



Academic Notes

OCTOBER 18, 2004

AN 2004-2005

****SPECIAL NOTICES****

SUMMER HONORS PROGRAM PROPOSALS

The Summer Honors Program is now seeking new seminar proposals for 2005. Faculty members interested in teaching a two-week seminar from July 10-22 are encouraged to prepare and submit a proposal. The proposal should include as a minimum: proposed budget indicating departmental support and outside support required along with departmental approval. Proposals should reach Kimberly LaComba, Tirey Hall, Room 134H by October 22, 2004. If you have further questions, please contact Kimberly at x2509 or e-mail her at admlacom@isugw.indstate.edu

ACADEMIC NOTES PUBLICATION SCHEDULE FOR FALL 2004

Below is the circulation schedule for the hard copy of *Academic Notes* through December 13, 2004. 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^a prior to the distribution of *Academic Notes* on the following Monday, along with an E-Mail or 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 Web Page at – <http://web.indstate.edu/acadnotes/> –.**

ACADEMIC NOTES PUBLICATION SCHEDULE FOR FALL 2004

<u>Deadline for Items</u>	<u>Issue Date</u>
Oct 20	Oct 25
Oct 27*	Nov 1*
Nov 3	Nov 8
Nov 10*	Nov 15*
Nov 17	Nov 22
Nov 23* ^a	Nov 29*
Dec 1	Dec 6
Dec 8*	Dec 13*

^aDue to holidays, the dates for submission and publication have been moved up or back a day.

CURRICULUM TRACKING

Curriculum tracking is available at <http://www.indstate.edu/acad-aff/tracking.html>. This feature allows you to find the location of any curriculum proposal in the approval process once it has been sent to the Office of the Provost and Vice President for Academic Affairs. All courses in a department are located in the same Excel workbook but divided by level on separate spreadsheets. The course level is indicated at the bottom of the spreadsheet. The website is updated by 4:30 p.m. each business day. After a proposal has been approved, it is removed the next semester from the Web site to keep the lists at a reasonable length. If you have any questions about this feature, please contact Lori Cheatham at x3662.

FACULTY GOVERNMENT

FACULTY SENATE EXECUTIVE COMMITTEE REPORT FOR OCTOBER 12, 2004

The Faculty Senate Executive Committee met Tuesday, October 12, 2004, in HMSU 227.

President Benjamin reported that the State Budget Committee has decided that all educational institutions will participate in the State's drug program pool, as of January 2005. He stated that he will be going to the budget hearing Thursday, and he reported briefly on his most recent trip to Morocco.

Provost Maynard updated the Committee on faculty searches this year; the separation of VU and IVYTECH; international delegate on campus; Sycamore Preview;

H. Hudson commented that the Benefits Committee has been set up and that she has not received a response from B. House to the request for faculty representation at the Board meetings; reported the allocations for the URC and AEC awards; commented that standing committees are having trouble finding meeting times; reported on the officers' meeting with the Provost.

Fifteen minute open discussion

- special purpose faculty status;
- ISU's cost to State compared to other institutions;
- searches.

Committee Actions

- approved minutes, 7-0-2;
- after much discussion, moved to forward the Committee modifications of the Faculty Satisfaction Survey to AAC, 8-0-1;
- discussed handbook language for the Sabbatical Leaves Policy; moved to table, 8-0-1;
- accepted as received letter from FEBC on payroll/loan issues associated with faculty death, 8-0-1;
- motion to send OIT's executive summary on notebook initiative to CAAC approved, 8-0-1.

For the next meeting the Committee will continue/complete handbook language for the Leaves Policy.

The meeting was adjourned at 5:40.

**INDIANA STATE UNIVERSITY
FACULTY SENATE
EXECUTIVE COMMITTEE**

The Executive Committee of the University Faculty Senate will meet at 3:15 p.m. on Tuesday, October 19, 2004, in Hulman Memorial Student Union 227.

Agenda

- I. Administrative Report
- II. Chair Report
- III. Fifteen Minute Open Discussion
- IV. Approval of the Minutes
- V. Old Business
 - Sabbatical leaves Handbook Language
- VI. New Business
- VII. Standing Committee Reports

**INDIANA STATE UNIVERSITY
FACULTY SENATE**

The University Faculty Senate will meet at 3:15 p.m. on Thursday, October 21, 2004, in Dede III.

Agenda

- I. Memorial:
 - Richard Spear
- II. Administrative Report
 - Information Presentation: ISU Notebook Initiative
- III. Chair Report
- IV. SGA Report
- V. Fifteen Minute Open Discussion
- VI. Approval of the Minutes
- VII. Sabbatical Leaves Policy Handbook Language*
- VIII. Old Business
- IX. New Business
- X. Standing Committee Reports

*Pending Executive Committee action on October 19, 2004.

FACULTY GOVERNMENT: continued

FACULTY SENATE STANDING COMMITTEES

STUDENT AFFAIRS COMMITTEE

The Student Affairs Committee will meet Wednesday October 20 at 8 am in the Library, Room 028 [Lower Level] [Chair, Marsha Miller, Library; marshamiller@indstate.edu]

Additional meetings: Thursday November 11, Friday December 10 [same time & place].

AGENDA

- I. Call to Order
- II. Adoption of the Agenda
- III. Approval of the Minutes of September 8, 2004
- IV. Reports
 - a. Chairperson
 - b. Faculty Senate Liaison
 - c. Administrative
 - d. Student Representative
- V. Old Business
 - a. Charge: Administer publicize and solicit contributions to the Faculty Scholarship
 - b. Review of other charges
- VI. New Business

CURRICULUM

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UNDERGRADUATE PROPOSALS

COURSE REVISIONS

COLLEGE OF HEALTH AND HUMAN PERFORMANCE: Health, Safety, and Environmental Health Sciences

***HLTH 415A Driver Education--3 hours.** Designed to prepare teachers and administrators in methods, materials, and administrative techniques related to effective driver education in the schools. Prerequisite: 323 or current enrollment in same.

Change Description, title, and prerequisites to:

***HLTH 415A Driver Education Task Analysis--3 hours.** The candidate will learn and demonstrate knowledge of the laws, strategies, and principles that affect use of the Highway Transportation System. They will learn strategies for working with novice, experience, and return drivers. Prerequisites: a valid Indiana Driver's License or consent of the instructor, passing a limited criminal history from the Indiana State Police. Teacher Education students need to have at least a 2.5 grade average.

