

November 22, 1968

TO: UNIVERSITY SENATE MEMBERS

FROM: VERA JENKINS
Secretary of the Senate

SENATE MEETING: Friday, December 6, 1968 - 4:00 p.m. - AUDITORIUM
IN THE ENGINEERING SCIENCE BUILDING. (Room 273).

AGENDA FOR MEETING:

- 1) Approval of minutes of previous meeting (Friday, November 1)
- 2) Report of Constitution and Bylaws Committee
- 3) Report of Senate Council and other Committees:
 - a) Report of Senate Council (Philip J. Hahn)
 - b) Report of Discipline Committee (William Gutknecht, Jr.)
 - c) Report of Curriculum Committee (Thelma Miner)
- 4) Report by George Letchworth, Director of Counselling Center
- 5) Unfinished Business
- 6) New Business
- 7) Remarks by President Albert L. Pugsley

(AMENDED SUBSTITUTE SENATE BILL NO. 468)

AN ACT

To enact section 3345.21 of the Revised Code relative to the authority of a board of trustees of a state supported college or university to maintain law and order on its campus and to regulate the use of its facilities.

Be it enacted by the General Assembly of the State of Ohio:

SECTION 1. That section 3345.21 of the Revised Code be enacted to read as follows:

Sec. 3345.21. The board of trustees of any college or university which receives any state funds in support thereof, shall regulate the use of the grounds, buildings, equipment, and facilities of such college or university and the conduct of the students, staff, faculty, and visitors to the campus so that law and order are maintained and the college or university may pursue its educational objectives and programs in an orderly manner.

The board of trustees of each such college or university shall adopt regulations for the conduct of the students, faculty, visitors, and staff, and may provide for the ejection from college or university property, suspension or expulsion of a person who violates such regulations. All such regulations shall be published in a manner reasonably designed to come to the attention of, and be available to, all faculty, staff, visitors, and students.

The board of trustees shall provide for the administration and enforcement of its regulations and may authorize the use of special policemen provided for in section 3345.04 of the Revised Code to assist in enforcing the regulations and the law on the campus of the college or university. The board of trustees, or appropriate officials of such college or university when the authority to do so has been delegated by the board of trustees, may seek the assistance of other appropriate law enforcement officers to enforce the regulations and to enforce laws for the preservation of good order on the campus, and to prevent the disruption of the educational functions of the college or university.

The regulations of the board of trustees shall not restrict freedom of speech nor the right of persons on the campus to assemble peacefully.

NOTE: Approved and passed at Senate meeting 12-6-68.

v. Jenkison
cc

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

Note: Four copies of each application should be submitted to the chairman of the University Curriculum Committee:

1. For the Committee files
2. To be returned to the Departmental Chairman or Supervisor
3. To be sent to the Dean of the School
4. To be sent to the Editor of the Catalog

TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Mech. Engr.	892	Control Theory	4
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: CE 718 (Fluid Mechanics I), EE 715 (Electrical Devices), Math 711 (Higher Mathematics for Engineers & Physicists I and II) or advisor's approval.

DESCRIPTION: Introduction to the principles of automatic control of electromechanical and hydraulic systems using Laplace transform methods. Discussion of system stability. (Not for Electrical Engineering majors).

REASONS FOR PROPOSAL: To provide a much needed Mechanical Engineering elective in the controls area, emphasizing mechanical engineering problems.

Date Nov. 26, 1968

Signed *Frank A. ...*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *W. Jenkison*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 6, 1968

Signed *W. Jenkison*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

(Dr. Jenkins Sec.)

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- - YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new~~ or changed course for approval: to increase the credit content.

Mech. Engr.	870	Mechanical Vibrations	4
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: CE 615, ME 741, Math 711

DESCRIPTION: The behavior of the lumped system with one and two degrees of freedom including applications (such as: vibration isolation, Seismic Instruments, etc.). Methods of analyzing lumped systems with many degrees of freedom.

REASONS FOR PROPOSAL: There was insufficient time in the three (3) quarter hour course to teach the material normally covered in a first course in Vibrations. Also, Vibrations II is being dropped from the undergraduate curriculum.

Date Nov. 36, 1968

Signed *Frank A. ...*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *W. J. ...*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma S. ...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68. *(v. Jenkings sec.)*

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new or changed~~ course for approval: to be dropped from the curriculum:

Mech. Engr.	871	Mechanical Vibrations II	3
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: CE 615, Math 711

DESCRIPTION: The analysis and isolation of free and forced vibrations for systems having one degree of freedom. The free vibrations of systems having several degrees of freedom are introduced.

REASONS FOR PROPOSAL: A new course (proposed) will include the material previously covered in this course. This course will therefore be dropped.

Date Nov. 26, 1968

Signed *Frank A. ...*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *...*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 6, 1968

Signed *...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

(v. Jenkins)
Sec.

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new or changed~~ course for approval: to be dropped from the curriculum:

Mech. Engr.	871L	Mechanical Vibrations II Laboratory	1
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Taken concurrently with ME 871

DESCRIPTION: Experiments involving mechanical systems having two degrees of freedom and vibrations in a continuous medium. Analog computer simulations of systems having several degrees of freedom.

REASONS FOR PROPOSAL: This laboratory is to be replaced by a new laboratory course to accompany the new (proposed) vibration course. This course will therefore be dropped.

Date Nov. 26, 1968

Signed *Frank A. Aba*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *W. C. Carson*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 6, 1968

Signed *Helma S. Giner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

*(C. Jenkins)
Sec.*

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Mech. Engr.	821	Heat Transfer II	4
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: ME 720 - Heat Transfer I

DESCRIPTION: A study of the fundamental principles of heat transfer by convection and radiation. Empirical relations for forced and natural convection systems. Condensation and boiling heat transfer. Heat exchangers. Radiation problems including the influence of both the material properties and the ~~REASONS FOR PROPOSAL~~ geometrical arrangement of the bodies involved.

REASONS FOR PROPOSAL: Replaces present ME 721 - Heat Transfer II- 3 hr. One hour added credit to cover added subject matter.

Date NOV 26 1968

Signed *Frank A. Dika*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *W. C. Harrison*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helena M. Mises*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Mech. Engr.	804	Applied Thermodynamics	4
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: ME 602 - Thermodynamics III

DESCRIPTION: Application of the principles of Thermodynamics to power, refrigeration, and energy conversion devices.

REASONS FOR PROPOSAL: Replaces present ME 703 - Thermodynamics IV - 3 hr. One hour added credit to cover added subject matter.

Date Nov. 26, 1968

Signed *Frank A. Wilson*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *W. J. Ferguson*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma L. Mires*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

*(v. pentings)
etc.)*

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new ~~exchanged~~ course for approval to be dropped from the curriculum:

Department	Course Number	Course Title	Credit Hours
Mech. Engr.	882	Engineering Analysis II	3

PREREQUISITES: ME 881 - Engineering Analysis I
Math 711 - Diff. Equations

DESCRIPTION: Extension of Engineering Analysis I to engineering problems involving distributed systems, especially in the fields of thermal conduction and mechanical vibrations. Formulation of partial differential equations and solution by analytical and numerical methods.

REASONS FOR PROPOSAL:

It is proposed that ME 881 be increased from 3 to 4 hrs and that this course be dropped. This also reduces some duplication in the follow up graduate course.

