

CENTRAL CONNECTICUT STATE UNIVERSITY

Senate Motion Number FS-05-17-39

University Senate Motion

TO: President Richard Judd
FROM: President of the University Senate

1. The attached motion of the University Senate, dealing with Curriculum Report is presented to you for your consideration. Two additional copies are included for your use.

2. This motion was adopted by the University Senate on 5/17/04

3. After considering this motion, please indicate your action on this form, and return it together with the original copy to the President of the University Senate.

4. Under the By-Laws of the University Senate, Section 3.8, the following schedule of action is to be observed.

a) By 5/21/04, Senate action reported to the President of University.
(Date)

(Within five school days of the session in which they are adopted).

b) By 6/20/04, President of the University to return the motion to the
(Date)

President of the Senate. (Within 10 school days of its receipt).

6/10/04
(Date)

[Signature]
President, University Senate

ENDORSEMENT:

TO: President of the University Senate

FROM: President Richard Judd

1. Motion Approved [Signature]

2. Motion Disapproved _____
(Explanatory statement must be appended)

3. Action "is deferred" _____

4. Resolution Noted _____

5. Other _____

6/17/04
Date

[Signature]
President

MAY SENATE REPORT

This report was approved by the Faculty Senate at its May 17, 2004 meeting.

(Unless otherwise noted, course additions/changes/deletions take effect in Intersession/ Spring 2005; program changes/additions take effect for Fall 2004. *New wording for course and program changes is noted in italics.*)

1. Department of Finance .

- a. [Course Revision of FIN 430](#), International Financial Management.

Change title to: International Finance.

Change description to: A study of the principles and practices of finance in an international setting. Explores the primary elements of international monetary economics with emphasis on exchange rate analysis. Major topics of study include exchange risks and international financial markets.

- b. [Course Revision of FIN 543](#), International Finance.

Change title to: Multinational Financial Management.

(Note: New description can be found in November 2003 report.)

2/12. Department of Mathematical Sciences.

- a. [Program Revision](#) of BA Major in Mathematics with Actuarial Science specialization.

This revision changes the second list of courses within Electives (18 credits):

from: 6-12 credits chosen from AC 211, 212; CS 151,152, 213, 473; ECON 300, 305; FIN 295, 320, 410, 421; LAW 250; MGT 295

to: 6-12 credits chosen from AC 211, 212; CS 151, 152, 213, 473; ECON 300, 305; FIN 295, 301, 310, 320, 421; LAW 250; MGT 295.

- b. [Course Revision of MATH580](#), Directed Study in Mathematics.

Change credits from: 3 to: 1-3.

3. Department of Biological Sciences.

- a. [Course Revision of BIO318](#), Anatomy and Physiology I.

Cross-list as BMS318.

Change prerequisites to: BIO 122 or BMS 201 or permission of the department chair.

- b. [Course Revision of BIO319](#), Anatomy and Physiology II.

Cross-list as BMS319.

Change prerequisites to: BIO 122 or BMS 201 or permission of the department chair.

- c. [Course Revision of BIO412](#), Human Physiology.

Cross-list as BMS412.

Change prerequisites to: BIO 122 or BMS 201 or permission of the department chair.

- d. [Course Revision of BIO413](#), Human Physiology Laboratory.

Cross-list as BMS413.

Change prerequisites to: BIO412 or BMS412 (either may be taken concurrently).

- e. [Course Addition of BIO416](#), Immunology. (This course was previously on the books and changed to BIO530.)

Prerequisites: Any 300-level (or higher) course in Biological Sciences or Biomolecular Sciences or permission of department chair. Cells and organs of the immune system, immunoglobulin structure and genes, antigen- antibody interactions, major histocompatibility genes and molecules, complement, humoral and cell-mediated immunities, hypersensitivities, immunodeficiencies, transplantation, and autoimmunity. Spring. [c] 3 credits.

(Please add to BIO530: This is a link course with BIO416.)

- f. [Course Addition of BMS490](#), Topics in Biomolecular science.

Prerequisites: BMS201 or permission of department chair; junior status required. Selected studies in the biomolecular sciences. Lectures, seminars, discussions, independent readings, reports and laboratory work appropriate for the topic will be utilized. Four credit hour offerings will include one three-hour laboratory per week. May be repeated with different topics. Irregular. 3 or 4 credits.

