

UNIVERSITY CURRICULUM COMMITTEE  
MINUTES

November 23, 1981

The University Curriculum Committee met on November 23, 1981, in Brewster B-103 at 3:00 p.m. Members present: Grossnickle, Boyce, Broadhurst, Cain, Daugherty, Hamilton, Hancock, Holt, Moore, Leahy, O'Rear, and Topper. Members absent: Chancellor Brewer and Johnson (ex officio).

The minutes of November 9, 1981, were approved as distributed.

Professor Grossnickle moved to bank the following Philosophy courses: PHIL 3311, 3332, 3451, 4312, 4331, 4333, 4441, 5290, 5282. Boyce seconded, and the motion passed.

Professor Grossnickle moved to remove HIST 5950 and HIST 5951 from the curriculum bank. Boyce seconded, and the motion passed.

Professor Hancock, Department of Health, Physical Education, Recreation and Safety presented the new course proposal, PRC 2601, Camp Counseling. Professor Moore moved to accept the course, Leahy seconded and the motion passed.

Professor Robert S. Tacker, Department of Psychology presented the new course proposal HSEM 2070, Psychology. This addition to the Honors program appears on page 100 of the Catalogue and is crosslisted on page 241. The course may not be taken by a student who has taken PSYC 1050 and 1051 or the equivalent. Professor Boyce moved to accept the course, Holt seconded and the motion passed.

Professor Martin McGuire, School of Allied Health and Social Professions, requested HPRO 5000 to be increased from 2 s.h. to 3 s.h. Professor Holt moved to accept the request, Moore seconded, and the motion passed.

Professor Susan Smith, School of Allied Health and Social Professions, presented HPRO 2000, Survey of the Allied Health Professions for consideration. Professor Hancock moved to accept the new course proposal, Boyce seconded, and the motion passed.

Professor Doris Davenport, School of Allied Health and Social Professions, presented a new course proposal, COHE 3300, 3301, Introduction to Patient Education. The course proposal was corrected as follows: I.B. Credit hours: 3, 0; I.D. Two (2) classroom hours and three hours in the laboratory/field per week; I.F. ...Emphasis is on education for promotion of health and change of life style. Professor Hamilton moved to accept the course as amended, Topper seconded, and the motion passed.

Professor Oris Blackwell, School of Allied Health and Social Professions presented a new course proposal, EHLT 5010, 5011. The course proposal was amended, as follows: I.B. 3,0; I.E. ...6 hours of biology including BIOL 2120 or permission of the instructor. Professor Broadhurst moved to accept the course as amended. Hamilton seconded and the motion passed.

Professors Louis Zincone and Carl Gooding, School of Business, presented a number of new courses and changes for Committee approval. Change the course ~~fix~~ ECON 4203, Labor Relations, to MGMT 4422, Labor Relations. New course proposal, MKTG 4882, Physical Distribution Management. Delete MKTG 4892, Principles of Transportation. New course proposals: MGMT 4472, Compensation Management; MGMT 4482, Collective Bargaining; MGMT 4742, Materials Management.

Add two new concentrations: Human Resource Management and Production Management (see attachment). Delete the present management concentration on page 328, Undergraduate Catalogue.

The following ECON courses are requested to be moved from the School of Business: ECON 2113, 2114; 2133, 2134; 3323; 4022; 4024; 4213; 4353; and 4363. Courses which will remain in the School of Business and retitled DSCI (Department of Decision Sciences) are: DSCI 2223, Introduction to Computers; DSCI 2283, Statistical Analysis I; DSCI 3623, Management Science I; DSCI 3343, Managerial Economics (new title).

New course proposals presented by Professors Zincone and Gooding are DSCI 4063, Management Information Systems I; DSCI 4163, Management Information Systems II; DSCI 4393, Forecasting and DSCI 4493, Statistical Quality Control. No additional computer time will be necessary for the new course proposals.

In the School of Business, the new area of concentration under Decision Sciences includes the following courses upon approval: DSCI 4063, 4293, 4633 and two of the following: DSCI 4393, 4163, 4953, 4493, MGMT 4722. Logical groupings are (1) DSCI 4393 and 4493 for those interested in quantitative methods and (2) DSCI 4163, 4393, and MGMT 4722 for those interested in information systems. It was proposed that the School of Business transfer ECON 4203, Labor Relations, to the Department of Marketing and Management and delete ECON 4593, Business Information Systems. Professor Zincone said there would be no objection if MATH would want to develop a similar course to DSCI 4393, Forecasting, in the future. On page 328, Undergraduate Catalogue, the Department of Economics, with two concentrations would be deleted. The Department of Decision Sciences would be added, with three concentrations under the Department of Marketing and Management.

Professor Boyce moved to accept the new course proposals and other changes from the School of Business. Professor Leahy seconded, and the motion passed.