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

***HLTH 415B Laboratory Programs in Driver and Traffic Safety Education--3 hours.** A technical examination of the aims, objectives, and role of laboratory programs in driver and traffic safety education. A supervised student teaching experience.

Change Description and title to:

***HLTH 415B Developing Driver Kills and Competencies--3 hours.** The candidate will be guided in the development of laboratory lesson plans and strategies for giving effective instruction to students with diverse needs. Under the guidance of a mentor, the candidate will provide instruction to novice drivers for six clock hours of planned instruction with a performance evaluation at the end by the instructor and the mentor. They will prepare individuals to know and show how to be responsible highway users. Prerequisites: HLTH 4/515A or concurrent enrollment.

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

***HLTH 445 Innovative Teaching Techniques for Driver and Traffic Safety--3 hours.** Designed to prepare teachers to become competent in using simulation, radio communication, driving range, and program learning as integral parts of the high school driver and traffic safety education program.

Change Description, title, and prerequisites to:

***HLTH 445 Developing Classroom Knowledge and Program Management--3 hours.**

Candidates will participate in planning and implementing driver education program components, including: curriculum development, classroom presentation, marketing, program evaluation, scheduling, community involvement, parent mentoring, current

UNDERGRADUATE PROPOSALS: Course Revisions – HLTH 445 – continued

state and federal opportunities and special programs and challenges in traffic safety.
Prerequisites: HLTH 4/515A and HLTH 4/515B or concurrent registration.

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

COURSE REACTIVATIONS

COLLEGE OF ARTS AND SCIENCES: History

HIST 353 Medieval Europe --3 hours. A study of the development of medieval Europe from the fall of the Western Roman empire to the dawn of the Renaissance. Topics dealt with include the formation of a new European civilization that was a synthesis of the Greco- Roman, Judeo-Christian, and Germanic traditions, the varieties of Christianity in the West and East, the revival of commerce and growth of capitalism, and the cultural institutions that determined the European character.

Change description to:

HIST 353 Medieval Europe --3 hours. A study of the development of medieval Europe from the disintegration of the Western Roman empire to the dawn of the early modern era. Topics dealt with include the formation of a new European civilization that was a synthesis of the Greco- Roman, Judeo-Christian, and Germanic traditions, the varieties of Christianity in the West and East, the revival of commerce and growth of capitalism, and the cultural institutions that determined the European character.

Preferred Effective Term: Spring 2005

PROGRAM REVISIONS

COLLEGE OF HEALTH AND HUMAN PERFORMANCE

Health, Safety, and Environmental Health Sciences

Driver Education License

Eliminate Old Title: Driver Education Endorsement CIP 131307

Change to: Driver Education License CIP 131307

Executive Summary:

The Indiana Department of Education and Professional Standards Board approved a new Driver Education License to replace the Driver Education Endorsement. The change included reducing the initial

hours from 12 to 9 and requiring continuing education for license renewal. The criteria will continue to be aligned with the American Driver and Traffic Safety Education Association's National Standards recommendation for Driver Education Instructor Preparation. Indiana State University is currently using materials from this program in its instructor preparation program. The purpose of the proposal is to bring the practice in line with the changes at the state level.

UNDERGRADUATE PROPOSALS: Driver Education – continued

Rationale:

The Indiana Department of Education and the Indiana Professional Standards Board have established new standards that have three parts, knowledge, performance and disposition. The changes in the courses that are being recommended reflect the changes in the standards prescribed by the Professional Standards Board. With the requirement of continuing education the instructors will be encouraged to improve or voluntarily leave the program. This revision continues to keep Indiana State University as a leader in the state and nation in driver education instructor preparation.

CATALOG COMPARISON

DRIVER EDUCATION LICENSE	
Old: Driver Education Endorsement	New: Driver Education License
HLTH 4/515A Driver Education 3 cr.	HLTH 4/515A Driver Education Task Analysis 3 cr.
HLTH 4/515B Driver Education Laboratory 3 cr.	HLTH 4/515B Developing Driver Skills and Driver Competencies 3 cr.
HLTH 4/545 Innovative Teaching Techniques 3 cr.	HLTH 4/545 Developing Classroom Knowledge in Driver Education 3 cr.
HLTH 4/546 Individual, Community and General Safety Education 3 cr.	<u>Total 9 credit hours plus continuing education</u>
	<u>Elective for Professional Development</u>
Total 12 credit hours	<i>HLTH 4/546 Individual, Community and General Safety Education 3 cr.</i>
No specific continuing education required.	<i>HLTH 4/527 Special Subjects in Health and Safety 1-3 cr.</i>
	<i>HLTH 603 Special Topics in Health and Safety 1-6 cr.</i>
	<i>The student will be required by the Indiana Professional Standards Board to complete continuing professional development for license renewal.</i>
	<i>HLTH 446 is required for School Health Majors and is an elective for other programs.</i>
	<i>Student must complete an education degree to work in the public schools and complete the 9 hour Driver Education License requirement.</i>

	<i>To work in the commercial schools they must successfully complete at least 48 semester hours plus the 9 hour Driver Education License requirement.</i>
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Preferred Effective Term: Spring 2005

UNDERGRADUATE PROPOSALS: continued

PROGRAM SUSPENSIONS

COLLEGE OF ARTS AND SCIENCES

Family and Consumer Sciences

Food and Nutrition – Option C: Food and Nutrition

Summary and Rationale:

This program option has had very low enrollment for many years and is not really considered viable. Most students who begin in this option change to either Option A. Dietetics or Option B. Food Service Management. Faculty members wish to suspend this option while they explore possibilities of revising it to be more relevant for current societal needs.

CURRENT CATALOG COPY

Option C: Food and Nutrition Major (52 semester hours)

Required courses: 21 hour Food and Nutrition base.

Food and Nutrition: 421--3 hrs.; 9 hours of 300-400 level electives.

Chemistry: 321--4 hrs.; 330--4 hrs.; 351--3 hrs., 351L--1 hr.; 352--3 hrs., 352L--1 hr.

Life Sciences: 241--2 hrs.; 241L--1 hr.