Date Nov. 26, 1968

Signed *Frank Aliska*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *M. G. Peterson*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma J. Gines*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68. *(original file)*

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Mech. Engr.	881	Engineering Analysis	4
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Mathematics 710

DESCRIPTION: An integration of the fundamental facts, principles, and laws of mathematics, science, and engineering and their utilization in a rigorous training in methods of analysis and solutions of engineering problems.

REASONS FOR PROPOSAL: ME 881 and ME 882 are proposed to be combined into one course.

Date Nov 26, 1968

Signed *Frank Altko*
 /Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *W. J. Kasey*
 Chairman, Curriculum Committee
 (School)

approved not approved

Date Dec. 6, 1968

Signed *Helma J. Miner*
 Chairman
 University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

(Dr. Jenkins see)

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Mech. Engr.	851	Strength of Materials IV	4

PREREQUISITES: ME 750 Strength of Materials III

DESCRIPTION: Introduction to plasticity, creep, impact and fatigue of metals.

REASONS FOR PROPOSAL: Increase of one credit hour over present 3 hrs so as to permit sufficient time for material coverage.

Date 26/1968

Signed *Frank M. Shea*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *W. J. Harrison*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma J. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

(V. Jenkins sec.)

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Mech. Engr.	830	Fluid Mechanics II	4
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: CE 718 (Fluid Mechanics I), Mathematics 711

DESCRIPTION: The theory of one-dimensional compressible flow, The control volume approach to the conservation of mass, energy, and momentum integral equations. An introduction to differential analysis and non-viscous flow theory.

REASONS FOR PROPOSAL:

Not sufficient time to cover material adequately, therefore 1 credit hour is added.

Date Nov. 26, 1968

Signed *Frank A. ...*
Chairman or Supervisor

Approved not approved

Date November 26, 1968

Signed *Alvin De ...*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma L. Mines*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68. *(V. Jenkins)*

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Mech. Engr.	821L	Heat Transfer II Laboratory	1
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Taken concurrently with ME 821 (Heat Transfer II, proposed course)

DESCRIPTION: Thermocouple and optical pyrometer temperature measurements. Experiments in heat transfer by conduction, convection, and radiation.

REASONS FOR PROPOSAL: Replaces ME 721L and has same description. ME 721 is also to be changed to ME 821.

Date Nov 26, 1968

Signed *Frank M. Ba*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *M. J. ...*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma L. Mies*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new~~ **changed** course for approval:

(From 3 c.h. to 4 c.h.)

<u>Business Organization</u>	<u>#820</u>	<u>Production Control</u>	<u>4</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Business Organization #819.

DESCRIPTION: An analysis of functions and techniques necessary in planning, routing, scheduling, and controlling flow of materials through various production processes and operations.

REASONS FOR PROPOSAL:

Production control is a quantitative course where the teacher should use a statistical and probabilistic approach. 3 quarter hours are not enough to complete the basic requirements of the course.

Date 10.31.1968

Signed *[Signature]*
Chairman or Supervisor

approved not approved

Date 11.20.68

Signed *[Signature]*
Chairman, Curriculum Committee
(School)

approved not approved

Date 12.6.68

Signed *[Signature]*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Merchandising</u>	<u>530</u>	<u>Introduction to Mdsg. Techniques</u>	<u>5</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: None

DESCRIPTION: This course is designed to provide complete and detailed **explanation** of the many Merchandising problems. The primary objective of the course is to help the student understand and apply Merchandising Techniques to practical situations.

REASONS FOR PROPOSAL: A new course to be required in the **Merchandising** Technology Curriculum for the Technical & Community College.

Date June 14, 1968

Signed *J. J. Daidrich*
Chairman or Supervisor

approved not approved

Date June 30, 1968

Signed *J. M. ...*
Chairman, Curriculum Committee
(School)

approved not approved

Date Nov. 6, 1968

Signed *Helma L. Miner*
Chairman
University Curriculum Committee

THE YOUNGSTOWN STATE UNIVERSITY SCHOOL OF BUSINESS ADMINISTRATION

MANAGING DEPARTMENT

CHANGES IN COURSES

<u>NUMBER</u>	<u>OLD COURSES</u> <u>TITLE</u>	<u>QUARTER</u> <u>HOURS</u>	<u>NUMBER</u>	<u>NEW COURSES</u> <u>TITLE</u>	<u>QUARTER</u> <u>HOURS</u>
	New Course.....		<i>Exp B30</i>	Introduction to Mdsy Techniques.	5
624	Marketing.....	4	624	Marketing.....	5
831	Executive Protocol.....	3	831	Executive Protocol.....	2

1

NOTE: Approved and passed at Senate meeting 12-6-68.

Y. Jenkins
SECRETARY OF SENATE

--- -- - - YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Merchandising</u>	<u>624</u>	<u>Marketinn</u>	<u>5</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: **None**

DESCRIPTION: A general survey, with attention to **marketing** functions, policies, and marketing institutions involved in the distribution of goods and services, product development and pricing, marketing costs, **consumer** motivation and buying habits, and government regulations.

REASONS FOR PROPOSAL:

The rapidly changing nature of the discipline and addition of general information this beginning course needs to be expanded from 4 hours to 5 hours credit to better cover the subject **matter**.

Date Nov. 25, 1968

Signed *E. T. Deindrick*
Chairman or Super-visor

approved not approved

Date Nov. 27, 1968

Signed *E. M. E. ...*
Chairman. Curriculum Committee
(school)

approved not approved

Date Dec. 6, 1968

Signed *Helma S. ...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Merchandising</u>	<u>831</u>	<u>Executive Protocol</u>	<u>2</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Junior Standing

DESCRIPTION: A study of the importance of grooming, manners, dress, physical fitness and personal relations necessary in today's business world. Emphasis is placed on the courtesies and habits that help develop young men and women into executive material.

REASONS FOR PROPOSAL: There does not seem to be a need for 3 quarter hours to cover the material in the course. The course could be covered in 2 quarter hours.

Date November 25, 1968

Signed *[Signature]*
Chairman or Supervisor

approved not approved

Date Nov 27, 1968

Signed *[Signature]*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec 6, 1968

Signed *[Signature]*
Chairman
University Curriculum Committee

Received 10-18-68
A+S Comm.

NOTE: Approved and passed by Senate at meeting
12-6-68.

V. J. ...
SECRETARY OF SENATE

- YOUNGSTOWN SIATC UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Physics (Astronomy)</u>	<u>800, 801, 802</u>	<u>Observational Astronomy</u>	<u>3+3+3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Mathematics 655 and Physics 603

DESCRIPTION: Observational techniques in Astronomy. The University telescopes and auxiliary equipment will be used.

REASONS FOR PROPOSAL: We want to change the name and add one quarter to the course presently called Problems in Astronomy. In the past it has been taught as a conference course (Astronomy 400). Now, because of an increased number of students, it will be taught as a normal class.