Professors Elmer Erber, Darryl Davis, F.L. Broadhurst, Kenneth Mayer, Jerry Tester, Edward Keeter, School of Technology, Department of Industrial and Technical Education, presented a proposal for the modification of the INDT degree programs. The word "management" should be deleted where it appears in the various areas of concentration. Program modifications for the Industrial and Technical Education Major, B.S. Degree:

Industrial and Technical Education Major, B.S. Degree  
Industrial and Technical Education Minor, B.A./B.S. Degree  
Industrial Technology Major, B.S. (Professional) Degree  
Industrial Technology Major, B.S. (Professional) Degree  
(Technical Institute/Community College Transfer Program)  
Industrial Technology Minor, B.A./B.S. Degree  
Industrial and Technical Education Major, B.A. Degree

were presented. Requests for modification of INDT programs as listed were presented:

1. Drop Indt 1030, 1040, 1050, 1060, 1070, 1082, 2030, 2040, 2060, 3060, 3092, and 3094. (40 s.h.)
2. Add (modification of courses in item 1) Indt 1002, 1032, 1042, 1052, 1062, 1072, 1084, 2032, 2042, 2062, 2662, 4092, and 4094. (37 s.h.)
3. Add (new courses) Indt 1010, 1020, 1088, 2662, 3020, 3054, 3300, 3660, 3666, 4030, 4040, 4060, 4200, 4300, 4501, 4502, 4504, 4505, 4506, 4507, 4508, 4660, 4664. (69 s.h.)

4. Drop Indt 2031 General Mechanical Drawing (service course - no demand).
5. Bank 3294 Principles of Industrial Training (will need in future education and training option). (3 s.h.)
6. Add SPCH 2001 or 2080 as part of the general education requirement for the Industrial Technology, B.S. (Professional) Degree Major.
7. Add PHYS 1080 to the list of courses not meeting the science general education requirement for the Industrial Technology, B.S. (Professional) Degree Major.

New course proposals were presented:

- INDT 1001, 1002, Industrial Crafts
- INDT 1010, Introduction to Industry and Technology
- INDT 1020, Materials Technology
- INDT 1032, 1033, Engineering Graphics I
- INDT 1042, 1043, Introduction to Graphic Communications Technology
- INDT 1052, 1053, Electricity Electronics Fundamentals
- INDT 1062, 1063, Woods Processing Technology I
- INDT 1072, 1073, Metals Technology I.
- INDT 1084, 1085, Power Technology
- INDT 1088, Hydraulic and Pneumatic Systems
- INDT 2032, 2033, Engineering Graphics II
- INDT 2042, 2043, Photo-Offset Lithography
- INDT 2062, 2063, Woods Processing Technology II
- INDT 2660, 2661, Construction Techniques I
- INDT 2662, Construction Techniques II
- INDT 3020, Manufacturing Processes
- INDT 3054, 3055, Computer Based Industrial Control
- INDT 3300, Plant Layout and Materials Handling
- INDT 3660, 3661, Building Systems Design I
- INDT 3666, 3667, Construction Surveying (I. E.: Include MATH 1074 or 1075)
- INDT 4030, 4031, Descriptive Geometry
- INDT 4040, 4041, Advanced Lithographic Practices
- INDT 4060, 4061, Woods Products Manufacturing
- INDT 4200, Work Methods Analysis (I.E.: Delete: in I.E. Junior standing plus)
- INDT 4300, Quality Assurance Concepts (Delete Junior standing plus in I.E.)
- INDT 4092, 4093, Manufacturing (Management deleted in I.A.)
- INDT 4094, Industrial Maintenance (Management deleted in I.A.)
- INDT 4501, Laboratory Problems: Maintenance (Management deleted in I.A.)
- INDT 4502, Laboratory Problems: Production. (Management deleted in I.E.)
- INDT 4504, Laboratory Problems: Graphic Communication (Change in title to read Graphic Communication instead of Graphic Arts--I.A.; ...arts changes to communication in I.F.)
- INDT 4505, Laboratory Problems: Electronics
- INDT 4506, Laboratory Problems: Woods Processing
- INDT 4507, Laboratory Problems: Metals
- INDT 4508, Laboratory Problems: Power Technology
- INDT 4660, Construction Estimating
- INDT 4664, Construction Supervision.

Professor Holt moved to accept the changes as amended. Broadhurst seconded.

The motion passed.

Professor Charles Stevens, School of Music, presented:

1. Realignment of course requirements for voice and organ concentrations for the Bachelor of Music in Church Music. (1981-82, UC, page 379)
2. Correction in Course Descriptions of MUSC 1105, 1115, and 2125, 2135.
3. Minimum Grade Standards for Piano Proficiency Courses.
4. Minimum Grade Standards for Applied Music.

Professor Topper moved to accept the changes. Hamilton seconded and the motion passed.

The meeting adjourned at 6:05 p.m.!

DEPARTMENT OF PHILOSOPHY

Bank PHIL 3311, 3332, 3451, 4312, 4331, 4333, 4441, 5290, 5282.

DEPARTMENT OF HISTORY

Remove HIST 5950 and HIST 5951 from Curriculum Bank.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION,  
RECREATION & SAFETY

PRC 2601

Camp Counseling (3) (On demand)

Three (3) classroom and/or laboratory hours required and one overnight camping trip.

Prerequisites: None

A study of organized group camping philosophy, goals, organization, setting, facilities, programs and clientele with emphasis on skills desired to be an effective staff member at the non-administrative level.

Catalogue Placement: page 192 of the 1981-82 UC

DEPARTMENT OF PSYCHOLOGY

SEM 2070

Psychology (3) (On demand)

Three (3) classroom hours required per week

Prerequisites: Invitation from the coordinator of the Honors Program

An introduction to the fundamental concepts in Psychology in a seminar format. (May be used to apply toward the Social Sciences requirement of the General Education requirements and to substitute for Psychology 1050, 1051).