- g. [Course Addition of BMS540](#), Topics in Advanced Biomolecular Science.

Prerequisite: Permission of department chair. Selected topics in the biomolecular sciences. Lectures, seminars, discussions, independent readings, reports, and laboratory work as appropriate for the topic will be utilized. Four credit hour offerings will include one three-hour laboratory per week. May be repeated with different topics. This is a link course with BMS490. Irregular. 3 or 4 credits.

- h. [Program Revision](#) of M.A. in Biological Sciences: Cell and Molecular Biology, . (changes noted in italics)

MASTER OF ARTS IN BIOMOLECULAR SCIENCES

The *Master of Arts in Biomolecular Sciences* is designed to fulfill the educational needs of biologists who desire further specialization and/or knowledge of recent advances in cell and molecular aspects of biology; students who seek an immersion in cell and molecular biology as an intermediate step toward

preparation for work at the doctoral level; and teachers who are interested in furthering their knowledge in molecular and cellular biology. Each student will be assigned a graduate committee that will help the student plan a sound program of study.

There are two options (Plan A and Plan B) leading to the *Master of Arts in Biomolecular Sciences* degree, both of which require a total of 30 credits, made up of a Course Component and a Capstone Component.

Course Component (24-27 cr.)

BMS 500	Seminar in BMS	1
BMS 540	Topics in Advanced BMS	3-4
BMS 572	Laboratory Rotation in Cell & Mol. Biol.	1

and biomolecular course electives (18-22 cr in BMS or related fields) from the following courses or others as approved by the advisor:

<i>BMS 412 (413)</i>	<i>Human Physiology (with optional lab)</i>	3-4
BMS 505	Molecular Biology	4
BMS 506 (497)	Biosynthesis... (with optional lab)	3-4
BMS 540	Topics in Advanced BMS	3-4
BMS 562	Developmental Biology	3
BMS 570	Advanced Genetics	3
BMS 590	Focused Study in Advanced BMS	1-4
CHEM 454 (455)	Biochemistry (with optional lab)	3-4
CHEM 456	Toxicology	3
BIO 449 (450)	Plant Physiology (with optional lab)	3-4
BIO 530	Immunology	3

Capstone Component (3-6 cr.)

Plan A:

Option 1, BMS 599 Thesis (6 cr.) and a thesis defense *or*

Option 2, BMS 599 Thesis (3 cr.) and *BMS 591 Independent Research Project* (3 cr.) and a thesis defense

or

Plan B:

BMS 591 Independent Research Problem (3 cr.) and a Comprehensive Exam.

Note: No more than 9 credits at the 400-level will be allowed in the graduate Planned Program of Study.

[This will require Department of Higher Education review.]

i. [Program Revision](#) of Official Certificate Program 501: Post-Baccalaureate Certificate In Cell and Molecular Biology.

Program Overview

This non-degree certificate program is designed for college graduates wishing to expand or update their knowledge of modern cell and molecular biology, but who are not ready to commit to a graduate program leading to a master's degree. This post-baccalaureate certificate program provides these students a formal option for acquiring both advanced instruction and academic advisement.

Admission

Students must have completed a bachelors degree to participate in the program. Potential students should contact the Office of Graduate Admissions to request an application packet. The application requires official transcripts from all colleges and universities attended and an essay describing why the student is interested in the program. Completed applications will be filed with the Graduate Admissions Office. The Biomolecular Sciences Chair will schedule an interview with the applicant, during which an advisory committee will work with the candidate to develop an individualized plan of study in keeping with their academic background and professional goals. The advisory committee will make admission recommendations to the Department which will make final admission decisions on a rolling basis. Successful applicants will have a 2.70 undergraduate cumulative grade point average and course prerequisites must be met, including *BMS 102 (or BIO 121)*, *BMS 190, 201, 290*; and *CHEM 121 and 122*; or equivalent. Post-baccalaureate students will be classified as graduate students; they may be either part-time or full-time and may qualify for financial aid. Only students matriculated as full-time may take nine or more credits a semester. Part-time and non-matriculated students are limited to less than nine credits/semester.