Date September 3, 1968

Signed *Frank McKel...*
Chairman or Supervisor

approved not approved

Date December 2, 1968

Signed *James W. Kuriasis*
Chairman, Curriculum Committee
(School)

College of Arts and Sciences

approved not approved

Date Dec. 6, 1968

Signed *Helma ...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>History</u>	<u>777,778</u>	<u>History</u>	<u>O the R</u>	<u>U</u>	<u>S</u>	<u>E</u>	<u>3+3</u>
Department	Course Number	Course Title	I,II				Credit Hours

PREREQUISITES: History 651,652,653

DESCRIPTION: A detailed study of the history of the Russian Empire from the establishment of the Romanov dynasty to the dissolution of the Empire.

REASONS FOR PROPOSAL: The Russian History course 777,778,779, as currently listed in the catalog, is being divided. No additional hours are being assigned nor is there a major change.

Date 11/14/68

Signed *John G. Eubank*
Chairman or Supervisor

approved not approved

Date Dec. 2, 1968

Signed *James W. Kriazis*
Chairman, Curriculum Committee
(School)

College of Arts and Sciences

approved not approved

Date Dec. 6, 1968

Signed *Helma J. Givens*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

E. Jenkins

YOUNGSTOWN STATE UNIVERSITY

SECRETARY OF SENATE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>History</u>	<u>779</u>	<u>History of the Soviet Union</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: 651,652,653

DESCRIPTION: A Study of the history of the territories under the Bolshevik regime from the proclamation of the Bolshevik state to the present time.

REASONS FOR PROPOSAL: Just a clarification of the current listed courses History 777, 778, 779.

Date 11/14/68

Signed *Harold G. Embert*
Chairman or Supervisor

approved not approved

Date December 2, 1968

Signed *James W. Kirianis*
Chairman, Curriculum Committee
(School)

College of Arts and Sciences

approved not approved

Date Dec. 6, 1968

Signed *Helma S. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68

Engelbrecht
SECRETARY OF SENATE

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4. To be sent to the Editor of the Catalog

TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ^{Deleted} ~~new or changed~~ courses for approval:

Department	Course Number	Course Title	Credit Hours
	703	Cost Accounting I	3
	704	Cost Accounting II	3
Accounting	705	Cost Accounting III	3

PREREQUISITES:

DESCRIPTION:

REASONS FOR PROPOSAL:

Replaced by Accounting 703-Basic Cost Accounting and Accounting 704-Advanced Cost Accounting which are courses of 4 credit hours each.

Date November 24, 1968

Signed *Richard M. Mager*
Chairman or Supervisor

approved not approved

Date Nov 27 1968

Signed *Philip L. E...*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma J. Miner*
Chairman
University Curriculum Committee

NOTE: **Approved**

passed **at senate meeting 12-6-68.**

+ *F. ...*

SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

Note: Four copies of each application should be submitted to the chairman of the University Curriculum Committee:

1. For the **Committee** files
2. To be returned to the Departmental Chairman or Supervisor
3. To be sent to the Dean of the School
4. To be sent to the Editor of the Catalog

TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new~~ **changed** course for approval:

Department	Course Number	Course Title	Credit Hours
Accounting	713	Basic Cost Accounting	4

PREREQUISITES:

C or better in Elementary Accounting 603

DESCRIPTION: The principles of cost-finding for manufacturing accounts, including the three fold division of costing: material accounting, payroll records, and the recording and applying of manufacturing expense. Job order and process costs are covered, with emphasis on budgeting as a means of overhead control. Appropriate problems and practice sets are used.

REASONS FOR PROPOSAL:

To replace the following courses, thereby, permitting a more logical division of course material and to reduce the hours required for an accounting major.
Cost Accounting I, II, III. 3 Credit Hours

Date November 24, 1968

Signed *Richard M. ...*
Chairman or Supervisor

approved not approved

Date 12 27 68

Signed *[Signature]*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 6, 1968

Signed *[Signature]*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

Z. Jenkins
SEC TARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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4. To be sent to the Editor of the Catalog

TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new or~~ changed course for approval:

<u>Accounting</u>	<u>714</u>	<u>Advanced Cost Accounting</u>	<u>4</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

Accounting 713 -Basic Cost Accounting
C or better in Basic Cost Accounting

DESCRIPTION:

A continuation of Accounting ~~303~~⁷⁰³, covering estimating, standard, distribution, differential, and by-product costing, emphasis on the use of cost data as a means of managerial control.

REASONS FOR PROPOSAL:

To replace the following courses, thereby, permitting a more logical division of course material and to reduce the hours required for an accounting major.

Cost Accounting I, 11, III. 3 Credit Hours —

Date November 24, 1968

Signed *Richard M. Mays*
Chairman or Supervisor

approved not approved

Date 2-7-1967

Signed *E. J. S.*
Chairman, Curriculum Committee
(School)

approved not approved

Date DEC. 6, 1968

Signed *William H. Mires*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

E. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Accounting</u>	<u>709</u>	<u>Managerial Accounting</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

Accounting 603

DESCRIPTION: An approach to the use of accounting information for managerial control and planning in business. Areas covered in the course include the elementary principles of cost accounting, analysis of financial data, price-level concepts, cash-flow and working capital concepts, consolidations, and budgeting.

REASONS FOR PROPOSAL:

Replaces deleted courses accounting 719-720, Managerial Accounting I and II.

Date November 24, 1968

Signed *Richard M. Myers*
Chairman or Supervisor

approved not approved

Date Dec 27, 1968

Signed *E. P. S.*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec 6, 1968

Signed *[Signature]*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

W. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new or changed~~ ^{Deleted} course for approval:

<u>Accounting</u>	<u>719</u>	<u>Managerial Accounting I</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

DESCRIPTION:

REASONS FOR PROPOSAL:

Courses are no longer offered. Other courses in the current curriculum have replaced this course.

Date November 24, 1968

Signed *Richard M. Moore*
Chairman or Supervisor

approved not approved

Date Dec 27 1968

Signed *Ed J. ...*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma S. Myers*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

[Signature]
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new or changed~~ ^{Deleted} course for approval:

<u>Accounting</u>	<u>720</u>	<u>Managerial Accounting TT</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

DESCRIPTION:

REASONS FOR PROPOSAL:

Courses are no longer offered. Other courses in the current curriculum have replaced this course.

Date November 24, 1968

Signed *[Signature]*
Chairman or Supervisor

approved not approved

Date

Signed *[Signature]*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *[Signature]*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. J. ...
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~XXXXXXXXXXXX~~ Deleted ~~XXXXXXXXXXXX~~ course for approval:

Department	Course Number	Course Title	Credit Hours
<u>Accounting</u>	803	Federal Taxes I	3
	804	Federal Taxes II	3
	805	Federal Taxes III	3

PREREQUISITES:

DESCRIPTION:

REASONS FOR PROPOSAL:

Replaced by Accounting 803-Federal Taxes I and Accounting 804-Federal Taxes II which are courses with 4 credit hours each.

Date November 24, 1968

Signed *Richard M. Meyer*
Chairman or Supervisor

approved . not approved

Date 11 27 1968

Signed *E. S. ...*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 10, 1968

Signed *Helma S. Meyer*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

v. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Accounting</u>	<u>807</u>	<u>Auditing</u>	<u>4</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

Accounting 704 and 801.

C or better in Accounting 704 and 801. 5 q. h.

DESCRIPTION:

Auditing practices and procedures are introduced and related to problems encountered in actual practice. A short audit case is worked through by the student.