Catalogue Placement: 1981-82 UC, page 100

SCHOOL OF ALLIED HEALTH AND SOCIAL PROFESSIONS

HPRO 5000

Seminar in Human Sexual Dysfunctions (3) (F,S, AND SS)

Three (3) seminar hours per week

Prerequisites: None

An exploration of problems in human sexual behavior and functioning. Emphasis will be directed toward the development of assessment and intervention skills in the delivery of sexual health care to a broad spectrum of clients to whom health and social professionals relate.

Catalogue Placement: UC 1981-82, page 282.

HPRO 2000

Survey of the Allied Health Professions (2) (F,S)

Two (2) classroom hours once per week.

Prerequisite: None

An overview of the major allied health professions including a description of the profession, educational requirements, employment

opportunities, and role of each profession in an integrated system of health care. Particular emphasis will be given to those professions represented by educational programs at ECU. Catalogue placement: Page 280 of the 1981-82 UC.

COHE 3300, 3301, Introduction to Patient Education (3) (F,S)  
Two (2) classroom hours and three hours in the laboratory/field per week.  
Prerequisites: COHE 3000 or permission of instructor  
Introduction to theories which apply to the practice of patient education in a variety of health care settings. Emphasis is on education for promotion of health and change of life style.  
Catalogue placement: Undergraduate Catalogue, 1981-82, page 183.

EHLT 5010, 5011 Environmental Toxicology (3)(0) (On demand)  
Two 50-minute lectures and one 2-hour laboratory per week  
Prerequisites: Senior or Graduate standing; 8 semester hours of chemistry; 6 hours of biology, including BIOL 2120 or permission of instructor  
The basics of toxicology--physiological response and environmental sources, as well as specifics of major toxins will be covered. Primarily for Environmental Health majors, but available to other students.  
Catalogue Placement: 1981-82 UC, page 285; Graduate, page 131.

#### SCHOOL OF BUSINESS

MGMT 4422 Labor Relations (Formerly ECON 4203) (3) (F,S)  
Three (3) classroom hours per week  
Prerequisite: MGMT 3202, Fundamentals of Management  
Labor in the U.S.: history, structure and government of unions, labor law, collective bargaining processes, contract administration, public sector organizations.  
Catalogue Placement: Page 335 of 1981-82 UC

MKTG 4882 Physical Distribution Management (Replaces MKTG 4892) (3) (S)  
Three (3) classroom hours per week  
Prerequisite: MKTG 3832  
Design and control of physical distribution systems in light of environmental constraints.  
Catalogue Placement: page 334 of the 1981-82 UC

MGMT 4472 Compensation Management (3) (F)  
Three (3) classroom hours per week  
Prerequisites: MGMT 4402, Personnel Management  
Detailed analysis of employee compensation including job evaluation, legal constraints on compensation, wage and salary structures, merit rating, individual and group compensation plans, and fringe benefits. Theory, applications, and experiential exercises.  
Catalogue Placement: Page 335 of the 1981-82 UC.

MGMT 4482 Collective Bargaining (3) (S)  
Three (3) classroom hours per week  
Prerequisites: MGMT 4422, Labor Relations  
A detailed study of collective bargaining focusing on the structure, procedure and theory of bargaining, industrial conflict and the substantive issues in collective bargaining. Theory, applications and simulations.  
Catalogue Placement: Page 335 of the 1981-82 UC.

DSCI 4493

Statistical Quality Control (3) (S,F)  
Three (3) classroom and/or laboratory hours required per week.  
Prerequisites: DSCI 2283, DSCI 3623  
The principles and applications of statistical quality control.  
Control charts and acceptance sampling, how they work and inter-  
pretations of results.  
Catalogue Placement: Page 327-335 of the 1981-82 UC.

Area of Concentration

DECISION SCIENCES

Decision Sciences

DSCI 4063, 4293, 4633 and two of the following: DSCI 4393, 4163, 4953, 4493, MGMT 4722. Logical groupings are (1) 4393 and 4493 for those interested in quantitative methods and (2) DSCI 4163, 4393, and MGMT 4722 for those interested in information systems.

Delete ECON 4593, Business Information Systems. Transfer ECON 4203, Labor Relations, to the Department of Marketing and Management.

(Page 327)

Minimum degree requirement is 120 s.h. of credit as follows:

- 1, 3, 4, and 5 remain the same.
- 2. Common Body of Knowledge including ACCT 2401, 2521; DSCI 2223, 2283, 3243, 3623; FINA 2244, 3724; MGMT 3202, 3722, 4842; MKTG 3832 .....36 s.h.

SCHOOL OF TECHNOLOGY

DEPARTMENT OF INDUSTRIAL AND TECHNICAL EDUCATION

CURRICULUM FOR PREPARATION OF TEACHERS

A. Industrial and Technical Education Major, B.S. Degree

Minimum degree requirement is 126 s.h. of credit as follows:

- 1. General education requirements (see Section 6, The General College: REQUIREMENTS FOR BACCALAUREATE DEGREE PROGRAMS) including cognate courses marked\* . . . . . 44 s.h.
- 2. Required INDT courses: 1010, 1020, 1032, 1042, 1052, 1062, 1072, 1084, 3190, 4094, 4190, 4325; plus 6 s.h. from one of the following technology areas: Construction, Drafting & Design, Electricity/Electronics, Graphic Communication, Metals, Woods; plus 9 s.h. of laboratory courses ..... 51 s.h.
- 3. Required cognate courses: ECON 2113\*; HIST (any course)\*; Literature (any course)\*; MATH 1065\*, 1074; PSYC 1050\*; SPCH 2001\* or 3004\* or 2080\* ..... 18 s.h.
- 4. Required professional courses: INDT 2123, 4323; PSYC 3240, 4305; SEED 3272, 3325, 4324 ..... 23 s.h.
- 5. Electives ..... 6 s.h.

