Academic Notes

DECEMBER 18, 2000 **AN 2000-2001**

SPECIAL NOTICES

UNIVERSITY RESEARCH COMMITTEE GRANTS

The summer submission deadline for the University Research Committee Grants for 2001 is **Monday, February 5, 2001**. The Spring Submission deadline is **Monday, February 19, 2001**.

Only summer grants allow for a stipend (a taxable remuneration) in addition to the support of project expenses. Funding is typically used for small grants in support of faculty research and scholarship.

Information packets with applications are available in the Office of Sponsored Programs, Tirey Hall Room 183, or contact Sondra Wilkison at ext. 8374 or e-mail: ospwilk@amber.indstate.edu.

FACULTY GOVERNMENT

FACULTY SENATE EXECUTIVE COMMITTEE REPORT FOR DECEMBER 12, 2000

The Faculty Senate Executive Committee met at 3:15 p.m. in the Hulman Memorial Student Union (HMSU), Room 227.

Norman Hayes (Student Financial Aid) and Lee Young (Enrollment Services) provided the Committee with requested information, explained procedures in their units, and answered questions. L. Young encouraged submission of additional questions and concerns through the Faculty Senate Office.

Chair Bell reported on his attendance at the Board of Trustees retreat in Indianapolis on 12/9, and distributed a summary of compensation data from the Commission on Higher Education. The Committee directed that the information be distributed to various ISU constituencies.

The 15-minute discussion period addressed Lilly Grant funding, exam week policy violations, non-tenure-track faculty, performance-based pay options, and clarification of the late-drop policy.

The Committee approved changes to the wording of the revised Grievance Policy document, and discussed further the Evaluation of Teaching document and the FEBC recommendation on

FACULTY GOVERNEMENT-Faculty Senate Executive Committee Report: continued

performance-based pay/compaction.

The Executive Committee next meets on Tuesday, January 9, 2001 at 3:15 p.m. in the Hulman Memorial Student Union (HMSU), Room 227.

FACULTY SENATE STANDING COMMITTEES

CURRICULUM & ACADEMIC AFFAIRS COMMITTEE

The Curriculum & Academic Affairs Committee (CAAC) will meet at 3:00 p.m. on Thursday, January 11, 2001 in the Family and Consumer Sciences (FCS) Building Room 110.

AGENDA #12

I. Approval of the minutes
II. Chairperson's Report
III. General Education Committee Report
IV. Executive Committee Report
V. School of Health and Human Performance—Health and Safety (proposal to change department name to Health, Safety, and Environmental Sciences)
VI. Discussion on the CAAC task force draft document that presents a new set of recommendations concerning the role and authority of the General Education Coordinator and the role and authority of the General Education Council, as well as procedures for appointment, in light of the changes in the General Education Program
VII. College of Arts & Sciences—ARTH 388/AFRI 334—Introduction to African Art (a full review proposal to allow the course to be classified as a Multicultural Studies, International Cultures course for GE2000)
VIII. Discussion on the methodology used for approval of Articulation agreements
IX. Discussion on the allocation of credit versus actual student class hours in courses not designated as a laboratory course
X. Old Business
XI. New Business
XII. Adjournment

THESES, DISSERTATIONS, & RESEARCH PROJECTS

SCHOOL OF EDUCATION

EDUCATIONAL AND SCHOOL PSYCHOLOGY

Ms. Carol McLean will defend her dissertation entitled, *A Descriptive Survey of Social Skills Training Practices for Preschool Children with Special Needs in Indiana* at 1:30 p.m. on Tuesday January 30, 2001 in the School of Education 11th Floor Small Conference Room. The members of her committee are Dr. Lisa Bischoff, Chairperson, Dr. Linda Sperry, and Dr. William Osmon.

COUNSELING

Mr. William Andrew Hogan will defend his dissertation entitled, *Comparative Effects of Eye Movement Desensitization and Reprocessing (EMDR) and Cognitive Behavior Therapy (CBT) in the Treatment of Depression* at 2:30 p.m. on Wednesday, January 10, 2001 in the School of Education Room 1514. The members of his committee are Dr. Michele Boyer, Chairperson, Dr. D. Andrews, Dr. R. Antes, and Dr. J.L. Passmore.

OTHER ITEMS OF INTEREST

ACADEMIC NOTES PUBLICATION SCHEDULE FOR THE SPRING 2001 SEMESTER

Below is the circulation schedule for the hard copy of *Academic Notes* through April 30, 2001. An asterisk (*) indicates a curricular issue. **All submissions for inclusion in *Academic Notes* are due in the Office of Academic Affairs no later than 10:00 a.m. on the Wednesday prior to the distribution of *Academic Notes* on the following Monday, *along with a diskette with the same information in Microsoft Word format. Failure to submit a diskette containing this information will delay publication*.*** An electronic version of *Academic Notes* is available using Acrobat Reader via the ISU WebPage at – http://web.indstate/acadnotes/ –.

ACADEMIC NOTES PUBLICATION SCHEDULE

Deadline for Items	Issue Date
January 3	January 8
January 10	January 16*
January 17	January 22
January 24	January 29*
January 31	February 5
February 7	February 12*
February 14	February 19

OTHER ITEMS OF INTEREST-Publication Schedule for Spring 2001: continued

February 21	February 26*
February 28	March 5

March 7	March 12*
March 14	March 19
March 21	March 26*
March 28	April 2
April 4	April 9*
April 11	April 16
April 18	April 23*
April 25	April 30
May 2	May 7*

Please call Tiffany Trass at extension 3662 with any questions pertaining to the submission of information on a diskette.

UNDERGRADUATE PROPOSALS

COURSE REVISIONS

COLLEGE OF ARTS & SCIENCES: Chemistry

CHEM 310 Chemical Literature – 1 hour. The study and use of chemical literature as a tool in teaching and research. No laboratory. Prerequisite: successful completion of or concurrent enrollment in 352.

Change number, title, and description to:

CHEM 410 Chemical Information – 1 hour. A series of lectures and hands-on experiences in the use of printed and electronic sources of chemical information. Includes on-line searching of Chemical Abstracts as well as various other databases that are important to chemists. Prerequisite: successful completion of or concurrent enrollment in 352.

REVISIONS TO UDERGRADUATE PROGRAMS

SCHOOL OF HEALTH & HUMAN PERFORMANCE: Health & Safety

Bachelor of Science – Health and Safety Education

Executive Summary:

The Department of Health & Safety is proposing the following changes to its Health Education Major. The goal is to reduce the number of credit hours needed to complete the degree, and to meet the needs of the new guidelines for licensure of teachers. With the elimination of the minor in the new licensure guidelines, it is imperative to eliminate classes that contain repeat information, and to

UNDERGRADUATE PROPOSALS-Revision to Undergraduate Programs-B.S. Health & Safety Education: continued

combine classes where multiple goals are met. This is important so that students can complete a double major in a reasonable number of years at the university.