REASONS FOR PROPOSAL:

Reduce credit hours for Accounting 807 - Auditing from 5 credit hours to 4 credit hours.

Date November 24, 1968

Signed *Richard M. Meyer*
Chairman or Supervisor

approved not approved

Date Dec 29, 1968

Signed *W. J. ...*
Chairman, Curriculum Committee (school)

M approved not approved

Date Dec. 6, 1968

Signed *Helena ...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68. *E. J. Miller*

YOUNGSTOWN STATE UNIVERSITY SECRETARY OF SENATE

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

Deleted

I wish to submit the following ~~new or changed~~ course for approval:

Accounting	808	Auditing Practice	3
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

DESCRIPTION:

REASONS FOR PROPOSAL:

Course has been discontinued in order to reduce the hours required for an Accounting Major.

Date November 24, 1968

Signed *Richard M. Mager*
Chairman or Supervisor

approved not approved

Date Nov. 27, 1968

Signed *E. J. Miller*
Chairman, Curriculum Committee (School)

approved not approved

Date Lief-6, 1968

Signed *Thomas J. Miller*
Chairman
University Curriculum Committee

NOTE: Approved and passed at senate meeting 12-6-68.
YOUNGSTOWN STATE UNIVERSITY

V. J. Jenkins
SECRETARY OF SENATE

~~Application For a New Or Changed Course~~

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Accounting	813	Federal Tax - Theory	4

PREREQUISITES:

Junior Standing

DESCRIPTION:

The principles underlying our income tax laws. Emphasis is placed on items included or excluded in determining income subject to tax; sales or exchanges; basis for determining gains or losses; capital assets and treatment of capital gains and losses by all taxpayers; business deductions including bad debt losses, operating losses, depreciation, depletion, installment sales; special problems affecting corporations, capital changes and securities.

REASONS FOR PROPOSAL:

To replace the following courses, thereby, permitting a more logical division of course material and to reduce the hours required for an Accounting Major: Accounting 803-Federal Taxes I - 3 credit hours; Accounting 804-Federal Taxes II - 3 credit hours; Accounting 805-Federal Taxes III- 3 credit hours.

Date November 24, 1968

Signed *Richard M. Johnson*
Chairman or Supervisor
 approved not approved

Date Nov 27 1968

Signed *J. M. I. ...*
Chairman, Curriculum Committee
(School)

Date Dec. 6, 1968

approved not approved
Signed *[Signature]*
Chairman
University curriculum' Committee

NOTE: Approved and passed at Senate meeting 12-6-68.
YOUNGSTOWN STATE UNIVERSITY

E. Jenkins
SECRETARY OF SENATE

~~Application For a New Or Changed Course~~

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Accounting	814	Federal Tax-Practice	4

PREREQUISITES: C or better in Accounting 813

DESCRIPTION:

Emphasis is placed upon special areas of tax law as it pertains to partnerships, estates and trusts, gift taxes, estate taxes and payroll taxes. The student is trained in researching tax law; the student prepares tax returns on official tax forms.

REASONS FOR PROPOSAL:

To replace the following courses, thereby, permitting a more logical division of course material and to reduce the hours required for an Accounting Major: Accounting 803-Federal Taxes I - 3 credit hours; Accounting 804-Federal Taxes II-3 credit hours; Accounting 805-Federal Taxes III-3 credit hours.

Date November 24, 1968

Signed *Richard M. Mahan*
Chairman or Supervisor

approved not approved

Date 12 7 1968

Signed *E. Jenkins*
Chairman, Curriculum Committee
(School)

approved not approved

Date 12-6-68

Signed _____
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

D. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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- 1. For the Committee files
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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new or changed~~ ^{Deleted} course for approval:

Accounting	815	Systems and Procedures	3
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

DESCRIPTION:

REASONS FOR PROPOSAL:

Course has been discontinued in order to reduce the hours required for an accounting major.

Date November 24, 1968

Signed *Richard M. Meyer*
Chairman or Supervisor

approved not approved

Date Nov 27 1968

Signed *Richard M. Meyer*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 6, 1968

Signed *Helena L. Mires*
Chairman
University Curriculum Committee

NOTE: Approved and passed at-Senate meeting 12-6-68.

R. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

Note: Four copies of each application should be submitted to the chairman of the University Curriculum Committee:

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Accounting Department	816 Course Number	Budgetary Control Course Title	3 Credit Hours
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PREREQUISITES:

Accounting 704 and 801

DESCRIPTION:

816. Budgetary Control. Compilation and preparation of budget data, for managerial and administrative purposes. Various types of budgets are prepared and selected problems of budgeting worked. Prereq.: Accounting 704 and 801. 3 h.c.

REASONS FOR PROPOSAL:

To replace the following courses:

Accounting 816 Introduction to Budgeting
Accounting 817 Budget Applications and Control.

Date November 24, 1968

Signed *Richard M. Johnson*
Chairman of Supervisor

approved . not approved

Date Dec 2, 1968

Signed *[Signature]*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 6, 1968

Signed *[Signature]*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

v. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new or changed~~ ^{Deleted} course for approval:

<u>Account</u>	<u>816</u>	<u>Introduction to Budgeting</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours
	<u>817</u>	<u>Budget Application and Control</u>	<u>3</u>

PREREQUISITES:

DESCRIPTION:

REASONS FOR PROPOSAL:

Replaced by Accounting 816 Budgeting which is 3 hours credit.

Date November 24, 1968

Signed *Richard M. Moyer*
Chairman or Supervisor

approved not approved

Date 27 1968

Signed *J. L. ...*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 5, 1968

Signed *Helma ...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Accounting</u>	<u>851</u>	<u>Business Readings and Applications</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

Accounting 801.

DESCRIPTION:

Individual Readings and Research in Accounting Problems. The student choose special topics beyond the required readings and prepares papers on these topics for the benefit of the group.

REASONS FOR PROPOSAL:

Change course title from Accounting 851-Seminar to the above title. Also change credit hours from 1 or 2 to 3 credit hours.

Date November 24, 1968

Signed Richard M. Meyer
Chairman or Supervisor

approved not approved

Date Dec. 23, 1968

Signed E. M. S. ...
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 16, 1968

Signed Helma J. Gines
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

*(v. Jenkins)
Sec.*

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Mech. Engr.	804L	Applied Thermodynamics Laboratory	1
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Taken concurrently with ME 804 (also proposed)

DESCRIPTION: Experiments involving vapor power and refrigeration cycles. Analysis of fossil fuels.

REASONS FOR PROPOSAL: Replaces ME 703L and has the same course description. ME 703 is also to be changed to ME 804.

Date Nov. 26, 1968

Signed *Frank A. Br...*
Chairman or Supervisor

approved not approved

Date November 26, 1968

Signed *M. J. ...*
Chairman, Curriculum Committee (School)

approved not approved

Date Dec. 6, 1968

Signed *Alvin S. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Chemical Engr.</u>	<u>883</u>	<u>Mathematical Methods</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

Chem. Engr. 880
Math 710

DESCRIPTION:

REASONS FOR PROPOSAL: Course is to be deleted to cut down total number of hours presentally required and allow for the addition of new required and elective courses.