NOTE: Students must take Chemistry 105--3 hrs.; 105L--1 hr.; 106--3 hrs.; 106L--1 hr. as prerequisites for upper level Chemistry courses. These courses meet the 8 hours of the University Liberal Studies requirement. Students completing the major will have satisfied the Liberal Studies Scientific and Mathematical Studies requirement.

PROPOSED CATALOG COPY

None.

Preferred Effective Term: Spring 2005

COLLEGE OF ARTS AND SCIENCES

Family and Consumer Sciences

Interior Design Minor

Summary and Rationale:

It is proposed that the Interior Design minor be suspended. The Interior Design Minor has been pursued by only one student in five years and provides no recognizable value within the profession. Pursuing courses offered through the community college system rather than diluting the quality of the ISU interior design major would better serve students.

UNDERGRADUATE PROPOSALS: Program Suspensions – Interior Design Minor – continued

CURRENT CATALOG COPY

This minor may be combined with a major in another area, but it is not recognized as preparation for a profession in interior design.

Interior Design: 150-2 hrs.; 151-3 hrs.; 152-3 hrs.; 250-3 hrs.; 251—3 hrs.; 252-3 hrs.; 260-3 hrs.; 458-3 hrs.

Art: 102-3 hrs

PROPOSED CATALOG COPY

None.

Preferred Effective Term: Spring 2005

COLLEGE OF ARTS AND SCIENCES

Family and Consumer Sciences

Interior Design – Option B: Facility Management

Summary and Rationale:

It is proposed that Option B: Facility Management be suspended. The Facility Management option does not comply with the standards for accrediting interior design programs as published by the Foundation for Interior Design Education Research (FIDER).

CURRENT CATALOG COPY

Option B: Facility Management (68 semester hours)

Required courses: 9 hour Family and Consumer Science core.

Interior Design: 150-2 hrs.; 151-3 hrs.; 152-3 hrs.; 250-3 hrs.; 251-3 hrs.; 260-3hrs.; 262- 3hrs.; 353-3 hrs.; 451-3 hrs.; 452-3 hrs.; 458-3 hrs.

Art: 102-3 hrs.

Industrial and Mechanical Technology: 299-3 hrs.

Directed Electives (21 hours from the following): Accounting 200-3 hrs.; Administrative Systems/Business Education 330-3 hrs.; Finance 200-3 hrs.; Finance 345-3 hrs.; Insurance 340-3 hrs.;

343-3 hrs.; Mechanical and Construction Technology 313-3 hrs.; Management 301-3hrs.; Management 400-3 hrs.; Management Information Systems 276-3 hrs.; Psychology 315-3 hrs.; Systems and Decisions Sciences 265-3 hrs.

*Indicates prerequisites included in the curriculum.

PROPOSED CATALOG COPY

None.

Preferred Effective Term: Spring 2005

UNDERGRADUATE PROPOSALS: Program Suspensions – continued

COLLEGE OF ARTS AND SCIENCES

Family and Consumer Sciences

Interior Design – Option C: Interior Merchandising

Summary and Rationale:

It is proposed that Option C: Interior Merchandising is suspended. The Interior Merchandising option does not comply with the standards for accrediting interior design programs as published by the Foundation for Interior Design Education Research (FIDER).

CURRENT CATALOG COPY

Option C: Interior Merchandising (68 semester hours)

Required courses: 9 hours Family and consumer Sciences core.

Interior Design: 150-2 hrs.; 151-3 hrs.; 152-3 hrs.; 250-3 hrs.; 252-3 hrs.; 260-3 hrs.; 354-3 hrs.; *454-3 hrs.; 458-3 hrs.

Textiles, Apparel, and Merchandising: 217-3 hrs.; 313-3 hrs.; 416-3 hrs.; *417-3 hrs.

Marketing: 301-3hrs.; *344-3 hrs.; *345-3 hrs.; *353-3 hrs.;

Art: 102-3 hrs.; *271 or 272-3 hrs.

Industrial and mechanical technology: 299-3 hrs.

*Indicates prerequisites included in the curriculum.

PROPOSED CATALOG COPY

None.

Preferred Effective Term: Spring 2005

GRADUATE PROPOSALS

COURSE REVISIONS

COLLEGE OF ARTS AND SCIENCES: Family and Consumer Sciences

***FCS 521 Nutrition through the Lifecycle**--3 hours. Social-psychological, and physiological aspects of nourishing healthy individuals throughout the life cycle. **Prerequisites: FCS 201 or 221.**

Change description and credit hours to:

***FCS 521 Nutrition through the Lifecycle**--4 hours. Social, psychological, and physiological aspects of nourishing healthy individuals; investigation of the dynamics of the community and the relationship of nutrition services to the needs throughout the life cycle. **Prerequisites: FCS 201 or 221.**

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

GRADUATE PROPOSALS: Course Revisions – continued

COLLEGE OF HEALTH AND HUMAN PERFORMANCE: Health, Safety, and Environmental Health Sciences

***HLTH 515A Driver Education**--3 hours. Designed to prepare teachers and administrators in methods, materials, and administrative techniques related to effective driver education in the schools. Prerequisite: 323 or current enrollment in same.

Change Description, title, and prerequisites to:

***HLTH 515A Driver Education Task Analysis**--3 hours. The candidate will learn and demonstrate knowledge of the laws, strategies, and principles that affect use of the Highway Transportation System. They will learn strategies for working with novice, experience, and return drivers. Prerequisites: a valid Indiana Driver's License or consent of the instructor, passing a limited criminal history from the Indiana State Police. Teacher Education students need to have at least a 2.5 grade average.

Preferred Effective Term: Spring 2005

**Course has a undergraduate level equivalent*

***HLTH 515B Laboratory Programs in Driver and Traffic Safety Education**--3 hours. A technical examination of the aims, objectives, and role of laboratory programs in driver and traffic safety education. A supervised student teaching experience.

Change Description and title to:

***HLTH 515B Developing Driver Kills and Competencies**--3 hours. The candidate will be guided in the development of laboratory lesson plans and strategies for giving effective instruction to students with diverse needs. Under the guidance of a mentor, the candidate will provide instruction to novice drivers for six clock hours of planned instruction with a performance evaluation at the end by the instructor and the mentor. They will prepare individuals to know and show how to be responsible highway users. Prerequisites: HLTH 4/515A or concurrent enrollment.