Summary of Proposed changes

- Change the number of credit hours in the program
  - **From** Required 32 **To** Required 30
  - **From** Electives 5-6 **To** Electives 6
  - **From** 37-38 (Total) **To** 36 (Total)

- Delete Courses
  - HLTH 400A
  - HLTH 400B

- Re-Number these 2 existing courses:
  - HLTH 400A becomes HLTH 401, HLTH 402, HLTH 403
  - HLTH 400B becomes HLTH 404, HLTH 405, HLTH 406
  - HLTH 401, HLTH 402, HLTH 403, HLTH 404, HLTH 405, and HLTH 406 are already in the listed in the Undergraduate Catalog

- Title Change for 2 existing courses
  - HLTH 313 From School Health Education to Comprehensive School Health Education
  - HLTH 327 From School Health Services to School Health for the Elementary Teacher

- Requirement Change
  - Change HLTH 327 from a requirement to an elective

- Catalog Description Change for 2 existing Courses
  - HLTH 313 add to description: **and prepares the student to plan and implement the Comprehensive School Health Education program into the school system.**

- Add the following two courses to the requirements
  - HLTH 340
  - HLTH 480

- Delete the following two courses from the requirements
  - HLTH 320
  - HLTH 360

Completion of this program gives the student teacher certification in Health Education. The curriculum needs to change in order to better prepare our students for the classrooms they will be required to lead, and in order to allow the students to maintain two majors, allowing them to be more marketable once they have completed their degree.

UNDERGRADUATE PROPOSALS-Revision to Undergraduate Programs-B.S. Health & Safety Education: continued

The new teaching standards for Health Educators indicate that the students need to show proficiency in specific areas, and meet specific criteria. For example, the new standards require students be able to use formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner; therefore, the biostatistics course is being added to the curriculum.

The new guidelines do not indicate that these standards and objectives have to be met through our program. The new curriculum allows the students to use their life and work experience to show competency in their ability and preparation as a Health Education Teacher; therefore, the change to the description of the Emergency Medical Care and Advanced First Aid course and Lab will be modified to reflect that students may receive their certification from a source outside the university.

Specific Course Revision Rationale:

- HLTH 313–*School Health Education.* Change course title from School Health Education to Comprehensive School Health Education in order to better reflect the goals and objectives of this course. Change catalog description to include additional objectives.

    - **New course description**: The field of health science instruction as a subject of public school curricula. Includes essential preparation of the health science educator, and prepares the student to plan and implement the Comprehensive School Health Education Program.

- HLTH 320–*Health Aspects of Human Ecology*. Delete this course from the major requirements. The requirements of Rule 46 are currently being met in other HLTH courses i.e., HLTH 111, HLTH 401, HLTH 402, HLTH 403, HLTH 404, HLTH 405, HLT H 406, and HLTH 392.

- HLTH 327–*School Health* Services. Change course title from School Health Services to School Health for the Elementary Teacher. A change in the current title is needed in order to reflect the content. Delete as a major requirement for school health education majors, add as an elective.

- HLTH 340–*Health Biostatistics*. Add as a requirement for the major in school health education. A statistics course is needed to better prepare the student for scholarly work, and classroom assessment.

- HLTH 360–*Epidemiology.* Delete as a requirement. The content is covered in other classes currently being taught (HLTH 340 and HLTH 221).

- HLTH 400A & HLTH 400B–Delete HLTH 400A and HLTH 400B. Change the course numbers to 401, 402, 403 & 404, 405, 406, respectively. These courses are currently being taught and are listed in the Undergraduate Catalog. This change will modify the DARs to reflect the Health Education major records. The 2000 course bulletin currently reflects this name and description change.

UNDERGRADUATE PROPOSALS-Revision to Undergraduate Programs-B.S. Health & Safety Education: continued

Existing Course New Descriptions from the Undergraduate Catalog:

- HLTH 401 *Substance Abuse Education—1 hour.* Designed to enable community and school health educators to establish sound foundations and teaching strategies in mental health and stress education.

- HLTH 402 *Mental Health and Stress Education—1 hour.* Designed to enable community and school health educators to establish sound foundations and teaching strategies in mental health and stress education.

- HLTH 403 *Communicable and Chronic Diseases, and AIDS—1 hour.* Designed to enable community and school health educators to establish sound foundations and teaching strategies in communicable and chronic diseases, and AIDS.

- HLTH 404 *Consumer Health and Quackery Education—1 hour.* Designed to enable community and school health educators to establish sound foundations and teaching strategies in consumer health and quackery education.

- HLTH 405 *Nutrition Education—1 hour.* Designed to enable community and school health educators to establish sound foundations and teaching strategies in nutrition education.

- HLTH 406 *Human Sexuality Education—1 hour.* Designed to enable community and school health educators to establish sound foundations and teaching strategies in human sexuality education.

- HLTH 480 *Senior* Seminar—*3 hours*. Supervised experience in an applied setting on campus or in the community. Majors may repeat the course one time for credit as long as the hours are in addition to the 36-hour major.

    - Add to requirements for the major. This will give the students more direct exposure to resources needed when they are teaching in the field and fulfill the community resources requirements maintained in the new teaching standards.

CURRENT CATALOG COPY

TEACHING CURRICULA

Health & Safety Major (35-36 semester hours)

This major may be added to the Senior High-Junior High / Middle School Instructional License; its coverage is grades 7–12.

Health-Safety courses: 111–3 hrs; 211–2 hrs; 211L–1 hr; 221–3 hrs; 313–3 hrs; 320–3 hrs; 323–3 hrs; 327–3 hrs; 360–3 hrs; 400A–3 hrs; 400B–3 hrs.

Electives: 5–6 hours from 300/400 level courses in Health and Safety other than those required with the School Health Education major.

UNDERGRADUATE PROPOSALS-Revision to Undergraduate Programs-B.S. Health & Safety Education: continued

Foundation courses: Life Sciences 231, 231L, 241, and 241L or Athletic Training 210 and PhysicalEducation 220 are required prerequisites on this program.

Required Professional Education: Health and Safety 392–2 hrs. is required in the Senior High – Junior High / Middle School Professional Education sequence described in the Department of Curriculum, Instruction, and Media Technology.

PROPOSED CATALGO COPY

TEACHING CURRICULA

School Health Major (36 semester hours)

This major may be added to the Senior High-Junior High / Middle School Instructional License; its coverage is grades 5–12.

Health-Safety courses: 111–3 hrs; 211– 2 hrs (or equivalent); 211L–1 hr (or equivalent); 221–3 hrs; 313–3 hrs; 323–3 hrs; 340–3 hrs; 392-3 hrs.; 401–1 hr; 402–1 hr; 403–1 hr; 404–1 hr; 405–1 hr; 406–1 hr; 480–3 hrs.

Electives: 6 hours from 300/400 level courses in Health and Safety other than those required with the School Health Education major.

Foundation courses: Life Sciences 231, 231L, 241, and 241L or Athletic Training 210 and Physical Education 220 are required prerequisites on this program.