Date November 18, 1968

Signed *Paul E. Supendall*
Chairman or Supervisor

approved not approved

Date 19 Nov 68

Signed *M. J. Chasimov*
Chairman, Curriculum Committee
(School)

approved **a** not approved

Date Dec. 6, 1968

Signed *Helma S. Niese*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Serkine
SEC ARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Elec. Engr.</u>	<u>714</u>	<u>Electron Devices & Circuits</u>	<u>3 a.h.</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Elec. Engr. 713

DESCRIPTION: Theory and Application of semiconductors, transistors, photoelectric, vacuum and gas filled tubes. Study of amplifiers, oscillators, magnetic amplifiers, filters and circuits used in electronics. (Not open to students majoring in Electrical Engineering.)

REASONS FOR PROPOSAL:

To have a more accurate description of the course content.

Date Feb. 19, 1968

Signed *Walter S. Simon*
Chairman or Supervisor

approved not approved

Date 20 Nov 68

Signed *M. G. Vasagron*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helma S. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Elec. Engr.</u>	<u>714 L</u>	<u>Electron Devices and Circuits Lab. 1 q.h.</u>	
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Concurrently with 714

DESCRIPTION: To be taken with Electrical Engineering 714

REASONS FOR PROPOSAL: To have title conform with that of 714.

Date Jan 19, 1967

Signed *William J. Simon*
Chairman or Supervisor

approved not approved

Date Dec 20, 1968

Signed *W. J. Simon*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 4, 1968

Signed *W. J. Simon*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Elec. Engr.</u>	<u>715</u>	<u>Electrical Devices</u>	<u>3 g.h.</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Elec. Engr. 713

DESCRIPTION: Introduction to the basic principles of analysis of electro-mechanical devices, study of automatic feedback control and instrumentation. The approach is organized to extend the circuit analysis concepts introduced in the prerequisite course. (Not open to students in Electrical Engineering.)

REASONS FOR PROPOSAL:

To have a more accurate description of the course content. The prerequisite was changed to allow some engineering curriculums to only require two of the three electrical courses available for non-electrical engineering majors.

Date 11-19-1968

Signed *Walter Jordan*
Chairman or Supervisor

approved not approved

Date 20 Nov 68

Signed *M. J. Henderson*
Chairman, Curriculum Committee (school)

approved not approved

Date Dec., 1968

Signed *Helma S. Miners*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Met. Engr.</u>	<u>Revised Curriculum</u>		
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

Please see attached sheets

DESCRIPTION:

Please see attached sheets

REASONS FOR PROPOSAL:

To improve the Met. Engr. curriculum and to bring it in line with similar curricula in other universities and to support the graduate program in our department.

Date November 13, 1968

Signed *J. Howard*
Chairman or Supervisor

approved not approved

Date November 14, 1968

Signed *M. J. ...*
Chairman, Curriculum Committee
(School)

approved not approved

Date Nov. 16, 1968

Signed *Helma S. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

COURSES IN METALLURGICAL ENGINEERING

- 601 Introduction to Material Science I
Discussions of the ~ ~ selectronic structure and properties of materials, theory of binding in solids including metals, alloys, semi-conductors, ceramic, and plastic materials: electrical and magnetic properties of materials crystallography. Prerequisite Chem 517 3 a.h.
- 632 Introduction to Material Science II
Discussions of the elastic and plastic properties of ~ a t - erials; ductile and brittle behavior of metals, plastic deformation; elementary ideas of dislocations and their basic properties; atrain hardening. Prerequisite Met. Engr. 601 3 a.h.
- 603 Introduction to Material Science III
Phase equilibria and phase diagram. Kinetics of phase changes Industrial Metallurgy and Structural Materials. Prerequisite Met. Engr. 602 3 a.h.
- 614-615 Structure and Properties of Materials I & II
Structure of pure metals, ferrous, a ~ non-ferrous alloys and their correlation with the previous history, heat treatment and physical properties. (1 hour Lecture + 3 hours Laboratory) Prerequisite Met. Engr. 603 (2+2) a.h.
- 620-621 Chemical Principles of Material Science I, II
Discussion of the application of physico-chemical principles to metallurgical or materials problems. Prerequisite Chem 517 (3+3) a.h.
- 630-631-632 Principles of Extractive Metallurgy I, II, III
Fundamentals of extractive metallurgy and ~ ~ elurgical processes; general classification of ores and principles of ore dressing; treatment of concentrates, hydrometal- lurgical and pyrometallurgical processes, fluxes and slags; production of metal; refining of crude metal.
Ferrous production metallurgy; concentration of ores; charge calculation; blast furnace - its operations; chemistry of the process; open hearth processes. Elec- tric smelting of ores, casting of ingots.
Non-ferrous production metallurgy. Mineral beneficiation smelting refining, and casting of non-ferrous metals.
Prerequisite Chem 517 (3+3+3) a.h.
- 650 Atomic and molecular structure of materials
Discussions of the atomic structure and molecular struc- tures of materials with particular emphasis on the energy levels and material properties. Prerequisite Chem 517, Math 655, Physics 602 3 a.h.

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins

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- 730-731-732 Metallography, Heat treatment, and Pyrometry I, II, III
Laboratory experiments to determine the effects of heat treatment on the structure, physical and mechanical properties of ferrous and non-ferrous alloys. (1 hour lecture + 3 hours Lab)
Prerequisite Met. Engr. 632 (2+2+2) a.h.
- 740-741 Mechanical Working and Its Effects on Materials I, II
General discussion of the different types of mechanical working processes; Rolling, forging, pressing, extrusion, wire drawing, etc: their effects on material properties; fracture mechanics; Effect of strain rate and temperature on materials properties (1 hour lecture + 3 hour Laboratory)
Prerequisite Met. Engr. 632 (2+2) a.h.
- 780 Casting, Welding, Solidification
General discussion of the engineering aspects of welding and solidification of ferrous and non-ferrous alloys.
Prerequisite Met. Engr. 603, 611, 632 3 a.h.
- 781 Powder Metallurgy
Scope of powder metallurgy, production of powders, sintering of powders, diffusion bonding; basic theories, application
Prerequisite Met. Engr. 603, 611, 632 3 a.h.
- 782 Phase Diagrams
Discussions and interpretation of phase diagrams of multicomponent system. Prerequisite Met. Engr. 793 3 a.h.
- 783 Ferrous and Non-ferrous Alloys
Basic scientific principles and theories applied to the design and heat treatment of alloys. Constitution, microstructure, heat treatment, phase distribution and properties of ferrous and non-ferrous alloys. Prerequisite Met. Engr. 632 3 a.h.
- 784 Crystalline Solids
Discussion of crystallography Point Lattice and space lattices
Prerequisite Met. Engr. 650 3 a.h.
- 791-792-793 Physical Metallurgy I, II, III
Review of atomic and nuclear structure of materials. Theory of solids; Advanced discussion on electrical conductivity, magnetic properties and thermal properties of materials, different types of solids.
Elastic and plastic properties of materials: Modes of plastic deformation; slip & twinning; quantitative discussion on deformation mechanism; dislocation theories and their application. Phase diagrams and kinetics of phase transformation; theoretical treatment of nucleation and growth processes; diffusion
Prerequisite Met. Engr. 621, 632, 650 (3+3+3) a.h.
- 791L-792L-793L Physical Metallurgy Lab I, II, III
Laboratory experiments to illustrate the theories presented in Metallurgical Engineering 791, 792, 793 Experiments on Resistivity, point defects, dislocations, recovery, recrystallization and grain growth, phase changes in solids. Determination of

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phase diagrams, etc. Prerequisite Met. Engr. 791, 792, 793 or
concurrent (1+1+1) a.h.