MGMT 4742

Materials Management (3) (/)  
Three (3) classroom hours per week  
Prerequisites: MGMT 3722  
Basics of materials management as a supporting function of production in organizations. Specific topics include materials handling, warehousing, purchasing, traffic, and physical distribution.  
Catalogue Placement: page 335.

### Areas of Concentration

#### DEPARTMENT OF MARKETING AND MANAGEMENT

Marketing remains the same.

##### Human Resource Management

1. MGMT 4242 - Organizational Behavior or PSYC 3241
2. MGMT 4402 - Personnel Management
3. MGMT 4422 - Labor Relations
4. Choose two of the following:
  - a. MGMT 4472 - Compensation Management
  - b. MGMT 4482 - Collective Bargaining
  - c. MGMT 4492 - Personnel Decision Making
  - d. MGMT 4952 - Topics in Management

##### Production Management

1. MGMT 4722 - Production Planning & Control
2. MGMT 4742 - Materials Management
3. Choose three of the following:
  - a. ACCT 3621 - Cost Accounting
  - b. DSCI 4063 - MGMT Information System I
  - c. DSCI 4393 - Forecasting
- d. DSCI 4493 - Statistical Quality Control
- e. MKTG 4882 - Physical Distribution Mgmt.
- f. MGMT 4422 - Labor Relations

DSCI 4063

Management Information Systems I (3) (On demand)  
Three (3) classroom and/or laboratory hours required per week.  
Prerequisite: Introduction to Computers, DSCI 2223  
An introduction to information systems in business and to the hardware and software tools used TO IMPLEMENT THEM.  
Catalogue Placement: Pages 327-335.

DSCI 4163

Management Information Systems II (3) (On demand)  
Three (3) classroom and/or laboratory hours required per week.  
Prerequisite: Management Information Systems I, DSCI 4063  
An analysis, design, and implementation of a business information system. An introduction to communications systems, operating systems, distributed processing, and decision support systems.  
Catalogue Placement: pages 327-335.

DSCI 4393

Forecasting (3) (S)  
Three (3) classroom and/or laboratory hours required per week.  
Prerequisites: DSCI 2283 or equivalent  
Causal and univariate time series models for forecasting sales, production, and other variables of interest to organizations.  
Catalogue Placement: Pages 327-335 of 1981-82 UC



B. Industrial and Technical Education Minor  
(B.A./B.S. Degree)

The student must elect 18 s.h. from any of the following technical laboratory areas: Construction, Drafting & Design, Electricity/Electronics, Graphic Communication, Metals, Power, Woods; plus 9 s.h. from any of the INDT or TECH courses .....27 s.h.

CURRICULUM FOR INDUSTRIAL TECHNOLOGY

A. Major, B.S. (Professional) Degree

Minimum degree requirement is 126 s.h. of credit as follows:

1. General education requirements (see Section 6, The General College: REQUIREMENTS FOR BACCALAUREATE DEGREE PROGRAMS) including: ECON 2113, 2223; MATH 1065; PSYC 1050, 3241; Science (8 s.h. from Chemistry and Physics to include one course from each area - CHEM 0150, PHYS 1070 and 1080 will not meet this requirement). SPCH 2001 or 2080...  
..... 44 s.h.
2. Technology Core: Indt 1010, 1020, 1032, 1052, 1088, 3290, 3292, 4300, 4293 ..... 27 s.h.
3. Area of Concentration ..... 21 s.h.
4. Required cognate and core courses: ACCT 2401, FINA 2244, MGMT 3202, Management related elective (3 s.h.), MATH 1074, Math related elective\* (3 s.h. from Computer Science, Calculus, Statistics), Science Elective\* (4 s.h. from Biology, Chemistry, Geology or Physics). Courses selected to meet requirement marked\* must be approved by faculty advisor .....  
..... 21 s.h.
5. Free Electives: ..... 13 s.h.

B. Major, B.S. (Professional) Degree

(Technical Institute/Community College Transfer Program)

Minimum degree requirement is 126 s.h. of credit as follows:

1. General Education Requirements (see Section 6, The General College: REQUIREMENTS FOR BACCALAUREATE DEGREE PROGRAMS) including: ECON 2113, 2223, MATH 1065; PSYC 1050, 3241; Science (8 s.h. from Chemistry and Physics to include one course from each area - CHEM 0150 or PHYS 1070 and 1080 will not meet the requirement) and SPCH 2001 or 2080  
.....44 s.h.
2. Required INDT courses: 3292, 4094, 4293, 4300, plus electives to total 49 s.h. .... 49 s.h.
3. Required cognate core courses: ACCT 2401; FINA 2244, MGMT 3202, Management related elective (3 s.h.), MATH 1074, Math related elective\* (3 s.h. from Computer Science, Calculus, Statistics), Science elective\* (4 sh.h from Biology, Chemistry, Geology or Physics). Courses selected to meet requirements marked\* must be approved by faculty advisor .....  
.....21 s.h.
4. Electives .....12 s.h.