Preferred Effective Term: Spring 2005

**Course has a undergraduate level equivalent*

***HLTH 545 Innovative Teaching Techniques for Driver and Traffic Safety--3 hours.** Designed to prepare teachers to become competent in using simulation, radio communication, driving range, and program learning as integral parts of the high school driver and traffic safety education program.

Change Description, title, and prerequisites to:

***HLTH 545 Developing Classroom Knowledge and Program Management--3 hours.** Candidates will participate in planning and implementing driver education program components, including: curriculum development, classroom presentation, marketing, program evaluation, scheduling, community involvement, parent mentoring, current state and federal opportunities and special programs and challenges in traffic safety. Prerequisites: HLTH 4/515A and HLTH 4/515B or concurrent registration.

Preferred Effective Term: Spring 2005

**Course has a undergraduate level equivalent*

GRADUATE PROPOSALS: continued

COURSE BANKING

COLLEGE OF ARTS AND SCIENCES: History

HIST 502 Travel Study in History--2-6 hours. Directed study in history in selected geographic areas. Lectures, on-site visits, and independent research. May be repeated once for a different tour with the consent of the graduate advisor. Prerequisite: consent of instructor.

Preferred Effective Term: Fall 2005

HIST 507 Archival Administration: Internship--3 hours. Internship experience in a local records repository will offer students practical experience in archival work. Interns will undergo a brief training period in the unique aspects of particular repositories for records collections. Specific projects in arrangement and description of records, and the creation of finding aids, will be assigned. Particular application of knowledge and technical skills will be stressed. Prerequisite: 405-506.

Preferred Effective Term: Fall 2005

HIST 569 The Austrian Empire and Its People, 1815-1918--3 hours. The main theme of the course is the struggle of the Habsburg monarchy to preserve itself as a supranational, multicultural state against the revolutionary forces of nationalism. The creative as well as destructive interplay between ethnicity and supranationalism will be stressed. Moreover, the Habsburg legacy to cultural modernism and European union will also be discussed.

Preferred Effective Term: Fall 2005

COURSE ELIMINATIONS

COLLEGE OF ARTS AND SCIENCES: History

HIST 545 Latin America: The National Era--3 hours. Latin American society in the nineteenth and twentieth centuries, with emphasis on the problems of social and political development.

Preferred Effective Term: Fall 2005

HIST 575 History of Communism -- 3 hours. A historical evaluation of the theory and the practice of communism from Marxism to Leninism and Maoism.

Preferred Effective Term: Fall 2005

GRADUATE PROPOSALS: continued

PROGRAM REVISIONS

COLLEGE OF HEALTH AND HUMAN PERFORMANCE

Health, Safety, and Environmental Health Sciences

Driver Education License

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Executive Summary:

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Rationale:

The Indiana Department of Education and the Indiana Professional Standards Board have established new standards that have three parts, knowledge, performance and disposition. The changes in the courses that are being recommended reflect the changes in the standards prescribed by the Professional Standards Board. With the requirement of continuing education the instructors will be encouraged to improve or voluntarily leave the program. This revision continues to keep Indiana State University as a leader in the state and nation in driver education instructor preparation.

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HLTH 4/545 Innovative Teaching Techniques 3 cr.	HLTH 4/545 Developing Classroom Knowledge in Driver Education 3 cr.
HLTH 4/546 Individual, Community and General Safety Education 3 cr.	<u>Total 9 credit hours plus continuing education</u>
	<u>Elective for Professional Development</u>
Total 12 credit hours	<i>HLTH 4/546 Individual, Community and General Safety Education 3 cr.</i>
No specific continuing education required.	<i>HLTH 4/527 Special Subjects in Health and Safety 1-3 cr.</i>
	<i>HLTH 603 Special Topics in Health and Safety 1-6 cr.</i>
	<i>The student will be required by the Indiana Professional Standards Board to complete continuing professional development for license renewal.</i>
	<i>HLTH 446 is required for School Health Majors and is an elective for other programs.</i>
	<i>Student must complete an education degree to work in the public schools and complete the 9 hour Driver Education License requirement.</i> <i>To work in the commercial schools they must successfully complete at least 48 semester hours plus the 9 hour Driver Education License requirement.</i>

Preferred Effective Term: Spring 2005

UNDERGRADUATE GENERAL EDUCATION APPROVALS

COURSE REVISIONS

COLLEGE OF ARTS AND SCIENCES: Humanities

HUM 170 **Humanities and the Modern World**--3 hours. An introduction to the study of the humanities. The course deals with questions and issues raised by the humanities in the modern world. **General Education Credits [GE89: B1, c1, D1; GE2000: Literary, Artistic, and Philosophical Studies Elective].**

Change title to:

LLL 170 **Humanities and the Modern World**--3 hours. An introduction to the study of the humanities. The course deals with questions and issues raised by the humanities in the modern world. **General Education Credits [GE89: B1, c1, D1; GE2000: Literary, Artistic, and Philosophical Studies Elective].**

Preferred Effective Term: Spring 2005

UNDERGRADUATE GENERAL EDUCATION APPROVALS: Course Revisions – continued

COLLEGE OF ARTS AND SCIENCES: Music

MUS 350 **Music History I**--2 hours. Music of Western Civilization from the Greeks through J.S. Bach. Three class hours a week. Prerequisites: 151, 211, and 213; or consent of instructor. *[GE2000: Capstone Course]*

Change description to:

MUS 350 **Music History I**--2 hours. Music of Western Civilization from the Greeks through J.S. Bach. MUS 350 in conjunction with MUS 351 serves as the General Education Capstone requirement for music majors. Three class hours a week. Prerequisites: 151, 211, and 213; or consent of instructor. *[GE2000: Capstone Course]*

**Preferred Effective Term: Fall 2004*

MUS 351 **Music History II**--2 hours. Music from J.S. Bach to the present. Three class hours a week. Three class hours a week. Prerequisites: 212, 214, and 350; or consent of instructor. *[GE2000: Capstone Course]*

Change description to:

MUS 351 **Music History II**--2 hours. Music from J.S. Bach to the present. MUS 350 in conjunction with MUS 351 serves as the General Education Capstone requirement for music majors. Three class hours a week. Prerequisites: 212, 214, and 350; or consent of instructor. *[GE2000: Capstone Course]*

**Preferred Effective Term: Fall 2004*

COLLEGE OF NURSING: Nursing

NURS 486 **Professional Nursing Synthesis**--3 hours. This course serves as the capstone course for the integration, synthesis, and reflection of professionalism, professional goals, and professional nursing practice informed through multiple ways of knowing and experiences grounded in historical, literary, artistic, scientific, and technological perspectives. Issues and trends germane to contemporary nursing are explored. Social forces, including economic,

political, legal, and ethical points influencing decisions in nursing and health care policy are examined. Health care delivery systems are analyzed with respect to concepts of management, leadership, and nursing roles. Leadership and change theory are used as a basis for developing strategies to create social change in regard to health care systems. Emphasis is placed on refinement of critical thinking and communication competencies, enhancement of individual values and beliefs, and appreciation for lifelong learning. Three classroom hours per week.