815-816 Particle Interaction I & II

Properties of radioactive particles. Interactions of nuclear particles with materials. Principles of detection, Applications to Engineering materials. (Lecture + Lab) Prerequisite Met. Engr. 793 (3+3) a.h.

817 Management of nuclear By-Products

Sources and characteristics of radioactive materials. Principles and determination of tolerance; Standards and regulations; Protection from side effects Prerequisite Met. Engr. 916 or concurrent 1 a.h.

530,831, 835 Introduction to Nuclear Materials I & II & III

Nuclear materials - their fission and fusion; classification of reactors; general theory, design and control of reactors; Control systems; Instrumentation
Kinetics and dynamic behavior of nuclear reactors; comprehensive theory and design; Reactor stability under operating conditions; Neutron kinetics and Perturbation theory; nuclear heat generation and removal; selection of material; Production & Processing of nuclear materials. Prerequisite Met. Engr. 793 (3+3+3) a.h.

840 Modern Research Techniques

The aim of this course is to familiarize the students with the "tools" of experimental metallurgy. Prerequisite Met. Engr. 793 1 a.h.

Introduction to Polymer Science

Discussions of Polymer materials - it! particular emphasis on their characteristics Bonding mechanism and composition Prerequisite Met. Engr. 733 3 a.h.

852- 353 Advanced Engineering Materials (Non-Metallic) I, II

Discussions on ceramic material; components and ceramets with special emphasis on atomic bonding; Structure of crystalline and non crystalline solids; diffusion; grain growth Sintering and micro structure. Prerequisite Met. Engr. 733 (3+3+3) a.h.

854 Advanced Engineering Materials (Non-Metallic) I,II

Different types of glasses. Physical and mechanical properties; structure; volume and shear flow; glass-metal interface. Prerequisite Met. Engr. 793

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- 860 Mechanical Behavior of Materials
Elastic and Plastic behaviors of materials under stress; theoretical discussions of theory of elasticity; theory of plasticity and laws of plasticity; applications of the theories on the various deformation processes; rolling wire drawing and extrusion; design of rolling mills and extrusion dies. Prerequisite Met. Engr. 733, 741, or consent of instructor 3 O.h.
- 861 Applied X-rays
Generation of X-rays; Principle of Radiography, X-ray absorption; X-ray diffraction interaction of X-rays with matter; Laue back reflection and transmission; Powder diffraction; Diffractometer; Determination of crystal structure and lattice parameter Prerequisite Met. Engr. 733 3 q.h.
- 862 Applied X-rays II
Application of X-rays in physical metallurgy to determine solubility, lattice structure, atom location, grain size Preferred orientation, phase diagrams, (Lecture + Lab) Prerequisite Met. Engr. 793 3 q.h.
- 863 Thermodynamics of Materials I
Principles of thermodynamics and its applications to materials metallurgical systems, processes and alloys Prerequisite Met. Engr. 793 3 q.h.
- 864 Thermodynamics of Materials II
Applications of thermodynamic principles to materials systems theory of alloys. Prerequisite Met. Engr. 863 3 q.h.
- 865 Advanced Science of Materials
Structure and properties of materials, theories of bonding in solid - free electron theory, band theory, and zone theories. density of states; electrical and magnetic behaviors theory of alloys phases; structure of alloys Prerequisite Met. Engr. 863 & 865 3 q.h.
- 866 Special Topics
Discussion of special topics (in metallurgy or material science) which are of current research interests. Prerequisite Met. Engr. 863 & 855 3 q.h.
- 871 Physical Metallurgy IV
Discussion of theories of Corrosion, age-hardening, gases in metal. Prerequisite Met. Engr. 793 3 q.h.
- 872 Refractory Metals & Alloys
Production and Processing of Refractory metals; physical and Mechanical properties of the metals and their alloys; design of refractory alloys. Prerequisite Met. Engr. 793 3 q.h.

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890 Metallurgy and Materials Colloquium
Review of current Metallurgical and Materials research
papers Prerequisite Consent of advisor 1 q.h.

891-892-893 Thesis I, II, III
The student carries out an investigation on an approved
project under the major advisor. The student presents
a written report. The project must be formally approved
by the department head. Prerequisite Fenior standing or
150 q.h. (3-4) q.h.
each

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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1. For the Committee files
2. To be returned to the Departmental Chairman or Supervisor
3. To be sent to the Dean of the School
4. To be sent to the Editor of the Catalog

TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new~~ change\$ course for approval:
(From 3 c.h. to 4 c.h.)

<u>Business Organization</u>	<u>#720</u>	<u>Business Finance</u>	<u>4</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Junior standing.

DESCRIPTION: A study of the financial problems associated with the life cycle of a business. This course consists of the analysis of problems relating to estimating the financial needs of an enterprise and to evaluating the alternative means of providing temporary and permanent capital. The relationship of current financial decisions with financial policy is analyzed from the viewpoint of management and the investor.

REASONS FOR PROPOSAL:

This is a basic course in finance, including charts, diagrams, graphs and case decisions. 3 quarter hours are not sufficient for a satisfactory study.

Date 10 31 68

Signed *[Signature]*
Chairman or Supervisor'

approved . not approved

Date 11-2-68

Signed *[Signature]*
Chairman, Curriculum Committee
(School)

approved not approved

Date APR. 6, 1968

Signed *Helma J. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

-YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new or changed~~ course ~~for approval~~ ^{be dropped:}

Business Organization	4771	Mathematics of Finance	3
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Eusiness Organization #531 or #542 or consent of the teacher.

DESCRIPTION: Designed for students majoring in accounting and for advanced general business students. Simple and compound interest; annuities; investment valuation and effective return calculations; asset valuation accounts and asset replacement funds; permutations and combinations; probability and mortality; life annuities; net premiums; and valuation of life insurance policies.

REASONS FOR PROPOSAL:

In the Fall of 1968 we introduced in our Department two math courses, #641 and #642, containing probability and introductory calculus. As a result, our students do not need 6721 which level is below the above-mentioned two courses.

Date 10.31.1968

Signed *L. [unclear]*
Chairman or Supervisor

approved not approved

Date 11-20-68

Signed *E. [unclear]*
Chairman. Curriculum Committee (school)

approved not approved

Date Dec. 6, 1968

Signed *Helma J. [unclear]*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following ~~new~~ ~~or~~ ~~changed~~ course for approval:

(From 3 c.h. to 4 c.h.)

<u>Business Organization</u>	<u>#804</u>	<u>Personnel Management</u>	<u>4</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Business Organization #725 and #750.

DESCRIPTION: Deals with objectives, functions and organization of typical personnel programs, including problems involved in personnel administration.

Emphasizes job analysis, job evaluation and description, selection and placement, education and training, safety and health, employee services, employee relations, and the administration of wages and hours.

REASONS FOR PROPOSAL:

This course, besides lectures, requires analysis of psychological methods in recruiting and counseling. 3 quarter hours are not sufficient for a satisfactory study.