C. Minor, B.A./B.S. Degree

The student must take INDT 1010 and 1020 and elect 9 s.h. from INDT3290, 3292, 4300, 4092, 4094, 4293, plus 12 s.h. from any of the following technology areas: Construction, Drafting and Design, Electricity/Electronics, Graphic Communication, Woods Processing, Metals Processing and Power..... 27 s.h.

CURRICULUM FOR B.A. DEGREE

A. Industrial and Technical Education Major

Minimum degree requirement is 126 s.h. of credit as follows:

1. General education requirements (see Section 6, The General College: REQUIREMENTS FOR BACCALAUREATE DEGREE PROGRAMS) ..... 44 s.h.
2. Foreign Language through level 1004 ..... 12 s.h.
3. Required INDT courses: 1010, 1032, 1042, 1052, 1062, 1072, 1084, plus 9 s.h. from any of the five major technology areas: Construction, Drafting and Design, Electricity/Electronics, Graphic Communication, Metals, Woods ..... 36 s.h.
4. Plus minor and general electives to complete requirements for graduation.

INDT 1001, 1002

Industrial Crafts, (3,0) (S)

One (1) hour of lecture and four (4) hours of laboratory per week.

Prerequisites: None

Designed to enrich general education of any University student. Develop understanding and skills in fundamental tool processes in leather craft, art metal, plastics, and ceramics industries.

Catalogue placement: Page 411

INDT 1010

Introduction to Industry and Technology (3) (F,S)

Three (3) lecture hours per week.

Prerequisites: None

An introductory study of industry and technology which provides a foundation for advanced study in the various technology specialization areas. Emphasis is on the basic technical and technical managerial concepts of manufacturing, construction and service industries with some attention to the evolution of industry and career opportunities in broad fields of industry and industrial education.

Catalogue Placement: Page 411

INDT 1020

Materials Technology (3) (F,S.)

Three (3) hours lecture per week.

Prerequisites: None

A broad technical study of the physical characteristics, mechanical properties, and applications of the materials of modern industry. Included will be metallic, fibrous, polymeric, ceramic and composite materials.

Catalogue Placement: Page 411

### Areas of Concentration

In addition to the general education, cognate and management core courses outlined above, all BSP degree candidates must select an area of concentration from the following technologies: Manufacturing Management, Drafting and Design, Graphic Communication, Electricity/Electronics, Woods Processing, Metals Processing and Construction Management. The courses within an area of concentration provide for technical and professional proficiency in relation to the student's desired specialization. These courses also provide an in-depth background for advanced technical and professional development.

#### CONSTRUCTION MANAGEMENT

INDT 2660, 2662, 3660, 3666, 4660, 4664, plus 3 s.h. of technical electives.

#### DRAFTING & DESIGN

INDT 2032, 3030, 4030, plus 6 s.h. selected from 3020, 3300, 4200, 4092, 4094, plus 6 s.h. of technical electives.

#### ELECTRICITY/ELECTRONICS

INDT 2052, 3052, 3054, plus 6 s.h. selected from 3020, 3300, 4200, 4092, 4094, plus 6 s.h. of technical electives.

#### GRAPHIC COMMUNICATION

INDT 1042, 2042, 4040, plus 6 s.h. selected from 3020, 3300, 4200, 4092, 4094, plus 6 s.h. of technical electives.

#### MANUFACTURING MANAGEMENT

INDT 1072, 3020, 3300, 4200, 4092, 4094, plus 3 s.h. of technical electives.

#### METALS PROCESSING

INDT 1072, 2070, 3070, plus 6 s.h. selected from 3020, 3300, 4200, 4092, 4094, plus 6 s.h. of technical electives.

#### WOODS PROCESSING

INDT 1062, 2062, 4060, plus 6 s.h. selected from 3020, 3300, 4200, 4092, 4094, plus 6 s.h. of technical electives.

- INDT 1032, 1033      Engineering Graphics I (3) (F,S)  
One (1) hour lecture; four (4) hours laboratory per week.  
Prerequisites: None  
A survey drafting course that gives the basic skills and theory of graphics. The application of graphics in manufacturing construction and related fields.  
Catalogue Placement: page 411
- INDT 1042, 1043      Introduction to Graphic Communications Technology (3) (F,S)  
One (1) hour lecture and four (4) hours laboratory per week.  
Prerequisites: None  
An introduction to graphic communications technology to include letterpress printing, offset printing, screen process printing and intaglio printing. Printing design, copy preparation and offset presswork emphasized through laboratory activities.  
Catalogue Placement: Page 411
- INDT 1052, 1053      Electricity Electronics Fundamentals (3) (F,S)  
Two (2) classroom hours and two (2) laboratory hours per week.  
Prerequisites: None  
Study of fundamental concepts of electronic components and circuits including a survey study of communications and industrial control systems.  
Catalogue Placement: Page 411
- INDT 1062, 1063      Woods Processing Technology I (3) (F,S)  
One (1) hour lecture; four (4) hours laboratory.  
Prerequisites: None  
Introduction to wood as a material and the machines, tools, and basic processes used in the production of products made with wood and associated materials.  
Catalogue Placement: Page 411
- INDT 1072, 1073      Metals Technology I (3) (F,S)  
One (1) hour of lecture and four (4) hours of laboratory per week.  
Prerequisites: None  
Catalogue Description: Study of basic metals of industry; major experiences include bench work, sheet metal, heat treating, oxyacetylene welding, and use of drill press, shaper, and lathe.  
Catalogue Placement: Page 411
- INDT 1084, 1085      Power Technology (3) (F,S)  
One (1) hour lecture; four (4) hours of laboratory per week.  
Prerequisites: None  
A study of the sources of energy and the generation, transmission and utilization of energy. Emphasis will be given to fossil fuel types of energy, generating devices, and alternative energy producing mechanisms.  
Catalogue Placement: Page 412