PROGRAM COMPARISON

Required Professional Education: **Health and Safety 392–2 hrs. required in the Senior High–Junior High/Middle School Professional Education sequence described in the Department of Curriculum, Instruction, and Media Technology.**
REQUIRED CORE CLASSES

Current Program (Old)				Proposed Program (New)			
Major	**Course**	**Hrs**	**Title**	**Major**	**Course**	**Hrs.**	**Title**
HLTH	111	3	Personal Health Science and Wellness	HLTH	111	3	Personal Health Science and Wellness
HLTH	211	2	Emergency Medical Care & Advanced First Aid	HLTH	*211	2	Emergency Medical Care & Advanced First Aid
HLTH	211L	1	Advanced Emergency Medical Skill Proficiency Laboratory	HLTH	*211L	1	Advanced Emergency Medical Skill Proficiency Laboratory
HLTH	221	3	Community Health Concepts	HLTH	221	3	Community Health Concepts
HLTH	313	3	School Health Education	HLTH	313	3	Comprehensive School Health Education
HLTH	320	3	Health Aspects of Human Ecology	HLTH	320	3	**DELETE** - Health Aspects of Human Ecology
HLTH	323	3	Individual and Community Safety	HLTH	323	3	Individual and Community Safety
HLTH	327	3	School Health Services	HLTH	327	3	**DELETE** - School Health Services
				HLTH	340	3	**ADD** - Health Biostatistics
HLTH	360	3	Epidemiology	HLTH	360	3	**DELETE** - Epidemiology
HLTH	392	2	Educational Methods for Health and Safety	HLTH	^392	3	Educational Methods for Health and Safety
HLTH	400A	3	Cognitive Foundations in Health Education Seminar I	HLTH	401	1	Substance Abuse Education
				HLTH	402	1	Mental Health & Stress Education
				HLTH	403	1	Communicable & Chronic Diseases and AIDS

HLTH	400B	3	Cognitive Foundations in Health Education Seminar II	HLTH	404	1	Consumer Health and Quackery Education
				HLTH	405	1	Nutrition Education
				HLTH	406	1	Human Sexuality Education
				HLTH	480	3	**ADD** - Senior Seminar
Total		**32**		**Total**		**30**	

* Or equivalent

^ Course change at committee for approval for Community Health Major

ELECTIVES

Current Program (Old)				**Proposed Program (New)**			
Major	**Course Hrs**		**Title**	**Major**	**Course Hrs.**		**Title**
HLTH	300/400	5 – 6	Choice of Student	HLTH	300/400	6	Choice of Student
Total		**5 – 6**		**Total**		**6**	

TOTAL PROGRAM

Current Program (Old)		**Proposed Program (New)**	
Total Credit Hours	**37 - 38**	**Total Credit Hours**	**36**

* No Program change in Foundation Courses

Foundation Courses (Prerequisites for 401-406) 4-6 Credit Hours			
LIFS	231	2	Human Anatomy
LIFS	231L	1	Human Anatomy Lab
LIFS	241	2	Human Physiology
LIFS	241L	1	Human Physiology Lab
Total Credit Hours		**6**	
OR			
ATTR	210	2	Human Anatomy for Allied Health Professionals
PE	220	2	Intro to Exercise Physiology
Total Credit Hours		**4**	

* No Program change in Professional Education Courses

Professional Education Courses **32 Credit Hours**			
CIMT	200	3	Teaching I
EPSY	202	3	Psychology of Children and Adolescents
MULTI		3	See Catalog
CIMT	300	3	Teaching II
CIMT	347	1	Instructional Media for Teaching
CIMT	368	3	Readings in Content Area
HLTH	392	--	Educational Methods for Health & Safety (Hours listed under Core Req.)
CIMT	400	2	Teaching III
CIMT	401	9	Student Teaching
CIMT	442	2	Foundations of Education
PE	497	3	Exceptional Learner/ Reg. Class
OR			**OR**
SP ED	226	3	Exceptional Learner
Total Credit Hours		**32**	

COURSE REACTIVATIONS

COLLEGE OF ARTS & SCIENCES: Art

ARTH *475 Baroque and Rococo Art – 3 hours. Baroque style in Italy, Holland, Flanders, Germany, France, England, and Spain. Concentration will be on a particular area or movement and will vary from year to year.

**Course has a graduate level equivalent*

GRADUATE PROPOSALS

COURSE REVISIONS

SCHOOL OF BUSINESS: Organizational – Management Information Systems

MIS 681 Management Information Systems – 2 hours. A study of systems used to accumulate, classify, and organize information to facilitate managerial decision-making. Emphasis is placed on the planning, design, and implementation of computer augmented management information systems. Prerequisites: all foundation courses and proficiency in the computer area.

Change credit hours to:

MIS 681 Management Information Systems – 3 hours. A study of systems used to accumulate, classify, and organize information to facilitate managerial decision-making. Emphasis is placed on the planning, design, and implementation of computer augmented management information systems. Prerequisites: all foundation courses and proficiency in the computer area.

GRADUATE PROPOSALS: continued

COURSE REACTIVATIONS

COLLEGE OF ARTS & SCIENCES: Art

ARTH *575 Baroque and Rococo Art – 3 hours. Baroque style in Italy, Holland, Flanders, Germany, France, England, and Spain. Concentration will be on a particular area or movement and will vary from year to year.

**Course has an undergraduate level equivalent*

SCHOOL OF EDUCATION: Elementary & Early Childhood Education

ELED 648 Early Childhood: Comparative Study – 3 hours. Programs for young children in other countries focusing on the relationship between the program and the values the society holds. Comparisons of programs will be made with emphasis on how aspects of a program could be modified to meet the needs of children from a different culture. Foreign and domestic travel may be planned in conjunction with this course. Prerequisite: consent of instructor.

GRADUATE PROGRAM ELIMINATIONS

COLLEGE OF ARTS & SCIENCES: English

Certificate of Advanced Study in English

Abstract :

The Certificate of Advanced Study in English, a post-master's, non-degree program for advanced graduate students, requires a minimum of 30 hours of course work equally divided among three major areas: language, literature, and rhetoric/composition. This amounts to three courses in each area, plus a practicum in the area of specialization. The courses students choose should not duplicate those they have taken for the master's degree. The department wishes to delete the program because the program is inactive and can no longer be supported.

Rationale:

The department wishes to eliminate the program because it can not support it. Currently there are no students in the program; the department no longer offers enough graduate-level rhetoric/composition/writing courses for a student to fulfill the requirements in that area; and the department no longer offers the language and linguistics courses the program requires since the language and linguistics faculty have moved to the Department of Languages, Literatures, and Linguistics. Twenty years ago, when the program was started, a certificate of advanced study in English was a useful credential. Today, students are better served by the Ph.D.

GRADUATE PROPOSALS-Graduate Program Eliminations-College of A&S-English: continued

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The Certificate of Advanced Study in English, a sixth year program for advanced graduate students, requires a minimum of 30 hours of course work beyond the master's degree. Applicants for admission to the program should have a master's degree in English from an accredited college or university. Students with a master's degree in another discipline may be conditionally admitted and allowed to make up deficiencies in English.

Course work for the Certificate of Advanced Study in English is equally divided among the three major subdivisions of English studies: language, literature, and rhetoric/composition. Within each of

these three areas, however, students have some flexibility in electing courses to accommodate their professional interests and goals. Concentrations are available in general literature; writing and editing; English as a second language; and lexicography. A three-hour practicum (English 685B or English 792) is required in the area of concentration.

PROPOSED CATALOG COPY:

None. The Certificate of Advanced Study in English will no longer be offered.

UNDERGRADUATE APPROVALS

NEW COURSES

SCHOOL OF BUSINESS: Organizational – Management Information Systems

MIS 110 **Business Information Processing Systems – 3 hours.** This course provides a foundation in computer literacy necessary for today's business world. An introduction to management information systems is provided. The student will be expected to gain skills that will benefit him/her in the business world, such as use of spreadsheets and word processors. Introductory programming concepts will also be introduced via spreadsheets. Information system applications in business are explored.