Change description to:

NURS 486 Professional Nursing Synthesis--3 hours. This course serves as the capstone course for the integration, synthesis, and reflection of professionalism, professional goals, and professional nursing practice informed through multiple ways of knowing and experiences grounded in historical, literary, artistic, scientific, and technological perspectives. Issues and trends germane to contemporary nursing are explored. Three classroom hours per week. Prerequisites: 424 and 450; or 450 and 470. Must be taken as last course in the last semester of the program. [GE 2003: Capstone Course]

Preferred Effective Term: Fall 2004

UNDERGRADUATE APPROVALS

COURSE REVISIONS

COLLEGE OF ARTS AND SCIENCES: Family and Consumer Sciences

FCS 109 Lifespan Development and Nutrition--3 hours. An overview of development and nutritional principles and their application to individual and family change over the lifespan.

Change title, description, and prerequisites to:

FCS 109 Human Systems in Family and Consumer Sciences--3 hours. Interrelationships among individuals, families, consumers, and communities as taught in human systems theory and lifespan development. **Prerequisite: 107.**

Preferred Effective Term: Spring 2005

FCS 251 Interior Design Studio I--3 hours. Application of human factors to three-dimensional design. Exploration of space and volume. Prerequisite: 151, 152.

Change description and prerequisites to:

FCS 251 Interior Design Studio I--3 hours. Introduction and development of the design process through the exploration of abstract and realistic problem solving applications. Design solutions shall be presented through the development of two and three dimensional presentation techniques.

Preferred Effective Term: Spring 2005

FCS 262 Interior Lighting and Color Theory--3 hours. Lecture and studio applications of technical, aesthetic, and psychological uses of light, lighting fixtures, and their relationships to color.

Change number and prerequisites to:

FCS 355 Interior Lighting and Color Theory --3 hours. Lecture and studio applications of technical, aesthetic, and psychological uses of light, lighting fixtures, and their relationships to color. Prerequisite: Junior standing.

Preferred Effective Term: Spring 2005

***FCS 416 Merchandise Buying and Assortment Planning**--3 hours. An in-depth study of the roles of merchandise buyers in central, resident, and store buying. Emphasis is placed on buying practices and techniques, market resources, and market-trip preparation. **Prerequisites: 216 and junior or senior standing or consent of instructor.**

Change prerequisites to:

***FCS 416 Merchandise Buying and Assortment Planning** --3 hours. An in-depth study of the roles of merchandise buyers in central, resident, and store buying. Emphasis is placed on buying practices and techniques, market resources, and market-trip preparation. **Prerequisites: 216, 313, and junior or senior standing or consent of instructor.**

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

UNDERGRADUATE APPROVALS: Course Revisions – continued

***FCS 421 Nutrition through the Lifecycle**--3 hours. Social-psychological, and physiological aspects of nourishing healthy individuals throughout the life cycle. **Prerequisites: FCS 201 or 221.**

Change description and credit hours to:

***FCS 421 Nutrition through the Lifecycle**--4 hours. Social, psychological, and physiological aspects of nourishing healthy individuals; investigation of the dynamics of the community and the relationship of nutrition services to the needs throughout the life cycle. **Prerequisites: FCS 201 or 221.**

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

***FCS 428 Food Science**--3 hours. Experimental approach to the study of chemical and physical properties of foods. Includes laboratory. **Prerequisite 226.**

Change prerequisites to:

***FCS 428 Food Science**--3 hours. Experimental approach to the study of chemical and physical properties of foods. Includes laboratory. **Prerequisite 226, Chemistry 103, 103L and 104, 104L or consent of instructor.**

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

FCS 434 Food Service Systems II--3 hours. Supervised work experience in management of food service. Includes laboratory. **Prerequisite: 334 or equivalent.**

Change description and prerequisites to:

FCS 434 Food Service Systems II --3 hours. Supervised work experience in management of food service. **Prerequisites: 332 and 333 or equivalent.**

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

***FCS 497ID Special Problems in Interior Design and/or Housing** --3 hours. Additional work in interior design or housing for which the student has a particular interest or need. Prerequisite: consent of instructor.

Change title and description to:

***FCS 497ID Special Problems in Interior Design**--3 hours. Additional work in interior design for which the student has a particular interest or need. Prerequisite: consent of instructor.

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

***FCS 497TC Special Problems in Textiles, Apparel, or Merchandising**--1-3 hours. Additional work in Textiles, Apparel, or Merchandising in which the student has a particular interest or need. **Prerequisite: consent of instructor.**

Change description and credit hours to:

UNDERGRADUATE APPROVALS: Course Revisions – continued

***FCS 497TC Special Problems in Textiles, Apparel, or Merchandising**--1-6 hours. Additional work in Textiles, Apparel, or Merchandising in which the student has a particular interest or need. Repeatable for a maximum of 6 hours. **Prerequisite: consent of instructor.**

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

COURSE BANKING

COLLEGE OF ARTS AND SCIENCES: Family and Consumer Sciences

FCS 108 Consumer in the Environment--3 hours. The technological society and the growing complexity of environmental issues affects the decisions of families and individuals. This course will address the development of decision-making skills that can be applied to consumer economics in general; clothing, textiles, housing, and interior design in particular.

