq: Biology 721 and 721L, Modern concepts of the structure of the gene and the mechanism of mutation and gene action. Changing course from 700 to 800 level so that it can be made available as a supporting course for M.S. programs.

.NOTE: All approved and passed at Senate meeting 1-3-69.

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Vera Jenkins
SECRETARY OF SENATE

New Courses:

660 Economic Botany 3 q.h. Prereq: None. Plants that serve useful purpose for man as food, fiber, wood, drugs and ornament -- their economic importance, culture, distribution, use and biological significance. This course will serve a useful purpose in familiarizing non-biologist in significance of plants in his environment.

762 Field Botany 5 q.h. Prereq: Junior or Senior standing. Identification, ecology and significance of local plant species. Students will practice using identification keys under field and herbarium conditions. Lectures and laboratory. This will be a useful course for biology major who will learn basics of plant taxonomy and phylogenetic relations and for the education student who will learn about local flora for future classroom enrichment.

824 Bacterial Physiology 3 q.h. Prereq: Biology 702. Physiological processes of the bacteria. A course that will be useful in master's program in Biology Department.

833 Int. to Vertebrate Physiology 5 q.h. Prereq: 502 or 680. Introduction to basic physical and chemical principles in physiology of nerve conduction, muscle contraction, digestive, respiration, circulation, endocrine systems and kidney function. Lectures and laboratories. Need a laboratory physiology course for biology majors. Such a course is not presently in inventory and should be available to prepare our majors for graduate study.

853 Biometry 4 q.h. Prereq: Consent of Instructor. Collection and treatment of biological data. Lectures and laboratory. Addition of new course which will broaden biology curriculum and provide an upper division course that will be useful in M.S. program.

863 Growth and Differentiation 5 q.h. Prereq: Biology 562. External and internal factors that affect germination, growth, flowering and seed development in plants. Lectures and laboratory. This adds a plant physiology course to further round out botany offerings. It will be offered on alternate years and will probably have enrollment of at least 15 students each time it is given.

872 Protozoology 4 q.h. Prereq: Biology 701. Morphology, phylogeny and bionomics of protozoa. Lectures and laboratory. Addition of a traditional upper division zoology course which will be taught by one of the newly acquired staff members and which is needed in the M.S. program in biology.

874 Helminthology 4 q.h. Prereq: Biology 741. Detailed consideration of parasitic helminths including techniques for collecting, killing, staining and studying parasites. Lectures and laboratories. Addition of traditional zoology course which will enrich biology curriculum and provide a course that will be useful in M.S. Program.

Courses deleted: 516, 518, 602

Courses deleted: Natural Science 518-519, 523, 524, 525.

Course descriptions *in prerequisite* modified slightly: 562, 570, 604, 650, 680, 690, 700, 701, 702, 708, 713, 719, 721, 741, 765, 770, 821, 822

NOTE: All approved and passed at Senate meeting 1-3-69.

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Vera Jenkins
SECRETARY OF SENATE

SUMMARY OF
PROPOSED COURSE CHANGES
IN MATHEMATICS

- (1) Mathematics 571, 572, 673, 674 (5 + 4 + 5 + 4) to replace
Mathematics 551, 552, 653, 654, 655 (5 + 4 + 3 + 3 + 3)

Course Title: Calculus I, II, III, IV

Note: Math 654, 655 will be retained in 1969-70 for current students.

Reason: To complete the Calculus sequence in four quarters instead of five. This is consistent with the majority of schools operating on the quarter system.

- (2) Same change for 571H, 572H, 673H, 674H, the honors sequence

- (3) **New Course** - Math 701 Introduction to Set Theory IV 4 qt. hrs.
(see below prereq. and course description)

Reason: This is an introduction to abstract thinking and to set theory and is intended to bridge the gap between Calculus-type courses and the more abstract mathematics courses. Also the formal course in set theory will eliminate the necessity to introduce the topic in several upper division courses.

- (4) Dropped Courses:

Math 892	Introduction to Secondary School Mathematics	6
Math 894	Fundamental Concepts of Algebra	6
Math 895	Fundamental Concepts of Calculus	6
Math 896	Elementary Functions & Matrix Algebra	6
Math 897	Basic Concepts of Calculus	6
Math 898	Basic Concepts of Probability & Statistics	6

Reason: These courses were offered in the In-Service Institute for Secondary School Teachers. No such institute is now offered.

Math 701 Introduction to Set Theory 4 q.h. Prereq: Mathematics 674 or consent of instructor. Algebra of sets; relations and functions as sets; cardinal and ordinal numbers; the well-ordering theorem and equivalent principles. Emphasis is on logical development of the subject.

NOTE: All approved and passed at Senate meeting 1-3-69.

Health and Physical Education changes:

Vera Jenkins
SECRETARY OF SENATE

500W Physical Activity: Field Hockey 1 q.h. Techniques and rules of field hockey. Basic activity program. Change in course title and description.

New Courses:

501W Physical Activity: Soccer 1 q.h. Techniques and rules of soccer. Basic activity program.

502W Physical Activity: Volleyball 1 q.h. Techniques and rules of volleyball. Basic activity program.

503W Physical Activity: Basketball 1 q.h. Techniques and rules of basketball. Basic activity program.

504W Physical Activity: Softball 1 q.h. Techniques and rules of softball. Basic activity program.

601C Safety and First Aid 2 q.h. Prereq: Approval of Health and Physical Education Department. Accident prevention and first aid procedures, especially for injuries and illness common in the school, home, and community. Emphasis is on injuries common in physical activities. The American Red Cross Manual is followed. Standard, advanced, and instructor's certification are granted upon satisfactory completion. Addition of course in athletic injuries.

602C Prevention and Care of Athletic Injuries 3 q.h. Prereq: Approval of Health and Physical Education Department. Practical and theoretical aspects of treatment of athletic injuries in an athletic program; supplies, training table, therapeutic equipment and techniques in conditioning, taping, and bandaging. To expand the area of athletic injuries in the future training program.

821C Physiology of Exercise 4 q.h. Prereq: Biology 6CC-601-602. Designed to establish a sound basis of physiological principles on the various systems and organs of the body during muscular activity. Requirement: Undergraduate-Graduate Program.

822C Tests and Measurements 5 q.h. Prereq: Senior standing. A study of the various tests in the field of health and physical education, including uses and interpretation of elementary statistical techniques. Requirement: Undergraduate-Graduate Program.