COURSE PROPOSALS AND MODIFICATIONS FOR GE2000

The following courses are approved for inclusion in the revised General Education program that began Fall 2000. The courses and the corresponding General Education designations began with offerings in the summer of 2000. GE89 refers to students enrolled before summer 2000. GE2000 is for students who will be enrolled in the modified program.

COLLEGE OF ARTS & SCIENCES: Philosophy

PHIL 221 **Literature and Life – 3 hours.** Understanding how writers have imagined and

UNDERGRADUATE APPROVALS-Course Proposals and Modifications for GE2000: continued

represented human experiences through the study of recurrent themes in literature. General Education Credits [*GE89:C3; GE2000: Literary, Artistic, and Philosophical Studies-Literature and Life]*

PHIL 321 **Literature and Public Life – 3 hours.** Examining literary and artistic responses to the issues that shape public life locally and globally. *General Education Credits [GE89: C3; GE2000: Literary, Artistic, and Philosophical Studies – Literature and Life]*

COURSE REVISIONS

COLLEGE OF ARTS & SCIENCES: Mathematics & Computer Science

CS 101 **Computer Literacy - 3 hours.** Survey of the role of computing in present society, with particular attention to uses of microcomputers. Laboratory sessions will introduce practical techniques for computer use. Not open to students enrolled in curricula requiring advanced computer skills or students having completed advanced computer science courses at the high school level.

Change title and description to:

CS 101 **Information Technology Literacy - 3 hours.** Covers the core competencies in three areas: information technology basics, hardware/software, and information retrieval and evaluation. Provides students with the basic information management skills necessary to function in an electronic academic environment.

COLLEGE OF ARTS & SCIENCES: Philosophy

PHIL 321 **Philosophy and Literature – 3 hours.** Philosophical implications of significant novels, poems, and/or plays.

Change title and description to:

PHIL 321 **Literature and Public Life – 3 hours.** Examining literary and artistic responses to the issues that shape public life locally and globally.

SCHOOL OF BUSINESS: Organizational–Administrative Systems & Business Education

ASBE 125 **Information in the Electronic Age - 3 hours.** The focus is on developing information literacy to help students become knowledgeable users of the Internet and become aware of business/societal issues related to technology and electronic communication. Students will learn how to locate information electronically, evaluate and analyze information using critical analysis techniques, and communicate information using electronic media.

Change description to:

ASBE 125 **Information in the Electronic Age - 3 hours.** The focus is on developing information literacy to help students become knowledgeable users of information technology techniques and become aware of business/societal issues related to technology and electronic communication. Students will learn how to locate

UNDERGRADUATE APPROVALS-Course Revisions-School of Business-ASBE 125: continued

information electronically, evaluate and analyze information using critical analysis techniques, and communicate information using electronic media.

SCHOOL OF EDUCATION: Curriculum, Instruction & Media Technology

CIMT 272 **Introduction to Classroom Computer Use - 2-3 hours.** Designed to familiarize undergraduate education students with the microcomputer as an instructional tool. The student is expected to become familiar with the various uses teachers make of computers in classrooms, what characteristics to look for when selecting educational software, and how hardware and software can be incorporated into the instructional process.

Change credit hours to:

CIMT 272 **Introduction to Classroom Computer Use - 3 hours.** Designed to familiarize undergraduate education students with the microcomputer as an instructional tool. The student is expected to become familiar with the various uses teachers make of computers in classrooms, what characteristics to look for when selecting educational software, and how hardware and software can be incorporated into the instructional process.

SCHOOL OF HEALTH AND HUMAN PERFORMANCE: Health & Safety

HLTH 313 **School Health Education - 3 hours.** The field of health science instruction as a subject of public school curricula. Includes essential preparation of the health science educator.

Change title and description to:

HLTH 313 **Comprehensive School Health Education - 3 hours.** The field of health science instruction as a subject of public school curricula. Includes essential preparation of the health science educator, and prepares the student to plan and implement the Comprehensive School Health Education Program.

HLTH 392 **Educational Methods for Health & Safety - 2 hours.** Methods, procedures, aids, devices, and material sources appropriate for use by the health and safety educator. Prerequisites for Community Health major and minor students: 221, 380, or consent of instructor.

Change credit hours to:

HLTH 392 **Educational Methods for Health & Safety - 3 hours.** Methods, procedures, aids, devices, and material sources appropriate for use by the health and safety educator. Prerequisites for Community Health major and minor students: 221, 380, or consent of instructor.

UNDERGRADUATE APPROVALS: continued

UNDERGRADUATE PROGRAM REVISIONS

SCHOOL OF TECHNOLOGY: Industrial Technology Education

Associate Degree: Vocational Trade and Industrial Education
Approved by CAAC September 29, 2000

EXECUTIVE SUMMARY:

The proposed change would rename the degree program to Career and Technical Education. The purpose of this degree is to prepare people for successful careers in a business, industrial, or technical setting. The clientele to be served by this program are principally individuals who have an

interest in positions within business, industry, and technical studies. The curriculum of study forthis degree remains unchanged. Total number of credit hours in the degree is 62. The subject area to be covered in this degree establishes a knowledge base for the study of career and technical education, the development of student and employee performance. Unique features of the curriculum allow for the recognition of previous occupational and/or technical training. This recognition can include up to 14 semester hours of professional/occupational experience and is evaluated based on experience, license, competency test, or evaluated credit appropriate to a specialization.

RATIONALE:

During the past decade, there has been a growing realization that the term "vocational" education has a negative connotation in some people's minds. Some erroneously believe the term indicates programs for special needs, at-risk students, or for students with little academic ability. The faculty of the Industrial Technology Education Department are attempting to increase enrollment, and in conversations with prospective students, the "vocational education" label has been a concern to some students wishing to be admitted.

The issue of vocational education is being addressed on local, state, and national levels, through legislation. The Carl Perkins Act of 1998 calls for increased academic achievement. Additionally, numerous program changes are occurring that allow for increasing interdisciplinary curriculum efforts between vocational and academic programs. The 2+2+2 articulation agreements between high school vocational programs, technical/community colleges, and 4-year institutions are examples of these interdisciplinary efforts.

The perception issue with the term vocational education is also being addressed through a name change at the national level. The American Vocational Association (AVA), the leading professional association for vocational educators since the 1920's, voted in December, 1998 to change their name to the Association for Career and Technical Education (ACTE). This change was made to reflect that educational programs are focused on careers, and most, due to our technological society, are highly technical in nature.

In response to changes that are occurring at the national level, many state vocational associations are changing their organizational titles. In Indiana, the Indiana Vocational Association (IVA) voted in

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial Technology Education-A.S. Vocational Trade and Industrial Education: continued

August 1999, to change the name of its organization to the Indiana Association for Career and Technical Education (IACTE). Perhaps most importantly, the Indiana State Department of Education has changed the name of the office that addressed vocational education concerns from the Office of Career and Vocational Services to the Office of Career and Technical Education. Additionally, all teaching certificates in this area will be headed by the term "Career and Technical Education."

In order for the vocational-technical programs in the Industrial Technology Education Department to stay current with state and national professional organizations, and with the state of Indiana's own teacher licensure titles, the name of our programs of study should reflect the proper terminology being used. This will enable our program to attract students with a modern perspective and to meet our enrollment challenges.