Preferred Effective Term: Spring 2005

FCS 326 Meal Management--3 hours. Application of principles of nutrition, food preparation, and management to meal service as influenced by the family social unit. Includes laboratory. **Prerequisite: 226.**

Preferred Effective Term: Spring 2005

***FCS 439 Organization and Administration of Preschool Centers**--3 hours. Philosophy and management of day care centers, cooperative nursery schools, and Head Start programs; home and community relationships. **Prerequisite: 438, or Educational Psychology 342, or consent of the instructor.**

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

COURSE ELIMINATIONS

COLLEGE OF ARTS AND SCIENCES: Family and Consumer Sciences

FCS 101 Applied Design--3 hours. The development of values and judgments through the study of design as applied to the visual environment, clothing, interiors, housing, and community.

Preferred Effective Term: Spring 2005

FCS 312 Weaving I--3 hours. An exploration of four-harness weave structures, tapestry and rug techniques, color, and concept problems. Prerequisite: 108 or consent of instructor. (Also listed as Art 350.)

Preferred Effective Term: Fall 2004

UNDERGRADUATE APPROVALS: Course Eliminations – continued

FCS 363 Introduction to Housing--3 hours. Survey of housing from behavioral, economic, legal, social, and technical points of view. Emphasis on real estate, special-needs, and life-cycle housing.

Preferred Effective Term: Spring 2005

FCS 407 Family and Consumer Sciences Professional Seminar--2 hours. Entry into the workplace is facilitated by the mastery of skills pertaining to functioning in the business or professional setting. This course will focus on the commonalities of professional practice affecting all students in family and consumer sciences and will include specific assignments relevant to the specialized areas of family and consumer sciences.

Preferred Effective Term: Spring 2005

FCS 453 Advanced Internship--3 hours. Supervised experience in business and professional practices in interior design, facility management, or related design field. Prerequisite: junior or senior standing and consent of instructor.

Preferred Effective Term: Spring 2005

COURSE REACTIVATIONS

COLLEGE OF ARTS AND SCIENCES: Family and Consumer Sciences

FCS 320 Orientation to Dietetics--1 hour. Survey of roles of dietitians as members of management and health care teams. Legal and ethical considerations for dietitians and student dietitians in clinical experiences. **(Dietetics students only)**

Preferred Effective Term: Spring 2005

FCS 455 American Interiors and Furniture--3 hours. A continuation of 354. The development of American interiors and furniture, with emphasis on the forces shaping contemporary design. Prerequisite: 354 or consent of instructor.

Change description and prerequisites to:

FCS 455 American Interiors and Furniture-3 hours. The study of the history of architecture, interiors, and furniture in America from 1600 through the Victorian Revivals and the industrial revolution of the 19th century. Historic preservation and adaptive reuse are examined. The class links with interior design studio III, FCS 352. **Prerequisite: 351, 354 or consent of instructor.**

Preferred Effective Term: Spring 2005

UNDERGRADUATE APPROVALS: Course Reactivations – continued

COLLEGE OF ARTS AND SCIENCES: History

***HIST 489 Culture and Modernity in Japan: 1868 to Recent Times**--3 hour. It is conventional to say that Japan's success in the modern world arises from successful imitation. It is true that the foundations of Japan's success were laid at a time (in the late nineteenth century) when imitation of all aspects of Western civilization was almost a craze in Japan. But what tensions are created when a country with an ancient, and distinctive, culture suddenly makes wholesale borrowings from the modern West? This course, by exploring the perceived tensions between Japanese tradition and imported Western values from 1868 until recent times, will help students understand the real complexities of Japan's modern history. No previous knowledge of Japanese history will be assumed.

Preferred Effective Term: Spring 2005

**Course has a graduate level equivalent*

PROGRAM REVISIONS

COLLEGE OF ARTS & SCIENCES: Chemistry
B.S. Degree in Chemistry with Business Emphasis

Executive Summary:

The Chemistry Department offers five tracks for undergraduates to obtain a B.S. degree in chemistry. One of these tracks is the chemistry major with business emphasis. The curriculum includes coursework in chemistry and business for students who seek a marketing career in the chemical or pharmaceutical industries. The Department has identified a number of deficiencies with the track; a revision is proposed.

Rationale:

The business emphasis track has been offered by the Department for roughly a decade. Chemistry majors must select one of five tracks prior to their junior year. The business track attracts the attention of several students every year. Recently, a number of pre-medical students have indicated their interest in this track because they have been advised that a background in business is beneficial for establishing a private practice in the communities that they choose to serve.

Despite interest, few students (in fact, only two) have chosen to pursue the business track degree in the last eight years. Through its assessment activities, the Department has identified several shortcomings of the current business track:

1. The business track has a 78 credit hour requirement, compared to the 69 credit hour requirements of the three most popular tracks (ACS certified, biochemistry, preprofessional).

UNDERGRADUATE APPROVALS: Program Revisions – B.S. Chemistry – continued

2. Business track students complete the major with a much weaker chemistry background than students on other tracks. Nine fewer credit hours in chemistry are required, with limited experience with chemical instrumentation and no advanced laboratory experience. Also, business track students are not currently required to participate in the assessment activities of our senior seminar course (Chem 400).

3. The business requirement of the current track focuses predominantly on marketing, which is inappropriate for students interested in business administration or management. The required advanced marketing courses also have hidden prerequisites as a result of recent revisions to the business program.

The revised business track proposed here is designed to correct these deficiencies:

1. The proposed track has a total 69 credit hour requirement in chemistry, physics, math, economics and business, consistent with the 69 credit hour requirements of the ACS certified, biochemistry, and preprofessional tracks.

2. The required chemistry increases by nine credit hours. Business track students will complete the same core chemistry courses as students on the ACS certified, biochemistry, and preprofessional

tracks. The additional requirements in chemistry include instrumental analysis (Chem 421), advanced laboratories in organic (Chem 355), biochemistry (Chem 431L) and physical chemistry (Chem 465L), and the senior seminar (Chem 400).

3. The business requirement has been reduced from 36 to 18 hours. Students will complete course work in economics and business, including macro- and microeconomics, financial accounting, and introductory courses in management, finance, and marketing. Though not required, students may choose to enroll in an additional six hours in business (MIS 276 and an elective) to complete a minor in business administration. Moreover, the economics and business courses included in the revised track generally serve as foundational courses required for admission to masters of business administration programs at Indiana State University and other institutions in the Midwest.

NEW CATALOG COPY

This program is designed for the student who wishes to pursue a career in the chemical or pharmaceutical industry with an interest in marketing or business administration.