Date 10-31-1968

Signed *[Signature]*
Chairman or Supervisor

approved not approved

Date 11-20-68

Signed *[Signature]*
Chairman, Curriculum Committee
(School)

.....
approved not approved

Date Dec 6, 1968

Signed *[Signature]*
Chairman
University Curriculum Committee

NOTE: Approved and passed at-Senate meeting 12-6-68.

E. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Economics</u>	<u>787</u>	<u>Population Movements</u>	<u>4 q.h.</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Junior Standing (Listed also as History 787 and Sociology 787)

DESCRIPTION: Trends in world population in their relation to history, migration and urbanization. Human demography and ecology: various measurements of the size, density, and distribution of population as well as their economic and social environments.

REASONS FOR PROPOSAL:

Date November 11, 1968

Signed *Emily P.*
Chairman or Supervisor

approved not approved

Date November 11, 1968

Signed *James W. Kousis*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed _____
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOVN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Sociology	787	Population Movements	4 q.h.
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Junior Standing (Listed also as Economics 787 and History 787)

DESCRIPTION: Trends in world population in their relation to history, migration and urbanization. Human demography and ecology: various measurements of the size, density, and distribution of population as well as their economic and social environments.

REASONS FOR PROPOSAL:

Date November 11, 1968

Signed James W. Kiriakis
Chairman or Supervisor

approved not approved

Date November 1 1968

Signed James W. Kiriakis
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed [Signature]
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>History</u>	<u>787</u>	<u>Population Movements</u>	<u>4 a.h.</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Junior Standing (Listed also as Economics 787 and Sociology 787)

DESCRIPTION: Trends in world population in their relation to history, migration and urbanization. Human demography and ecology: various measurements of the size, density, and distribution of population as well as their economic and social environments.

REASONS FOR PROPOSAL:

Date November 11, 1968

Signed *J. J. E...*
Chairman or Supervisor

approved not approved

Date November 19, 1968

Signed *James W. Kriazis*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 12, 1968

Signed *Helma J. M...*
Chairman
University Curriculum Committee

NOTE: -Approved and passed at Senate meeting 12-6-68.

YOUNGSTOWN STATE UNIVERSITY

V. Jenkins
SECRETARY OF SENATE

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>History</u>	<u>788</u>	<u>American Population Movement</u>	<u>3 quarter hrs</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Junior Standing

DESCRIPTION: A History of the Atlantic migration and its social, political, and economic effect on American environments.

REASONS FOR PROPOSAL: This is not a new course. I am only bringing to your attention the fact that the History Department will continue the second quarter of the course Population Movements. The first course (787) will be a joint offering between the departments of History, Economic and Sociology. This course will be listed only within the Department of History.

Date 11/13/68

Signed *John G. Egan*
Chairman or Supervisor

approved not approved

Date November 19, 1968

Signed *James W. Krizan*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Helmer E. Pines*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to ^{drop} submit the following ~~new or changed~~ course for approval:

Sociology	801	Population Dynamics	4 q. h.
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Sociology 707

DESCRIPTION: Human demography and ecology. Quantitative and qualitative aspects of the size, density, distribution as well as the physical and social environments of people. Emphasis on the United States.

REASONS FOR PROPOSAL:

Replaced by Sociology 707

Date November 22, 1968

Signed James W. Kiriakis
Chairman or Supervisor

approved not approved

Date November 22, 1968

Signed James W. Kiriakis
Chairman, Curriculum Committee
(School)

College of Arts + Sciences

approved not approved

Date Dec. 6, 1968

Signed John A. ...
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Health and Phys. Ed.</u>	<u>534C</u>	<u>Beginning Fencing</u>	<u>1</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: None

DESCRIPTION:

REASONS FOR PROPOSAL: Added Beginning to title

Date May 20, 1968

Signed *Tom Blaine*
Chairman or Supervisor

approved not approved

Date May 29, 1968

Signed *James W. Kirsner*
Chairman, Curriculum Committee
(School)

College of Arts & Sciences

approved not approved

Date Dec. 6, 1968

Signed *William W. ...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins

SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Health and Physical Ed.	5350	Inter - Fencing	1

PREREQUISITES: HPE 5340

DESCRIPTION: To present the basic fundamentals of offense and defense and to develop an understanding of the simple direct and indirect attacks to various areas.

REASONS FOR PROPOSAL: To present the fundamental defensive patters. Need as follow course to 5340

Date May 20, 1968

Signed *Wm. Blason*
Chairman or Supervisor

approved not approved

Date M. J. 29, 1968

Signed *James W. Kerian*
Chairman, Curriculum Committee (School)
College of Arts + Science

approved not approved

Date Dec. 10, 1968

Signed *James W. Kerian*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Health and Physical Ed.	540C	Golf	1

PREREQUISITES: None

DESCRIPTION: Fundamentals for beginning and intermediate golfers

REASONS FOR PROPOSAL: Course number change necessary from 535C

Date May 20, 1968

Signed *W. Johnson*
Chairman or Supervisor

approved not approved

Date May 29, 1968

Signed *W. Kiviat*
Chairman, Curriculum Committee
(School)
College of Arts & Sciences

approved not approved

Date July 6, 1968

Signed *[Signature]*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

E. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Health and Physical Ed.	703C	Change to read Principles of Health and Phys.Ed.	4

PREREQUISITES: Biology 500-501-502 or 503-504
Psychology 602 or Junior Standing

DESCRIPTION:

REASONS FOR PROPOSAL: Slight change in title only

Date May 20, 1968

Signed *Tom Pearson*
Chairman or Supervisor

approved not approved

Date May 29, 1968

Signed *W. S. ...*
Chairman, Curriculum Committee (School)
Coll. of Ed. & Soc. Sci.

approved not approved

Date Dec. 6, 1968

Signed *Alma J. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Health and Physical Ed.	771M	Practice of Camp Counseling	3-9

PREREQUISITES: HPE 770M and consent of instructor

DESCRIPTION: Application of camp leadership skills is emphasized. Supervised counseling experience is afforded the student through cooperation with nearby camps.

REASONS FOR PROPOSAL: Needed for men's division comparable to women's 771W

Date May 20, 1968

Signed *Tom Stinson*
Chairman or Supervisor

approved not approved

Date May 29, 1968

Signed *L. I. Kline*
Chairman, Curriculum Committee (School)

College of Arts & Sciences

approved not approved

Date Dec. 6, 1968

Signed *Melba L. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

E. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Communication	505H-506H-507H	Honors Basic Course I-II-III	3 + 3 + 3

PREREQUISITES: 505H prerequisite to 506H prerequisite to 507H, but with the recommendation of the instructor and approval by the chairman students may be transferred from regular Communication sections to honors sections.

DESCRIPTION:

An honors course for selected students, emphasizing wide reading and independent research. Satisfactory (A or B) grade in 507H will be regarded as fulfillment of University Communication requirement

REASONS FOR PROPOSAL: Enter into catalog existing practices done on an ad hoc basis.