CURRENT CATALOG COPY

ASSOCIATE DEGREE PROGRAM

Vocational Trade-Industrial-Technical Education (62 semester hours)

The associate degree program is the first two years of a four-year program. Persons completing the degree may continue in the baccalaureate program.

Required Courses:
Industrial Technology Education: 369--3 hrs.; 381--3 hrs.; 385--3 hrs.; 472--3 hrs.; 473--3 hrs.; 492--3 hrs.; plus six hours of electives.

General Education Courses:
Basic Studies English 105--3 hrs.
Communication: 101--3 hrs.;
Mathematics: 111--3 hrs.;
Liberal Studies: 15 semester hours from at least 3 core areas.

Required Occupational Experience:
14 semester hours of credit are available as listed under the Vocational Trade-Industrial Technical major. *See Vocational-Industrial-Technical Laboratory for majors options to meet this requirement.*

NEW CATALOG COPY

ASSOCIATE DEGREE PROGRAM

Vocational Trade-Industrial-Technical Education (62 semester hours)

The associate degree program is the first two years of a four-year program. Persons completing the degree may continue in the baccalaureate program.

Required Courses:

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial Technology Education-A.S. Vocational Trade and Industrial Education: continued

Industrial Technology Education: 369--3 hrs.; 381--3 hrs.; 385--3 hrs.; 472--3 hrs.; 473--3 hrs.; 492--3 hrs.; plus six hours of electives.
General Education Courses:
Basic Studies English 105--3 hrs.
Communication: 101--3 hrs.;
Mathematics: 111--3 hrs.;
Liberal Studies: 15 semester hours from at least 3 core areas.

Required Occupational Experience:
14 semester hours of credit are available as listed under the Vocational Trade-Industrial-Technical major. *See Career and Technical Education (non-teaching specialization) for options to meet this requirement.*

The following programs went through certain revisions while going through the approval process. Revisions to the approved programs are shown in ***bold-italics within bold-italic brackets

SCHOOL OF TECHNOLOGY: Industrial and Mechanical Technology

MECHANICAL TECHNOLOGY MAJOR

Approved by CAAC on October 30, 2000

EXECUTIVE SUMMARY & RATIONALE:

Courses and content in the Mechanical Technology area have changed over the past few years. This has resulted in some confusion in the course sequences, titles, and descriptions. This pro-gram revision defines the required course sequences by establishing the appropriate prerequisites, and clarifies the course content by revising titles and descriptions.

A second revision is the replacement of IMT 303 Computer Graphics with IMT 203 Introduction to Solid Modeling and add CS 156 or 256 as a requirement. This change reflects the current use of computer graphics in industry and was recommended by our advisory committee last year.

The final area of revision is the reduction of directed electives. This number has been reduced from 20 hours to 8 hours. The reduction gives the student more flexibility in selecting complimentary course work as well as maintaining the option of selecting a minor.

Revision intent

1. Eliminate any redundancy of course material and define prerequisites
2. Reflect current trends in the mechanical technology area
3. Provide more flexibility for student study

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial and Mechanical Technology-Mechanical Technology Major: continued

Course Changes

1. **IMT 203** – The name would be changed from Micro Computer Graphics to Introduction to Solid Modeling**.** The curriculum would be revised to use AutoCAD for 7 weeks and Cadkey for 7 weeks. The course would become a requirement in the Mechanical Technology major with the prerequisite of IMT 103, Introduction to Technical Graphics with CAD.

2. **IMT 299** – The course name would change from CAD Projects to CAD Fundamentals. This Course would be revised to teach the fundamentals of PC CAD. The software used in the course would be one of the software packages supported by the IMT department (AutoCAD, Cadkey or Softplan). This would allow the student to utilize software of their interest and develop applications unique to their study.

3. **IMT 301** – Renumber IMT 301 Graphic Analysis with Calculus to IMT 215. The 200 number will reflect the appropriate sequence and year the course is to be taken. This course is a prerequisite in a series of four courses.

4. **IMT 402** – Renumber and rename IMT 402 Machine Drawing to IMT 413 Applications and Gaging of Geometric Dimension and Tolerancing. The current course content addresses the use, applications, and Gaging of Geometric Tolerancing. The name change would reflect the content with is being taught. The course would then also use Pro E as the CAD software. This would allow the integration of Geometric controls into the design process of the solid model. The Number change would clearly identify the order which the courses are to be taken and at what time (3rd Year). The course would then have IMT 403 Advanced CAD Concepts as a prerequisite.

5. **IMT 303 Computer Graphics** – This course will be dropped as a requirement. The subject matter, computer programming, currently being taught in IMT 303 will become an elective course to be taken in a different department. (The course to replace IMT 303 will be CS 156 Introduction to Programming in C++ or CS 256 Principles of Structured Design).

6. **Replace MIS 276 with HLTH 212**. HLTH 212 will also address the current management needs of industrial safety being placed on our graduates.

PROGRAM CHANGES

Eliminate IMT 303 Computer Graphics and replace with student selection of CS 151 or CS 256. After discussion with the computer science department it was agreed the content in either of these two courses would address the computer language needs of our majors.

Add IMT 203 Introduction to Solid Modeling as a program requirement. This was an elective course for the Mechanical Technology major. The last advisory committee meeting it was recommended it be added as a requirement for two reasons. The first was to address the graphics needs that resulted in combining IMT 101, 2 hrs, and IMT 201, 2 hrs. The second was *UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial and Mechanical Technology-Mechanical Technology Major: continued*

to ensure a better understanding of CAD. It is possible to add this as a requirement since we dropped IMT 303 for our list of required courses.

Add the prerequisite of IMT 103 to IMT 203. This prerequisite will ensure all students have the required background for the course. The course will no longer be offered to students without some drafting background. The majors requiring IMT 203 will be instructed to take IMT 299 renamed to CAD Fundamentals.

Add the prerequisite of IMT 215 to IMT 302. This has been a recommended prerequisite for IMT 302 in the past. This will now clarify the requirements for all students.

Add the prerequisite of IMT 215 to IMT 306. This has been a recommended prerequisite for IMT 306 in the past. This will now clarify the requirement for all students.

Add the prerequisite of IMT 203 to IMT 403. Currently there is no prerequisite for IMT 403 Advanced CAD Concepts. This will better direct the order graphics classes are to be taken.

Add the prerequisite of IMT 403 to IMT 413 (Formally IMT 402) Requiring IMT 403 will allow the ProE software used in IMT 403 as the specified software for IMT 413. Not only will this eliminate confusion on software use it will also increase students proficiency in the ProE Software.

Eliminate the options A & B from the program. Currently there is the option of a minor or a concentration major. These two options have created confusion in the administration of the major. The options were added to give students the flexibility of obtaining a minor but few students have selected minors outside the School of Technology. With the elimination of these options and replacing them with the 8 hours of departmental electives, and 9 hours of general electives, most SOT minors will still be available to Mechanical Technology majors without exceeding a total of 124 hours. Minors outside the school may require a few additional hours.

Reduce the number of directed electives from 20 to 8 hours. This reduction gives students more flexibility over their curriculum. It therefore allows them to study other areas of interest while maintaining a strong area of study in the Mechanical Technology major.