Program Requirements

The Official Certificate Program in Cell and Molecular Biology will require 18-20 credits in approved cell and molecular biology courses (see below), including BMS 572, BMS 590, and at least two cell and molecular biology courses that include laboratory instruction. Any individual program must be selected and approved in consultation with the Biomolecular Sciences advisor. A minimum of 15 credits in the planned program must be taken at CCSU.

Research Component:

BMS 572 *Laboratory Rotation in Cell and Molecular Biology* 1

BMS 591 *Independent Research Project 2*

Laboratory Science Component:

2 courses with lab from the following:

BMS 505 *Molecular Biology* 4

BMS 506/497 *Biosynth., Bioenerget, and Met. Regulation (with Lab.)* 4

BMS 540 *Topics in Advanced Biomolecular Science* 4

BIO 449/450 *Plant Physiology / Investigations in Plant Physiology* 4

Elective Component:

7- 9 credits elected from any additional Lab. Science course(s) listed above and/or from the following:

BMS 540 *Topics in Advanced Biomolecular Science* 3

BMS 562	<i>Developmental Biology</i>	3
BMS 570	<i>Advanced Genetics</i>	3
BMS 506	<i>Biosynthesis, Bioenergetics, and Metabolic Regulation</i>	3
BIO 449	<i>Plant Physiology</i>	3
BIO 416	<i>Immunology</i>	3
CHEM 454	<i>Biochemistry</i>	3
CHEM 456	<i>Toxicology</i>	3

Note: To enroll in BMS 572, students need to have a planned program approved by the Biomolecular Sciences advisor.

The student must maintain a 3.00 (B) cumulative grade point average in order to be in good academic standing and to receive the post-baccalaureate certificate. Upon completion of the planned certificate program, a certificate will be issued from the Office of Continuing Education. (While completion of this program does not lead to a graduate degree, courses at the 400- level or above that are taken as part of the post-baccalaureate certificate program may be counted towards a master's degree, provided that: the graduate-syllabus option is elected at the time of course registration in all 400-level courses, all master's program admissions and degree requirements are met, and the courses are part of a planned program of study approved by the master's degree advisor.)

j. [Program Revision](#) of OCP 101: Certificate in Biotechnology, .

This certificate program is designed for undergraduates with majors other than Biomolecular Sciences who wish to develop proficient laboratory skills and demonstrate specialized knowledge in the area of modern molecular biotechnology.

The Biomolecular Sciences Chair will serve as the point-of-contact for interested students and will assign each a committee of three advisors who work with the students to develop a planned program to best serve individual needs and goals.

To be eligible for a Certificate in Biotechnology, a student must be in good standing. Courses taken to satisfy major requirements *may* be counted to satisfy certificate requirements as well, provided the student has earned a B or better in such courses. Award of the certificate will require portfolio compilation and review (see Undergraduate Catalog for description of the Biomolecular Sciences portfolio requirement).

The Certificate in Biotechnology requires 17-18 credits from the list below, including at least 3 credits of laboratory instruction and at least 2 credits of independent laboratory research.

Research Component (2 cr.):

BMS 390 and BMS 491.

Laboratory Science Component (12 cr.):

Three 4-credit courses (with lab) chosen from the following:

BMS 306, 311, 316, 490 (4-credit sections only), 495, 496/497; BIO 449/450; or CHEM 454/455.

Molecular Biology Elective (3-4 cr.):

Three-four additional credits elected from any of the above or from the following:

BMS 490, 562, 570; BIO 416; or CHEM 456.

Note: Course prerequisites must be met. Undergraduate students who wish to enroll in graduate courses are required to have a 3.0 CGPA and senior standing (at least 87 credit completed). Students are also required to obtain the written permission of their advisor, chair of the department offering the course and the graduate dean prior to registration.

k. [Program Addition](#) of Major in Biomolecular Sciences, B.S.: General Program(non-teaching),
 . [See Below]

l. [Program Addition](#) of Major in Biomolecular Sciences, B.S.: Biotechnology Specialization
 (non-teaching), .