- INDT 1088 Hydraulic and Pneumatic Systems (3) (F,S)  
Three (3) hours lecture  
Prerequisites: None  
A study of hydraulic and pneumatic systems and their application to industrial equipment.  
Catalogue Placement: Page 412
- INDT 2032, 2033 Engineering Graphics II (3) (F,S)  
Two hours lecture and two hours laboratory per week.  
Prerequisites: INDT 1032  
A continuation of INDT 1032 with greater depth in the application of graphics in manufacturing construction and related fields.  
Catalogue Placement: Page 412
- INDT 2042, 2043 Photo-Offset Lithography (3) (F,S)  
One hour lecture, four hours laboratory per week.  
Prerequisites: INDT 1042  
Study of the processes involved in reproducing both line and halftone copy by the photo-offset process. This course is designed to build on the basic concepts and skills developed in INDT 1042.  
Catalogue Placement: Page 412
- INDT 2062, 2063 Woods Processing Technology II (3) (F,S)  
Two (2) hours laboratory per week.  
Prerequisites: INDT 1062  
A study of the tools and processes used in the production and finishing of products made with wood and associated materials.  
Catalogue Placement: Page 412
- INDT 2660, 2661 Construction Techniques I (3) (F)  
Two (2) hours lecture and two (2) hours laboratory per week.  
Prerequisites: None  
Survey course in construction that deals with basic theories and practices related to light residential construction.  
Catalogue Placement: Page 412
- INDT 2662 Construction Techniques II (3) (S)  
Three (3) hours lecture per week  
Prerequisites: None  
An introduction to the basic nomenclature and construction techniques for erecting commercial, institutional, and industrial buildings. Coverage includes contractor operations, job layout, earthwork, foundations, reinforced concrete, structural steel, masonry, waterproofing, and finishes  
Catalogue Placement: Page 412
- INDT 3020 Manufacturing Processes (3) (F)  
Three (3) hours lecture per week  
Prerequisites: None  
A broad survey course of the common manufacturing processes used to produce industrial products including an overview of the latest manufacturing processes techniques.  
Catalogue Placement: Page 412

- INDT 3054, 3055 Computer Based Industrial Control (3) (S)  
Two (2) classroom hours per week and two laboratory hours per week  
Prerequisites: INDT 2052  
A study of microcomputer operation and applications to industrial equipment and process control systems.  
Catalogue Placement: Page 413
- INDT 3300 Plant Layout and Materials Handling (3) (F,S)  
Three (3) hours lecture per week.  
Prerequisites: None  
Basic principles of plant layout and materials handling as they relate to the manufacturing/industrial setting.  
Catalogue Placement: Page 413
- INDT 3660, 3661 Building Systems Design I (3) (F) (not offered 1982-83)  
Two (2) hours lecture; two (2) hours laboratory  
Prerequisites: INDT 1030, 2660, 2662  
Study of the fundamental theory and principles of the design of an architectural structure utilizing the systems design approach to buildings.  
Catalogue Placement: Page 414
- INDT 3666, 3667 Construction Surveying (3) (F,S) (not offered 1982-83)  
Two (2) hours lecture and two (2) hours of laboratory per week.  
Prerequisites: INDT 1032, MATH 1074 or 1075 and consent of instructor.  
Construction aspects of surveying with field and classroom exercises in the use of transit, level, tape, and related surveying equipment. Problems and exercises in stadia, traverse closure, pipeline, grading, street, curve and building layout.  
Catalogue Placement: Page 414
- INDT 4030, 4031 Descriptive Geometry (3) (F)  
Two hours lecture and two hours laboratory per week.  
Prerequisites: INDT 1032, 2033  
Covers principles of projection including reference systems, that is the graphical method of solving solid analytic geometry problems.  
Catalogue Placement: Page 413
- INDT 4040, 4041 Advanced Lithographic Practices (3) (F)  
One (1) lecture hour; four (4) laboratory hours per week  
Prerequisites: INDT 2042 or permission of the instructor  
Study of color reproduction processes including fake color and process color from color negatives, color positives (slides) and color photographs. Laboratory work will include the application color reproduction processes included in jobs with color backgrounds and type.  
Catalogue Placement: Page 414