Replace MIS 276 requirement with HLTH 212. With the increase in the number of transfer students the use of related software is now being addressed in the class where it is being used. The elimination of this also allows the program to address Industrial Health & Safety as recommended by our advisory committee.

Replace MATH 111 with MATH 115. This higher level of mathematics is now required by all majors to successfully complete the Mechanical Technology program.

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial and Mechanical Technology-Mechanical Technology Major: continued

COMPARISON of OLD and NEW PROGRAM

OLD	Credit Hours	NEW	Credit Hours
IMT ***[101]***	2	----	
----		IMT 103	3
IMT 130	2	IMT 130	2
IMT 201	2	----	
----		203	3
----		215	3
IMT 301	3	----	
IMT 302	3	IMT 302	3
IMT 303	3	----	
IMT 306	3	IMT 306	3
IMT 329	3	IMT 329	3

IMT 402	3	----
IMT 403	3	IMT 403 3
IMT 406	3	IMT 406 3
IMT 408	3	IMT 408 3
----		IMT 413 3
IMT 430	1	IMT 430 1
MCT 370	3	MCT 370 3
MCT 371	3	MCT 371 3
MCT 473	3	MCT 473 3
ECT 161	2	ECT ***[160]*** ***[3]***
ECT 162	2	***[---]***
MATH 111	3	***[MATH 111]*** ***[3]***
OR	**OR**	***[OR]*** ***[OR]***
MATH 201	3	MATH 115 3
OR	**OR**	
MATH 301	3	----
PHYS 105	4	***[PHYS 105***
		& 105L] ***[4]***
CHEM 100		CHEM 100
& 101L	4	& 101L 4
ENG 305T	3	ENG 305T 3
MIS 276	3	----
----		HLTH 212 3
----		CS 156
		OR 3
----		***[CS 256]***

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial and Mechanical Technology-Mechanical Technology Major: continued

ELECTIVES		**MANAGEMENT ELECTIVES**
Six Hours from:		**Six Hours from:**
MCT 374	3	MCT 374 3
MCT 471	3	MCT 471 3
MCT 478	3	MCT 478 3
MCT 492	3	MCT 492 3
IMT 405	3	IMT 405 3
IMT 480	3	IMT 480 3

ELECTIVE OPTIONS

1. Mechanical Technology Concentration:
   IMT-208, IMT 333-***[3]*** hrs.; 407-3 hrs.; 409-3 hrs.
   MCT 395 (with FORTRAN)-3 hrs.; plus 7 hours
   directed electives

DEPARTMENTAL ELECTIVES

8 hours

OR

2. Minor or minor plus directive electives

Total Required
Hours in Major 70 plus elective option 65

CURRENT CATALOG COPY

MECHANICAL TECHNOLOGY MAJOR
(70 semester hours plus elective option)

Required courses:

Industrial and Mechanical Technology: 101 – 2 hrs; 130 – 2 hrs; 201 – 2 hrs: 301 – 3 hrs; 302 – 3 hrs; 303 – 3 hrs; 306 – 3 hrs; 329 – 3 hrs; 402 – 3 hrs; 403 – 3 hrs; 406 – 3 hrs; 408 – 3 hrs; 430 – 1 hr.
Manufacturing and Construction Technology: 370 – 3 hrs; 371 – 3 hrs; 473 – 3 hrs.
Electronics and Computer Technology: 161 – 2 hrs; 162 – 2 hrs.
Mathematics: One course from 111 – 3 hrs or 201 – 3 hrs or 301 – 3 hrs.
Science: Physics 105 – 4 hrs; Chemistry 100 and 100L – 4 hrs.
English: 305T – 3 hrs.
Management and Information Systems: 276 – 3 hrs.

Electives: 6 hours from Manufacturing and Construction Technology 374 – 3 hrs; 471 – 3 hours; 478 – 3 hrs; 492 – 3 hrs; Industrial and Mechanical Technology 405 – 3 hrs; 480 – 3 hrs.

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial and Mechanical Technology-Mechanical Technology Major: continued

Elective Options: 21 semester hours

1. Mechanical Technology Concentration: Industrial Mechanical Technology 208 – hrs; 333 – 3 hrs; 407 – 3 hrs; 409 – 3 hrs; Manufacturing Construction Technology 395 (with FORTRAN) – 3 hrs; plus 7 hours directed electives.

OR

2. Minor or minor plus directed electives.

NEW CATALOG COPY

MECHANICAL TECHNOLOGY MAJOR
(65 semester hours)

Required courses:
Industrial and Mechanical Technology: 103 - 3 hrs; 130 – 2 hrs; 203 – 3 hrs: 215 – 3 hrs; 302 – 3 hrs; 306 – 3 hrs; 329 – 3 hrs; 403 – 3 hrs; 406 – 3 hrs; 408 – 3 hrs; 413 – 3 hrs; 430 – 1 hr.
Manufacturing and Construction Technology: 370 – 3 hrs; 371 – 3 hrs; 473 – 3 hrs.

Electronics and Computer Technology: 160 – 3 hrs.
Mathematics: ***[111 or]*** 115 – 3 hrs.
Science: Physics 105 and 105L – 4 hrs; Chemistry 100 and 100L – 4 hrs.
English: 305T – 3 hrs.
Health and Safety: 212 – 3 hrs.
Computer Science: 156 or ***[256]*** – 3 hrs.
Management Electives: 6 hours from Manufacturing and Construction Technology 374 – 3 hrs; 471 – 3 hours; 478 – 3 hrs; 492 – 3 hrs; Industrial and Mechanical Technology 405 – 3 hrs; 483 – 3 hrs.
Departmental Electives: 8 hrs.

SCHOOL OF TECHNOLOGY: Industrial Technology Education

VOCATIONAL T-I TECHNICAL and VOCATIONAL T-I TEACHING MAJOR

Approved by TEC on October 18, 2000
Approved by CAAC on November 27, 2000

EXECUTIVE SUMMARY:

The proposed change would combine two separate degree programs under one program with separate specializations. The proposed change would also rename the degree program to Career and Technical Education. The purpose of these specializations is to prepare people for successful employment in the classroom and laboratory as teachers, or for careers in a business, industrial, or technical setting. The clientele to be served by this program are principally individuals who have an interest in positions within business, industry, and technical studies. The curriculum of study of

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial Technology Education-Vocational T-I Technical and Vocational T-I Teaching Major: continued

these two specializations remains unchanged from their original. The total number of credit hours in the teaching specialization is 130, and 124 in the non-teaching specialization. The two specializations would share a common core of 15 credit hours. The subject area to be covered in these two specializations establish a knowledge base for the study of career and technical education, the development of occupationally based training programs, teaching and delivery strategies, and the evaluation of student and employee performance. Unique features of the curriculum allow for the recognition of previous occupational and/or technical training. This recognition can include up to 28 semester hours of professional/occupational experience and is evaluated based on experience, license, competency test, or evaluated credit appropriate to a specialization.

Note: Several minor additions have been made from the current catalog to the new catalog copy. However, these additions due not reflect curriculum changes. They reflect the School of Education policies that the Department was following for teacher licensure but were not included in the catalog. These are now being added for additional clarity. The additions include that students in the teaching curricula must successfully complete the Basic Skills Test, and that additional courses are required for licensure (i.e., Phase I, Phase II, and Phase III Professional Education Courses).