Required Courses: 30 hours of the core curriculum.

Chemistry: 431-3 hrs.; 431L-1 hr.; 465-4 hrs.; 465L-2 hrs.

Physics: 105-3 hrs.; 105L-1 hr.; 106-3 hrs.; 106L-1 hr.

Economics: 200-3 hrs.; 201-3 hrs.

Business: 201-3 hrs.; Finance 200-3 hrs.; Management 301-3 hrs.; Marketing 301-3 hrs. Electives: 3 hours of advanced 300- or 400-level courses in chemistry.

UNDERGRADUATE APPROVALS: Program Revisions – B.S. Chemistry – continued

Side-by-side Comparison of Old and New Programs

Old Program		New Program	
Course	Credit Hours	Course	Credit Hours
CHEM 105	3	CHEM 105	3
CHEM 105L	1	CHEM 105L	1
CHEM 106	3	CHEM 106	3
CHEM 106L	1	CHEM 106L	1
CHEM 321	4	CHEM 321	4
CHEM 351	3	CHEM 351	3
CHEM 351L	1	CHEM 351L	1
CHEM 352	3	CHEM 352	3
CHEM 352L	1	CHEM 352L	1
		CHEM 355	1
CHEM 371	3		
		CHEM 400	1
		CHEM 410	1
		CHEM 421	3
CHEM 431	3	CHEM 431	3

		CHEM 431L	1
CHEM 465	4	CHEM 465	4
		CHEM 465L	2
		CHEM elective (300-499)	3
Total Chemistry Hours	30	Total Chemistry Hours	39
ECON 200	3	ECON 200	3
ECON 201	3	ECON 201	3
MATH 131	4	MATH 131	4
PHYS 105	3	PHYS 105	3
PHYS 105L	1	PHYS 105L	1
PHYS 106	3	PHYS 106	3
PHYS 106L	1	PHYS 106L	1
COMM 215	3		
BUS 201	3	BUS 201	3
BUS 202	3		
BUS 205	3		
BUS 311	3		
BUS 371	3		
		FIN 200	3
		MGT 301	3
MIS 276	3		
		MKTG 301	3
MKTG 305	3		
MKTG 338	3		
MKTG 439	3		
Total Hours	78	Total Hours	69

UNDERGRADUATE APPROVALS: Program Revisions – Social Studies Education – continued

**COLLEGE OF ARTS AND SCIENCES
B.A./B.S. Social Studies Education**

Summary

The proposed change expands the combination of courses in economics and geography that can be applied to fulfill the non-licensure requirements. The revision will add Geography 130 World Geography to the current options. The revision will add Economics 200 Macroeconomics and provide students with a choice of ECON100 or ECON200.

Rationale

The proposed change will increase flexibility in several ways by allowing students to have increased options for non-licensure. In the case of economics, students who are unsure as to whether or not to seek licensure in economics will be able to complete a course (ECON200) that will count towards both licensure

and non-licensure. Currently, student have only one option (ECON100) and this option cannot be applied to licensure. As required, ECON200 maps to the IPSB standards associated with macroeconomics. In the case of geography, many 1st year students enroll in world geography (GEOG130) prior to declaring a major in SSE to later learn that the MCS:IC course will not count towards non-licensure. Insofar as world geography maps to the standards, the addition of the course to the non-licensure option is appropriate. Further, the addition of ECON200 and GEOG130 will expand the opportunity to offer SSE learning communities and provide staffing flexibility. Finally, the SSE major has a large number of transfer students and these courses are often transferred in, thereby making the major more attractive to transfer students.

NEW CATALOG COPY

OLD PROGRAM	REVISED PROGRAM
Social Science Methods Courses SS305 SS306	Social Science Methods Courses SS305 SS306
Economics Licensure ECON200 ECON201 ECON362 Electives 6 from 321, 331, 341, 351 or shared course	Economics Licensure ECON200 ECON201 ECON362 Electives 6 from 321, 331, 341, 351 or shared course
Geography Licensure GEOG 110 GEOG 111 GEOG 115 GEOG 213 Electives in GEOG or shared course	Geography Licensure GEOG 110 GEOG 111 GEOG 115 GEOG 213 Electives in GEOG or shared course
Government Licensure PSCI 201 PSCI 305 PSCI 280 or 370 PSCI 400 level Directed Elective Open Elective in PSCI or shared course	Government Licensure PSCI 201 PSCI 305 PSCI 280 or 370 PSCI 400 level Directed Elective Open Elective in PSCI or shared course

Psychology Licensure PSY 101 PSY 201 PSY 344 PSY 362 Open Elective in PSY or shared course	Psychology Licensure PSY 101 PSY 201 PSY 344 PSY 362 Open Elective in PSY or shared course
History Licensure HIST 101 HIST 102 HIST 201 HIST 202 400 level directed elective US 400 level directed elective World 400 level directed elective Europe Open Elective in HIST or shared course	History Licensure HIST 101 HIST 102 HIST 201 HIST 202 400 level directed elective US 400 level directed elective World 400 level directed elective Europe Open Elective in HIST or shared course
Sociology Licensure SOC 280 SOC 220 SOC 390 SOC 499 Senior Seminar Open Elective in SOC or shared course	Sociology SOC 280 SOC 220 SOC 390 SOC 499 Senior Seminar Open Elective in SOC or shared course
Non-Licensure Economics ECON 100 Geography GEOG 110 or GEOG 213 Government PSCI 201 Psychology PSY 101 Sociology SOC 100 or SOC 110 or SOC 220 or SOC 240 History HIST 102 AND HIST 202	Non-Licensure Economics ECON 100 or ECON200 Geography GEOG 110 or GEOG 213 or GEOG130 Government PSCI 201 Psychology PSY 101 Sociology SOC 100 or SOC 110 or SOC 220 or SOC 240 History HIST 102 AND HIST 202

Preferred Effective Term: Fall 2004

COLLEGE OF HEALTH AND HUMAN PERFORMANCE

Athletic Training

B.S. Athletic Training

Executive Summary

The Athletic Training Department proposes that PE 220L be added to our curricula and to have it listed as a pre-requisite course for the Upper Division of the program.