- INDT 4060, 4061 Woods Products Manufacturing (3) (F)  
Two (2) hours lecture ; two (2) hours laboratory  
Prerequisites: INDT 2062  
A technical study of the manufacturing of wood products including product design and production techniques.  
Catalogue Placement: page 414
- INDT 4200 Work Methods Analysis (3) (F,S)  
Three (3) lecture hours per week  
Prerequisites: 15 semester hours INDT courses  
An analysis of work methods and a study of work measurement systems. Includes the principles of motion study, work simplification, and work measurement by direct and predetermined motion-time systems.  
Catalogue Placement: page 414
- INDT 4300 Quality Assurance Concepts (3) (F,S)  
Three (3) lecture hours per week.  
Prerequisites: Eighteen (18) semester hours of Technology core courses  
A study of the managerial, statistical, motivational and technological aspects of quality control as practices in manufacturing, construction, processing and service industries.  
Catalogue Placement: Page 412
- INDT 4092, 4093 Manufacturing (3) (F,S)  
Two hours lecture and two hours laboratory per week.  
Prerequisites: 20 s.h. of INDT courses  
Study of the theory and practice of industrial production. Students study product design, jibs, and fixture design and development, fabrication of a product by line production methods, preparation and analysis of the products production records, processes, operations and systems.  
Catalogue Placement: Page 414
- INDT 4094, 4095 Industrial Maintenance (3) (F,S)  
Two (2) hours of lecture and two (2) hours of laboratory per week  
Prerequisites: Twenty (20) semester hours of INDT courses  
Study of the organizational functions of planning, organizing, directing, and controlling activities applicable to maximizing time, money, personnel, equipment, and materials that are directed toward the upkeep of an organization's total facility equipment, services, building, and grounds.  
Catalogue Placement: Page 414
- INDT 4501 Laboratory Problems: Maintenance (3) (on demand)  
Six (6) laboratory hours per week.  
Prerequisites: INDT 4094, Industrial Maintenance and consent of area chairperson.  
An independent study of industrial maintenance concepts, processes and systems.  
Catalogue Placement: Page 415

- INDT 4502      Laboratory Problems: Production (3) (On demand)  
Six (6) laboratory hours per week.  
Prerequisites: INDT 4092, Manufacturing and consent of area chairperson.  
An independent study of industrial manufacturing systems, processes, and concepts.  
Catalogue Placement: Page 415
- INDT 4504      Laboratory Problems: Graphic Communication (3) (On demand)  
Six (6) laboratory hours per week  
Prerequisites: Consent of area chairperson  
An independent study of concepts, processes, tools, and materials in the field of graphic communication technology.  
Catalogue Placement: Page 415
- INDT 4505      Laboratory Problems: Electronics (3) (On demand)  
Six (6) laboratory hours per week  
Prerequisites: Consent of area chairperson  
An independent study of concepts, processes, tools, and materials in the field of electricity/electronics.  
Catalogue Placement: Page 415
- INDT 4506      Laboratory Problems: Woods Processing Technology (3) (On demand)  
Six (6) laboratory hours per week  
Prerequisites: Consent of area chairperson  
A study of selected concepts and processes in the field of woods processing technology.  
Catalogue Placement: Page 415
- INDT 4507      Laboratory Problems: Metals (3) (On demand)  
Six (6) laboratory hours per week.  
Prerequisites: Metals Processing I. INDT 1072 and/or the consent of area chairperson.  
An indepth and independent study of concepts and/or processes of the metals area, its tools and materials with a strong emphasis on laboratory work.  
Catalogue Placement: Page 415
- INDT 4508      Laboratory Problems: Power Technology (3) (On demand)  
Six (6) laboratory hours per week  
Prerequisites: Power Technology, INDT 1084, and/or the consent of area chairperson  
An independent study in power technology  
Catalogue Placement: Page 415
- INDT 4660      Construction Estimating (3) (S)  
Three (3) hours lecture per week.  
Prerequisites: INDT 3660  
Procedures used to determine the quantity of materials, manpower, and machinery needed to complete a construction project. Emphasis will be devoted to classification of work, quantity survey techniques, as well as cost estimating of labor, materials, and equipment for a building.  
Catalogue Placement: Page 415



INDT 4664

Construction Supervision (3) (S)

Three (3) hours lecture per week

Prerequisites: INDT 3660

A study of management techniques to solve the unique problems of a construction project. Stressing application and practice, the management of manpower, materials, money, and machinery will be emphasized.

Catalogue Placement: Page 415

#### SCHOOL OF MUSIC

#### 4. PROPOSED MINIMUM GRADE STANDARDS FOR APPLIED MUSIC (for Music Majors and Music Minors)

Suggested Placement:

p. 373, Undergraduate Catalog, immediately above "B.M. DEGREE":

#### Applied Music Regulations for Music Majors and Minors

Only a grade of C or higher in applied lessons on a student's major instrument will qualify as credit in the "Applied Major" guideline. The first grade lower than C must be raised the following semester, according to the procedures given in the Undergraduate Catalogue. A student will be disqualified as a music major or music minor the second time that he or she receives a grade lower than C in applied lessons on the major instrument.

2. CORRECTION IN COURSE DESCRIPTIONS OF MUSC 1105, 1115 AND 2125, 2135.

Reason for change: Currently, the course descriptions refer only to music majors, whereas the courses are actually required of both majors and minors.

(Proposed additions or word changes are underlined.)

UC, p. 393 1105, 1115. Beginning Group Piano (1,1) (F and S)  
Functional use of the piano, designed to develop piano proficiency for music majors and minors. Required of all non-keyboard music minors and those non-keyboard music majors who are not able to meet requirements for entrance into MUSC 2105. Credited as minor applied music.