RATIONALE:

During the past decade, there has been a growing realization that the term "vocational" education has a negative connotation in some people's minds. Some erroneously believe the term indicates programs for special needs, at-risk students, or for students with little academic ability. The faculty of the Industrial Technology Education Department are attempting to increase enrollment, and in conversations with prospective students, the "vocational education" label has been a concern to some students wishing to be admitted.

The issue of vocational education is being addressed on local, state, and national levels, through legislation. The Carl Perkins Act of 1998 calls for increased academic achievement. Additionally, numerous program changes are occurring that allow for increasing interdisciplinary curriculum efforts between vocational and academic programs. The 2+2+2 articulation agreements between high school vocational programs, technical/community colleges, and 4-year institutions are examples of these interdisciplinary efforts.

The perception issue with the term vocational education is also being addressed through a name change at the national level. The American Vocational Association (AVA), the leading professional association for vocational educators since the 1020's, voted in December, 1998 to change their name to the Association for Career and Technical Education (ACTE). This change was made to reflect that educational programs are focused on careers, and most, due to our technological society, are highly technical in nature.

In response to changes that are occurring at the national level, many state vocational associations are changing their organizational titles. In Indiana, the Indiana Vocational Association (IVA) voted in August 1999, to change the name of its organization to the Indiana Association for Career and *UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial Technology Education-Vocational T-I Technical and Vocational T-I Teaching Major: continued*

Technical Education (IACTE). Perhaps most importantly, the Indiana State Department of Education has changed the name of the office that addressed vocational education concerns from the Office of Career and Vocational Services to the Office of Career and Technical Education. Additionally, all teaching certificates in this area will be headed by the term "Career and Technical Education". In order for the vocational-technical programs in the Industrial Technology Education Department to stay current with state and national professional organizations, and with the state of Indiana's own teacher licensure titles, the name of our programs of study should reflect the proper terminology being used. This will enable our program to attract students with a modern perspective and to meet our enrollment challenges.

CURRENT CATALOG COPY (general description)

VOCATIONAL-TECHNICAL EDUCATION

Vocational-Technical Education has as its primary purpose the preparation of people in jobs in jobs in an industrial society. Teachers are required to have occupational experience which is recognized as part of the degree program. This experience may be obtained prior to entry into the program or may be satisfied through a cooperative work program.

The goal of the department is to assist the student to become an effective teacher in the classroom and laboratory and to meet individual professional goals. Persons desiring teaching licensure for the secondary school of Indiana must meet the requirements of the Vocational-Trade-Industrial Technical Laboratory Major under the teaching curriculum. The Vocational-Trade-Industrial-Technical Laboratory Major does not require a teaching license. Persons not desiring teacher licensure may use program electives to meet their needs.

CURRENT CATALOG COPY (under teaching curricula)

Vocational-Trade-Industrial-Technical Laboratory Major (52 semester hours)

This major may be added to the Senior High-Junior High/Middle School Instructional License and provides coverage at all grade levels. This major requires a cumulative grade point average of 2.5.

Required Courses:

Industrial Technology Education: 369--3 hrs.; 381--3 hrs.; 481--3 hrs.; 483--3 hrs.; 492--3 hrs.
Directed Electives:
Industrial Technology Education: 472--3 hrs.; 473--3 hrs.; 385--3 hrs.
Required Professional Education:
Industrial Technology Education: 391--3 hrs. is required in the Senior High-Junior High/Middle School Professional Education Sequence described in the Department of Curriculum, Instruction, and Media Technology.

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial Technology Education-Vocational T-I Technical and Vocational T-I Teaching Major: continued

Required occupational experience and/or technical training combination: 28 semester hours. This requirement can be met by the following options:

1. Three years (6,000 clock hours) in the specific trade or occupation to be taught for the granting of 28 semester hours.

2. Two and one-half years (5,000 clock hours) in the specific trade or occupation to be taught for the granting of 24 semester hours; plus 1, 080 clock hours in a state approved secondary vocational program or approved technical courses and/or an internship for 4 semester hours.

3. Two years (4,000 clock hours) in the specific trade or occupation to be taught for the granting of 18 semester hours; plus 10 semester hours for the successful completion of one of the following: an organized apprenticeship program, a full time, two year, post-secondary vocational program, approved technical courses, or an internship.

4. One and one-half years (3,000 clock hours) in the specific trade of occupation to be taught for the granting of 14 semester hours; plus 1,080 clock hours in an approved secondary vocational program and either an organized apprenticeship program or a two-year full-time, post secondary technical vocational program for 14 program

hours.

CURRENT CATALOG COPY

PROFESSIONAL-VOCATIONAL CURRICULA

The area major, or associate degree, in vocational education may be selected by persons in industry, Indiana Vocational Technological College, and proprietary schools.

Vocational Trade-Industrial-Technical Area Major (52 semester hours)

Required Courses:
Industrial Technology Education: 369--3 hrs.; 381--3 hrs.; 385--3 hrs.; 472--3 hrs.; 473--3 hrs.; 492-- 3 hrs.
Electives: 6 hours from the Industrial Technology Education courses.
Required Occupational Experience: 28 semester hours of credit are available as listed under the Vocational-Trade-Industrial-Technical Education major:

1. Three years (6,000 clock hours) in the specific trade or occupation to be taught for the granting of 28 semester hours.
2. Two and one-half years (5,000 clock hours) in the specific trade or occupation to be taught for the granting of 24 semester hours; plus 1, 080 clock hours in a state approved secondary vocational program or approved technical courses and/or an internship for 4 semester hours.
3. Two years (4,000 clock hours) in the specific trade or occupation to be taught for the granting of 18 semester hours; plus 10 semester hours for the successful completion of one of the following: an organized apprenticeship program, a full time, two year, post-secondary vocational program, approved technical courses, or an internship.
4. One and one-half years (3,000 clock hours) in the specific trade of occupation to be taught for the granting of 14 semester hours; plus 1,080 clock hours in an approved secondary vocational program and either an organized apprenticeship program or a two-year full-time, post secondary technical vocational program for 14 semester hours.

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial Technology Education-Vocational T-I Technical and Vocational T-I Teaching Major: continued

NEW CATALOG COPY (General Descripton):

CAREER AND TECHNICAL EDUCATION

Career and Technical Education has as its primary purpose the preparation of people in careers in a business, industrial, or technical setting. The Career and Technical Education degree has two specializations. One specialization provides the necessary course work for persons desiring to become a teacher and obtain licensure for the secondary schools of Indiana. Persons desiring teaching licensure for the secondary schools of Indiana must meet the requirements of the Career and Technical Education under the teaching curriculum. The second specialization allows for in-depth

study in a technical area and prepares students for a career in a business, industrial, or technical set-setting. Both specializations require occupational experience which is recognized as part of the degree program. This experience may be obtained prior to entry into the program or may be satisfied through a cooperative work program. Persons not desiring teacher licensure may use program electives to meet their needs. ***[Note that both specializations utilize a common core of classes.]***

NEW CATALOG COPY (Under Teaching Curricula)

Career and Technical Education (Teaching Specialization) (52 semester hours)

The teaching specialization may be added to the Senior High-Junior High/Middle School Instructional License and provides coverage at all grade levels. This major requires a cumulative grade point average of 2.5 and successful completion of the Basic Skills Test.