The Biomolecular Sciences Department offers instruction in molecular biology, cell biology, genetics and physiology that is strongly integrated with the theory and practice of molecular biological research. The Department offers two B.S degrees in Biomolecular Sciences, and participates in an additional interdisciplinary program that leads to a B.S. degree in Biochemistry. In addition, the Department offers a Minor in Biomolecular Science, and an Official Certificate in Biotechnology appropriate for students with majors other than biomolecular science.

Student-centered research is a feature of all undergraduate programs in Biomolecular Sciences. Located in Copernicus Hall, the Biomolecular Sciences Department includes a wide range of modern research equipment in laboratories designed both for class instruction and for independent student research. Special facilities include a protein purification and analysis facility, a cell culture facility, a molecular genetics research laboratory, a laboratory animal care suite, and a computer laboratory. Student-centered biomolecular research activity is also promoted, fostered, and supported by the Biotechnology Institute at CCSU, an interdisciplinary organization (housed in the Biomolecular Sciences Department) that is dedicated to developing college graduates with excellent research skills. The Biomolecular Sciences Department is strongly committed to student advising, and routinely promotes and participates in academic and extracurricular activities aimed at facilitating student learning and success.

Major in Biomolecular Sciences, B.S. (Non-teaching)

Core (10 credits): BMS 102, 190, 201, 290, 390, and 491, and ONE of the following Advanced Components (a or b). (BIO 121 may be substituted for BMS 102/190.)

Advanced Component options (35 credits required in the major)**(a) General Program**

This program offers a curricular focus on molecular and cellular mechanisms that is integrated with organismal physiology and emphasizes hands-on learning through laboratory instruction and

independent student research. This degree is appropriate for students wishing to prepare for professional training in medicine or for graduate study in such areas as genetics, microbiology, molecular biology, or cell physiology.

This program requires completion of the Core; plus 3 Laboratory Courses including BMS 306, 311, 316; and additional Directed Electives to complete 35 credits in the major, chosen from BMS 319, 391, 412/413, 415, 490, 495, 496/497, 499, CHEM 320, 454/455, 456, BIO 401, 416 or 449/450

(b) Biotechnology Specialization

This program offers a strong focus on the principles of cell and molecular biology and emphasizes the practice of biomolecular research. It is designed to prepare students for advanced study in the biomolecular sciences or careers that use the concepts and techniques of molecular and cellular biology.

This program requires completion of the Core; plus 4 Laboratory Courses including BMS 306, 311, 316, 495; and additional Directed Electives to complete 35 credits in the major, chosen from BMS 391, 415, 490, 496/497, 499, CHEM 454/455, 456, or BIO 449/450.

Related Requirements (16-28 credits):

In addition to the 35 credits in the major, made up of the Core and ONE of the Advanced Component described above, the student must take MATH 124 (or 115 and 125), CHEM 121, 122, 311, 312; PHYS 121 and 122; and maintain a Student Portfolio. While no minor is required for the B.S. in Biomolecular Sciences, a minor in General Science, B.S., may be elected with a C- or better in Related Requirement courses CHEM 121, 122, PHYS 121, and 122. Some Related Requirement courses may also be counted to fulfill appropriate portions of the student's General Education Program.

Double-listed Courses

BMS 318, 319, 412, and 413 are also listed in the Biological Sciences section of the Undergraduate Catalog with the BIO designator. These double- or cross-listed courses (*i.e.*, BMS 318 and BIO 318) are considered fully equivalent.

500-Level Course Options

Undergraduate students with at least 87 credits and a CGPA of 3.0 or higher may (with the approval of the appropriate Department chair, Dean, and with appropriate prerequisites) choose any of the following 500-level courses in the Directed Elective portion of the Advanced Component of their major program:

BMS 500	Seminar in Biomolecular Science	1
BMS 540	Advanced Topics in Biomolecular Science	3-4
BMS 562	Developmental Biology	4
BMS 570	Advanced Genetics	3