Summary of Proposed Changes

- Change the number of credit hours in the program (from 75 hours to 76 hours)
- Change the program upper-division entrance requirements to:
 Pre-requisite courses: ATTR 110, 210 (or LIFS 231), 210L (or LIFS 231L), 212, 212L, 280, CHEM 105, 105L, HLTH 111, PE 220 (or LIFS 241) PE 220L (or LIFS 241L), PHYS 105, 105L, PSY 101.

Rationale

Accreditation standards necessitate that we include exercise physiology in our curricula. To ensure that this standard is met, we currently require students to successfully complete PE 220. Recently, the Department of Physical Education has added a PE 220 laboratory course to supplement instruction in the lecture. This additional course will assist athletic training students knowledge and skill in exercise physiology.

NEW CATALOG COPY

Athletic Training Major (76 semester hours, including clinicals)

¹**Required Core (34 hours):** 110 – 3 hrs.; 212 – 3 hrs.; 212L – 1 hr.; 225 – 3 hrs.; 280 – 3 hrs.; 363 – 3 hrs.; 365 – 3 hrs.; 425 – 3 hrs.; 435 – 3 hrs.; 472 – 3 hrs.; 473 – 3 hrs.; 475 – 3 hrs.

Required Support Courses (22 hours): 210 – 2 hrs.; 210L – 1hr.; Counseling 433 – 3 hrs.; Family and Consumer Sciences 429 – 3 hrs.; Health and Safety 211 – 2 hrs.; 211L – 1 hr.; 340 – 3 hrs.; Physical Education 220 – 2 hrs.; 220L - 1 hr.; 480 – 4 hrs.

¹**Clinical Experience (20 hours):** 255 – 1 hr.; 256 – 1 hr.; 355 – 3 hrs.; 356 – 3 hrs.; 455 – 6 hrs.; 456 – 6 hrs.

Pre-requisite General Education Courses: Chemistry 105 – 3 hrs.; 105L – 1 hr.; Health and Safety 111 – 3 hrs.; Physics 105 – 3 hrs.; 105L – 1 hr.; Psychology 101 – 3 hrs.

¹Formal application and acceptance into the upper division of the major is required to take courses in the 300 or 400 series. The number of students accepted to the upper division is limited. Application is made after successful completion of 110, 210, 210L, 212, 212L, 255, 256, 280, PE 220, PE 220L, CHEM 105, 105L, PHYS 105, 105L, PSY 101, and HLTH 111. Selection Criteria are as follows: GPA in these pre-requisite courses (25%), Entrance Exam (25%), Observation Supervisor Evaluation (20%), Cumulative GPA (15%), Interview (15%).

PROGRAM SUSPENSION

COLLEGE OF EDUCATION: COMMUNICATION DISORDERS

A.S. Speech-Language Pathology Assistant

CIP 510203, Major Code 7401

Executive Summary and Rationale:

The Department of Communication Disorders is seeking to suspend the associate's degree program in speech-language pathology assistant due to low enrollments that have occurred over the last two years. With several recent changes that have occurred in Indiana state law related to the licensing of speech-language pathology therapy service providers in schools, job opportunities for graduates of this associate's

UNDERGRADUATE APPROVALS: Program Suspension – A.S. Speech-Language Pathology Assistant – continued

degree program have decreased. The department believes that this may be one of the factors that have contributed to decrease interests and enrollments in this program.

Low enrollments in speech-language pathology assistant specific courses combined with limited faculty resources within the department make continuation of the program at this time financially unfeasible. The department seeks suspension at this time so that it can shift its limited faculty resources to support continued quality instruction in its bachelor's and master's degree program.

The department does not seek to eliminate the program at this time because it feels that the program may be able to be reactivated in the future given increased interest, enrollment, and faculty resources.

NEW Catalog Copy:

None.

Preferred Effective Term: Spring 2005

CLARIFICATION

The following majors are published here to clarify all requirements for completion of each degree program.

Manufacturing Technology Major (62 semester hours)

Required courses: Manufacturing Core

Manufacturing and Construction Technology: 131—2 hrs.; 225—3 hrs.; 270—3 hrs.; 370—3 hrs.; 371—3 hrs.; 372—3 hrs.; 478—3 hrs.; 492—3 hrs.

Industrial and Mechanical Technology: 103—3 hrs

Electronics and Computer Technology: 160—3 hrs.

Mathematics: 115—3 hrs. **or** Industrial and Mechanical Technology 215—3 hrs.

Required courses: Manufacturing Management

Manufacturing and Construction Technology: 374—3 hrs.; 471—3 hrs.; 473—3 hrs.; 477—3 hrs.; 497—3 hrs.

Industrial and Mechanical Technology: 333—3 hrs. **or** 329—3 hrs.

Health, Safety, and Environmental Health Sciences: 318—3 hrs.

Accounting: 200—3 hrs.

Management: 301—3 hrs.

Manufacturing and Construction Technology 295—3 hrs. **or** Management Information Systems 276—3 hrs.

Directed General Education: Economics 100—3 hrs.; 351—3 hrs.; Physics 105—3 hrs.; 105L—1 hr.;

Chemistry 105—3 hrs.; 105L—1 hr.; English 305T—3 hrs.; or 405—3 hrs.

CLARIFICATIONS: Continued

Computer Integrated Manufacturing Major (59 semester hours)

Required courses: Manufacturing Core

Manufacturing and Construction Technology: 131—2 hrs.; 225—3 hrs.; 270—3 hrs.; 370—3 hrs.; 371—3 hrs.; 372—3 hrs.; 478—3 hrs.; 492—3 hrs.

Industrial and Mechanical Technology: 103—3 hrs.

Electronics and Computer Technology: 160—3 hrs.

Mathematics: 115—3 hrs. or **Industrial and Mechanical Technology** 215—3 hrs.

Required courses: Computer Integrated Manufacturing

Manufacturing and Construction Technology: 295—3 hrs.; 376—3 hrs.; 468—3 hrs.

Industrial and Mechanical Technology: 329—3 hrs.; 203—3 hrs.; 403 or 407 or 413—3 hrs.; 438—3 hrs. or **Electronics and Computer Technology** 444—3 hrs.

Electronics and Computer Technology: 281—3 hrs. or 381—3 hrs.; 382—3 hrs.

Directed General Education: Physics 105—3 hrs.; 105L—1 hr.; Chemistry 105—3 hrs.; 105L—1 hr. English 305T—3 hrs. or 405—3 hrs.