Date 16 May 1963

Signed David L. Miner
Chairman or Supervisor

approved not approved

Date October 21, 1968

Signed James W. Krizan
Chairman, Curriculum Committee
(School)

College of Arts and Science

approved not approved

Date Dec. 6, 1968

Signed David L. Miner
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins

YOUNGSTOWN STATE UNIVERSITY

SECRETARY OF SENATE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

English Department	871 Course Number	The Negro in American Literature Course Title	5 Credit Hours
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PREREQUISITES: Identical with all upper division courses in English (6 hours 603-level literature).

DESCRIPTION:

Literature by and about the Negro in Ainerica.

- REASONS FOR PROPOSAL:
1. Student demand justifies offering this once every year.
 2. We now have a member of the staff qualified to teach this course
 3. Such a course reflects an important literary aspect of 20th Century America.

Date 16 May 1968

Signed *Harold D. Nixon*
Chairman or Supervisor

approved not approved

Date November 18, 1968

Signed *James W. Kouzias*
Chairman, Curriculum Committee
(School)

College of Arts and Sciences

approved not approved

Date Dec 6, 1968

Signed *Helma L. Meyer*
Chairman
University Curriculum Committee

6

NOTE: Approved and passed at Senate meeting 12-6-68.

E. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

APPLICATION FOR A NEW OR CHANGED COURSE

Note: Four copies of each application should be submitted to the chairman of the University Curriculum Committee:

1. For the Committee files
2. To be returned to the Departmental Chairman or Supervisor
3. To be sent to the Dean of the School
4. To be sent to the Editor of the Catalog

TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Physics</u>	<u>510</u>	<u>General Physics I</u>	<u>To be increased</u>
Department	Course Number	Course Title	from 3 to 4
			Credit Hours

PREREQUISITES: As stated in current catalog.

DESCRIPTION: As stated in current catalog. Plus the statement: "Physics 601, 602, 603 and their laboratories may be taken in any order after the completion of Physics 510.

REASONS FOR PROPOSAL: Our experience shows that 3 quarter hours is not sufficient time to teach the topics in mechanics that are required as a basis for the sequential physics courses.

Date Aug 1-1968

Signed *Frank McEllis*
Chairman or Supervisor

approved not approved

Date November 18, 1968

Signed *James W. Kiriazis*
Chairman, Curriculum Committee
(School)

College of Arts and Sciences

approved not approved

Date DEC. 6, 1968

Signed *Helena L. Miner*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins

YOUNGSTOWN STATE UNIVERSITY

SECRETARY OF SENATE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Department	Course Number	Course Title	Credit Hours
Industrial Engr.	703	Systems Analysis	3

PREREQUISITES: IE 602, Math 742

DESCRIPTION: Simulation of Industrial Engineering Systems. Models of inventory, queueing and material handling systems will be examined and simulated on the 360-40 Digital Computer. Elementary problems of production systems involving decisions under uncertainty will be investigated.

REASONS FOR PROPOSAL:

Simulation of large scale systems is being used more and more in an industrial environment. For this reason, an introductory course in simulation will be more beneficial to the industrial engineering undergraduate than the present IE 703 course which is an introductory course in the use of compilers and numerical methods.

Date November 12, 1968

Signed *V. Jenkins*
Chairman or Supervisor

approved not approved

Date 12-7-68

Signed *M. J. ...*
Chairman, Curriculum Committee
(School) *Engr.*

approved not approved

Date Apr 4, 1968

Signed *Helmut ...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Chemical Engr.</u>	<u>685</u>	<u>Corosion Control Engineering</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Introduction to electrochemical mechanism and theory of
 Chem. 517 corrosion, engineering practices and criteria for both
 Math 553 anodic and cathodic control by anodic rectification.
 DESCRIPTION: Theory and engineering practices in the use of inhibitors.

REASONS FOR PROPOSAL: To provide a Chemical Engineering elective.

Date November 18, 1968

Signed *Paul E. Zimmerman*
Chairman or Supervisor

approved not approved

Date 19-*Nov*-68

Signed *Allen J. Chapman*
Chairman, Curriculum Committee
(School)

approved not approved

Date *DEC 10, 1968*

Signed *Allen J. Chapman*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

--- - - - YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

Chem. Engr.	686	Industrial Waste Control	3
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

Chem. 517
Math 553

DESCRIPTION:

Introduction to modern methods for waste control in chemical operations including filtration, ejector aeration, deep well disposal, activated sludge treatment and disposal, instrumental analytical control methods and current approach to waste control education and program formulation.

REASONS FOR PROPOSAL:

To provide a Chemical Engineering elective.

Date November 18, 1968

Signed *Paul C. Thompson*
Chairman or Supervisor

approved not approved

Date 19 Nov 68

Signed *W. H. ...*
Chairman, Curriculum Committee
(School)

approved **a** not approved

Date Dec. 6, 1968

Signed *Helma ...*
Chairman
University Curriculum Committee

MOTE: Approved and passed at Senate meeting 12-6-68.

A. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Chem. Engr.</u>	<u>783</u>	<u>Engineerine Plastics</u>	<u>3</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:
Chem. Engr. 684

A survey of the plastics industry from the following standpoints:

DESCRIPTION:

1. Mechanisms of formation and the process and **operations** necessary for their implementation.
2. Relationship of formulation with product properties.
3. Various sources and preparations of monomers.
4. Relative availability of reagent materials and their cost.
5. Polymer classification on a utility basis.

REASONS FOR PROPOSAL:

To allow another Chemical Engineering elective.

Date November 18, 1968

Signed *Paul E. Lupton*
Chairman or Supervisor

approved not approved

Date .19 Nov 68

Signed *A. J. Charignon*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *Shelton*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkins
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Chem. Engr.</u>	<u>884-885</u>	<u>Process and Plant Design</u>	<u>3+3=6</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES: Ch. E. 787-787L
Ch. E. 880

DESCRIPTION: Presentation of the analytical approach for establishing a technically and economically efficient plant and process design. Demonstration of the importance of proper correlation of laboratory and field data into a reliable and workable basis for projecting cost estimates of pilot and commercial plant "scale-ups".

REASONS FOR PROPOSAL:

To provide a new required course usually included in a conventional Chemical Engineering curriculum.

Date November 18, 1968

Signed *Paul C. Luginbuhl*
Chairman or Supervisor

approved not approved

Date 19 Nov 68

Signed *A. M. J. ...*
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed *...*
Chairman
University Curriculum Committee

NOTE: Approved and passed at Senate meeting 12-6-68.

V. Jenkinson
SECRETARY OF SENATE

YOUNGSTOWN STATE UNIVERSITY

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TO THE UNIVERSITY CURRICULUM COMMITTEE:

I wish to submit the following new or changed course for approval:

<u>Chemical Engineering</u>	<u>789-789L</u>	<u>Unit Operations IV</u>	<u>3+1=4</u>
Department	Course Number	Course Title	Credit Hours

PREREQUISITES:

Chem. Engr. 785-785L

DESCRIPTION:

REASONS FOR PROPOSAL: Course is to be deleted to cut down total number of hours presentally required and allow for the addition of new required and elective courses.

Date November 18, 1968

Signed Paul C. Suprenant
Chairman or Supervisor

approved not approved

Date 19 Nov 68

Signed Alb J. Charignon
Chairman, Curriculum Committee
(School)

approved not approved

Date Dec. 6, 1968

Signed Helms J. Miner
Chairman
University Curriculum Committee