Portfolio Requirement

The Portfolio Requirement in Biomolecular Sciences will be formally introduced to students during the BMS 190 and 290 introductory core component of all major programs in Biomolecular Sciences. Minimally, the Student Portfolio must include a current resume, a current Student Graduation Evaluation or transcript, a planned program of academic study (program sheets available from the Biomolecular Sciences Department), a narrative describing the student's goals for undergraduate education and graduate educational or career plans, abstracts of all independent study projects completed, and writing samples from one or more upper-level courses in the major. To fulfill the Portfolio Requirement in Biomolecular Sciences, the Student Portfolio must be reviewed with one or more faculty members in Biomolecular Sciences: 1) as a course requirement in BMS 190 and 290, 2) as a required component of all BMS 390, 391, or 491 independent studies or internships, and 3) prior to application for graduation, as evidenced by submission of a "Portfolio Requirement Completed"

form (available from the Biomolecular Sciences Department and signed by the major advisor) to the Biomolecular Sciences Chair.

[This will require Department of Higher Education review.]

m. [Program Addition](#) of Minor in Biomolecular Sciences(non-teaching), .

20 credits including BMS 102, 190, 201, and 290 (8 credits); and additional BMS courses (12 credits), as approved by the Biomolecular Sciences advisor. (BIO 121 may be substituted for BMS 102/190.)

[This will require Department of Higher Education review.]

4. Department of Chemistry.

a. [Program Deletion](#) of Chemistry-Biological Chemistry Specialization, . Request submitted Mon_Apr_5_2004_13:36:51. [A/S].

b. [Program Addition](#) of Major in Biochemistry, B.S. (Non-teaching).

The B.S. program in Biochemistry provides a strong foundation in both chemistry and molecular biology, and is based on faculty, facilities, and research resources in both the Department of Chemistry and the Department of Biomolecular Sciences. In addition to in-class laboratory instruction, this interdisciplinary program emphasizes independent student research carried out under the guidance of faculty members from either one or both departments. This program is designed to prepare students for careers or advanced study in molecular biology, biochemistry, or health-related fields.

The program consists of 55-58 credits in the major, distributed as follows:

Foundation Courses (33 credits) BMS 102, 190, 201, and 290; CHEM 121, 122, 301, 311, 312, 316, and 320.

Directed Electives (13-16 credits)

One 4 credit course chosen from:

BMS 306, 311, or 316.

AND 6 to 8 additional credits chosen from the above listed 300-level BMS courses or from the following: BMS 415, 490, 495, BIO 416.

AND 3 to 4 additional credits in chemistry chosen from: CHEM 402, 406, 456, 459, or 485.

Research (2 credits)

2 credits chosen from: BMS 390, BMS 491, CHEM 238, CHEM438 (although a two-semester sequence of BMS 391 and 491, or CHEM 238 and 438 is most strongly encouraged).

Capstone (7 credits)

Both of the following courses; one must be taken with the accompanying lab: BMS496/497; CHEM 454/455.

Related Requirements:

In addition to the 55-58 credits in the major, the student must complete the following: PHYS 121 and 122; MATH 124 (or both MATH 115 and MATH 125) or MATH 152; and maintain a Student Portfolio (see below). While no major or minor is required for the B.S. in Biochemistry, a minor in Science, B.S. may be elected with a C- or better in PHYS 121 and PHYS 122. These related requirement courses may also be counted to fulfill appropriate portions of the student's General Education program.

Portfolio Requirement

The Portfolio Requirement will be formally introduced to students during the BMS 190 and 290 introductory courses. Minimally, the Student Portfolio must include a current resume, a current Student Graduation Evaluation or transcript, a planned program of study, a narrative describing the student's goals for undergraduate education and graduate education or career plans, abstracts of all independent study projects completed, and writing samples from one or more upper-level courses in the major. To fulfill the Portfolio Requirement, the Student Portfolio must be reviewed with one or more faculty members: 1) as a course requirement in BMS 190 and 290, 2) as a required component of independent student research projects, and 3) prior application for graduation, as evidenced by submission of a "Portfolio Requirement completed" form (signed by the major advisor) to the Biochemistry coordinator.

[This will require Department of Higher Education review.]

5. Department of Computer Electronics/Graphics Technology.

- a. [Course Addition](#) of CET201, Photonics Principles.

Prerequisite: MATH 115. Exploration of light, the laws of reflection and refraction and how they apply to several devices. Examination of wavelike behavior of light. An overview of Fiber Optics and Optical image is presented. Fall. [c] 3 credits.