Required Courses:
Industrial Technology Education: 369--3 hrs.; 381--3 hrs.; 481--3 hrs.; 483--3 hrs.; 492-- 3 hrs.
Directed Electives:
Industrial Technology Education: 472--3 hrs.; 473--3 hrs.; 385--3 hrs.

Required Professional Education:
Industrial Technology Education: 391--3 hrs. is required in the Senior High-Junior High/ Middle School Professional Education Sequence described in the Department of Curriculum, Instruction, and Media Technology. Additional courses are required for licensure (i.e., Phase I, Phase II, and Phase III Professional Education courses). Refer to School of Education Teaching Requirements.
UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial Technology Education-Vocational T-I Technical and Vocational T-I Teaching Major: continued

Required occupational experience and/or technical training combination: 28 semester hours. This requirement can be met by the following options:

1. Three years (6,000 clock hours) in the specific trade or occupation to be taught for the granting of 28 semester hours.

2. Two and one-half years (5, 000 clock hours) in the specific trade or occupation to be taught for the granting of 24 semester hours; plus 1, 080 clock hours in a state approved secondary vocational program or approved technical courses and/or an internship for 4 semester hours

3. Two years (4,000 clock hours) in the specific trade or occupation to be taught for the granting of 18 semester hours; plus 10 semester hours for the successful completion of one of the following: an organized apprenticeship program, a full time, two year, post-secondary vocational program, approved technical courses, or an internship.

4. One and one-half years (3,000 clock hours) in the specific trade of occupation to be taught for the granting of 14 semester hours; plus 1,080 clock hours in an approved secondary vocational program and either an organized apprenticeship program or a two-year full-time, post secondary technical vocational program for

14 semester hours.

NEW CATALOG COPY

Career and Technical Education (Non-Teaching Specialization) (52 semester hours)
The non-teaching specializations prepares people for successful employment in business, industrial, or technical settings.

Required Courses:
Industrial Technology Education: 369--3 hrs.; 381--3 hrs.; 385- -3 hrs.; ***[472--3 hrs.; 473- -3 hrs.;]*** 492-- 3 hrs.

Directed Electives:
[6 hours from the Industrial Technology Education courses. 25 hours (minor or electives) with advisor approval.]
Required Occupational experience and/or technical training combination: 28 semester hours. This requirement can be met by the following options:

1. Three years (6,000 clock hours) in the specific trade or occupation to be taught for the granting of 28 semester hours.

2. Two and one-half years (5,000 clock hours) in the specific trade or occupation to be taught for the granting of 24 semester hours; plus 1, 080 clock hours in a state approved secondary vocational program or approved technical courses and/or an

UNDERGRADUATE APPROVALS-Program Revisions-School of Technology-Industrial Technology Education-Vocational T-I Technical and Vocational T-I Teaching Major: continued

internship for 4 semester hours.

3. Two years (4,000 clock hours) in the specific trade or occupation to be taught for the granting of 18 semester hours; plus 10 semester hours for the successful completion of one of the following: an organized apprenticeship program, a full time, two year, post-secondary vocational program, approved technical courses, or an internship.

4. One and one-half years (3,000 clock hours) in the specific trade of occupation to be taught for the granting of 14 semester hours; plus 1,080 clock hours in an approved secondary vocational program and either an organized apprenticeship program or a two-year full-time, post secondary technical vocational program for 14 program hours.

COURSE DELETIONS

SCHOOL OF HEALTH AND HUMAN PERFORMANCE: Health & Safety

HLTH 400A Cognitive Foundations in Health Education Seminar I – 3 hours. Designed to enable health educators to establish sound foundations in contemporary health science. The first of two seminars directed toward study of contemporary health science literature. Prerequisites: Life Sciences 231 and 241.

HLTH 400B Cognitive Foundations in Health Education Seminar II – 3 hours. Designed

to enable health educators to establish sound foundations in contemporary health science. Prerequisites: Lifes Sciences 231 and 241.

GRADUATE APPROVALS

NEW COURSES

COLLEGE OF ARTS & SCIENCES: Life Sciences

LIFS *508L General Immunology Laboratory – 1 hour. An experimental approach to the topics considered in 408/508. Prerequisite: successful completion of or concurrent enrollment in 408/508.

**Course has an undergraduate level equivalent*

SCHOOL OF BUSINESS: Analytical - Quality and Decision Systems

QDS *525 Business Forecasting - 3 hours. An introduction for developing forecasts for time series data. Forecasting techniques such as smoothing methods, regression, decomposition, and ARIMA models will be covered. Students will learn how to evaluate

GRADUATE APPROVALS-New Courses-School of Business-QDS 525: continued

forecasts, and will examine forecasts from industry and government.

* *Course has an undergraduate level equivalent*

QDS *535 Decision Modeling - 3 hours. An introduction to the application of management science techniques to business decisions. Students will learn the assumptions and techniques necessary to apply and to implement solutions from optimization and other decision science models. The focus of the course is on problem solving, which includes problem definition, evaluation, and choice of alternatives, and implementation and evaluation of the decision. Prerequisite: BUS 305 with a minimum grade of C or consent of MBA coordinator.

* *Course has an undergraduate level equivalent*

QDS *570 Computer Simulation of Business Systems - 3 hours. An introduction to the concepts and tools needed to intelligently analyze complex business processes through computer simulation. The statistical concepts and logic needed to accurately model a real-world process form the basis for learning in this course. These are applied to hypothetical and real-world business processes through the use of a common simulation software package, such as GPSS or Process Model. Additionally, the concepts of experimental design and analysis needed to meaningfully interpret the results of simulation experiments are presented. Upon completion of the course, students will be able to accurately predict the effect of management decisions relevant to such systems. Prerequisites: BUS 305 and MIS 310 or MIS 376 or consent of the MBA Coordinator.

* *Course has an undergraduate level equivalent*

COURSE REVISIONS

COLLEGE OF ARTS & SCIENCES: Life Sciences

LIFS *508 General Immunology with Laboratory – 4 hours. General Immunology.
Change title, description, credit hours, and prerequisites to:
LIFS *508 General Immunology – 3 hours. Lectures in general immunology. Prerequisite: successful completion of or concurrent enrollment in *508L.
**Course has an undergraduate level equivalent*

CORRECTIONS

*******The following is a ***correction of the text*** that appeared as a **PROPOSAL** in the December 4, 2000 issue of *Academic Notes*. The corrected portion is shown ***[in bold-italics within bold-italic brackets]***.*******

COURSE REVISIONS

COLLEGE OF ARTS & SCIENCES: Mathematics and Computer Science

MA*[TH]* 212 Mathematics of Finance – 3 hours. Compound interest, annuities, depreciation, valuation, etc…, as used in economics and business.
Change number, title, description, and ***[prerequisites]*** *to:*
MA*[TH 102]* Quantitative Literacy – 3 hours. Interpret formulas, graphs, and tables to draw inferences from them. Represent mathematical information symbolically, visually, numerically, and verbally. Use arithmetic, algebraic, geometric, statistical and financial computational methods to solve problems. Determine reasonableness of answers and select optimal results. Recognize mathematical and statistical limits of methods. Prerequisite: MATH 011 or equivalent.