UC, p. 394 2125, 2135. Basic Keyboard Skills I, II (1,1) (F,S)  
Two hours per week  
Must be taken in sequence.  
Functional use of the piano for music majors and minors whose primary performance medium is a keyboard instrument. See PEDAGOGY, above.

### 3. PROPOSED MINIMUM GRADE STANDARDS FOR PIANO PROFICIENCY COURSES

The following proposal was submitted by the Keyboard Faculty and endorsed by the Curriculum Committee.

Addition of the following to the current catalog descriptions for MUSC 1105, 1115 and 2105, 2115:

"A student must earn a minimum grade of C in each course to satisfy piano proficiency requirements."

The current catalog descriptions are:

UC, p. 393 1105, 1115. Beginning Group Piano (1,1) (F and S)  
Functional use of the piano, designed to develop piano proficiency for music majors. Required of all non-keyboard music majors who are not able to meet requirements for entrance into MUSC 2105. Credited as minor applied music.

UC, p. 394 2105, 2115. Intermediate Group Piano (1,1) (F and S)  
Prerequisite: MUSC 1115.  
Functional use of the piano, designed to develop proficiency for music majors. Required of all non-keyboard music majors who are not able to meet proficiency requirements. Successful completion of sequence satisfies piano proficiency requirements. Credited as minor applied music.

**I. PROPOSED REALIGNMENT OF VOICE AND ORGAN CONCENTRATIONS  
IN BACHELOR OF MUSIC IN CHURCH MUSIC**  
(Details of changes are noted after the Option B courses)

(UC, p. 379)

- H. Church Music . . . . .88 s.h.
- Option A: Organ Concentration
- Theory and Literature: MUSC 1156, 1166, 1176, 1186, 1406, 2156,  
2166, 2176, 2186, 2406, 2416 . . . . .24 s.h.
- Conducting: MUSC 3156, 3166 . . . . .4 s.h.
- Arranging: MUSC 3176. <sup>2</sup> . . . . .<sup>2</sup> 3 . . . . .2 s.h.
- Church Music: MUSC 5547, 5557, PSYC 5314 (Remaining 4 s.h.  
to be selected in consultation with advisor. Courses may  
be in music or general education.) . . . . .10 s.h.
- Service Playing and Pedagogy: MUSC 2125, 2135, 2517, 3627 . . . . .8 s.h.
- Organ Literature and Advanced Pedagogy: MUSC 5667, 5677 . . . . .4 s.h.
- Applied Music: . . . . .28 s.h.
1. Organ . . . . .18 s.h.
  2. Piano . . . . .5 s.h.
  3. Harpsichord. . . . .1 s.h.
  4. Voice (MUSC 3205 plus 3 s.h. of  
private study) . . . . .4 s.h.
- A Church Music major (organ concentration) must  
present a full senior recital.
- Free Electives . . . . .8 s.h.
- Performance Group Participation: 6 semesters  
The student must be a member of a large choral ensemble  
for 4 semesters. He/she may elect a large or small  
ensemble for the remaining 2 semesters.
- Option B: Vocal Concentration
- Theory and Literature: MUSC 1156, 1166, 1176, 1186, 1406, 2156,  
2166, 2176, 2186, 2406, 2416 . . . . .24 s.h.
- Conducting: MUSC 3156, 3166 . . . . .4 s.h.
- Arranging: MUSC 3176. . . . .2 s.h.
- Church Music: MUSC 5547, 5557, PSYC 5314 (Remaining 4 s.h.  
to be selected in consultation with advisor. Courses may  
be in music or general education.) . . . . .10 s.h.
- Service Playing and Pedagogy: MUSC 2517, 3287, 5627, 5947 . . . . .8 s.h.
- Choral Literature: MUSC 5906, 5916. . . . .4 s.h.
- Applied Music:
1. Voice . . . . .16 s.h.
  2. Organ . . . . .6 s.h.
  3. Piano . . . . .6 s.h.
- (To include Group Piano if necessary)
- A Church Music major (vocal concentration) must present at  
least a half senior recital.
- Free Electives . . . . .8 s.h.
- Performance Group Participation: 6 semesters  
The student must be a member of a large choral ensemble  
for 4 semesters. He/she may elect a large or small  
ensemble for the remaining 2 semesters.

The realignment of Bachelor of Music Voice and Organ Concentration courses would make the Church Music major more accessible to the voice student than it has been in the past. The principal changes for each of the options are as follows:

Organ Concentration.

Applied Music

- Delete: d. Voice (MUSC 1205 & 1215 plus 2 s.h. of private study) . . . . . 4 s.h.
- Add: 4. Voice (MUSC 3205 plus 3 s.h. of private study) . . . . . 4 s.h.

Voice Concentration.

Service Playing and Pedagogy:

Retain: MUSC 2517, Service Playing

Delete: MUSC 2125, 2135, Basic Keyboard Skills  
MUSC 3627, Organ Pedagogy

Add: MUSC 3287, Choral Laboratory  
MUSC 5627, Studio Vocal Techniques  
MUSC 5947, Choral Problems and Techniques

Delete: Organ Literature and Advanced Pedagogy:  
MUSC 5667, 5677 . . . . . 4 s.h.

Add: Choral Literature: MUSC 5906, 5976. 4 s.h.

Applied Music:

Under 3. Piano, add (To include Group Piano if necessary)

Delete: A Church Music major must present a full senior recital.

Add: A Church Music major (vocal concentration) must present at least a half senior recital.