- b. [Course Addition](#) of CET301, Fiber-Optic Communications.

Prerequisite: CET 201. Introduction to fiber-optic communication systems. Optical detectors and receivers. Coherent light wave systems. WDM communication systems and optical amplifiers. Spring. [c] 3 credits.

6. Department of Computer Science

- a. [Course Revision](#) of CS500, Computer Science for Computer Information Technology.

Change prerequisites to: Admission to the CIT program or permission of Program Director.
[Note: Course description was changed in the April 2003 report].

- b. [Course Revision of CS501](#), Foundations of Computer Science I.

Clarify title as: Foundations of Computer Science.

Change prerequisites to: CS 500 or CS 153 or permission of instructor.

Change description to: Software design for structuring and manipulating data. Topics include stacks, queues, hash tables, trees, graphs, advanced sorting, and analysis of algorithms.

Clarify cycling: Fall Spring.

d. [Course Revision of CS530](#), Advanced Software Engineering.

Change prerequisites to: CS 501 and CS 502.

Change cycling to: Spring (o).

e. [Course Revision of CS570](#), Topics in Artificial Intelligence.

Change prerequisites to: CS 501 and CS 502.

Change description to: Topics include advanced techniques for symbolic processing, knowledge engineering, building problem solvers, *and machine learning*.

f. [Course Revision of CS590](#), Topics in High Performance Computing and Communications.

Change prerequisites to: CS 501 and CS 502.

7. Department of Criminology & Criminal Justice.

a. [Course Revision of CRM435](#), Supervised Field Studies in Criminal Justice I.

Change prerequisites to: CRM222 and CRM337 (both with a C- or better); completion of Application and permission of Director of Field Studies.

Add special conditions: Student must be in good academic standing (GPA of 2.0 or better), and have earned 89 credits by the time of his/her placement, and have taken a minimum of 24 credits in the major or 12 credits in the minor or receive special permission from the Director of the Field Studies Program.

9. Department of Manufacturing and Construction Management.

a. [Course Revision of IT464](#), Continuous Process Improvement.

Change title to: Six Sigma Quality.

Change prerequisites to: STAT104 or permission of department chair.

b. [Course Revision of IT490](#), Quality by Design.

Change title to: Advanced Six Sigma Quality.

Change prerequisites to: IT464.

- c. [Course Revision of IT595](#), Applied Research Topic in Technology.

Change title to: Applied Research Capstone Project.

Change prerequisites to: IT 594 and permission of advisor.

- d. [Course Revision of IT598](#), Research in Technology.

Change course number to: IT594.

Change prerequisites to: Admission to the M.S. Technology Management.

- e. [Course Revision of IT599](#), Thesis.

Change prerequisites to: IT 594 and permission of advisor.

- f. Course Revision of IT510, Industrial Planning & Control

Change title to: Industrial Operations Management.

10. Department of History.

- a. [Course Addition of HIST 323](#), Native Americans of the Eastern Woodlands, 1520-Present.

Examines North America's indigenous peoples living east of the Mississippi River at the time of European contact, including the Five Civilized Tribes, the Iroquois Confederacy and the First Nations of New England. Fall(e). 3 credits.

- b. [Course Addition of HIST 324](#), Native Americans of the West, 1500-Present.

Examines North America's indigenous peoples living west of the Mississippi River as the time of European contact, from the Central American region to the Northwest. Explores the history of Aztec civilization, Southwestern tribes, Plains Indians, and Northwest tribes. Irregular. 3 credits.

- c. [Course Revision of HIST381](#), Latin American History to 1823.

Add Study Area II designation.

- d. [Course Revision of HIST382](#), Latin American History since 1823.

Add Study Area II designation.

- e. [Course Addition of HIST383](#), History of Brazil.

Surveys the history of Latin America's largest country from its pre-Columbian roots to the present. Topics include: Indigenous Peoples, African enslavement, European immigration, and economic development. Irregular. 3 credits.

11. Department of Management & Organization.

a. [Course Revision of MGT403](#), Social Issues for Managers.

Change title to: Ethical and Social Issues for the Manager.

Change prerequisites to: MGT295, or permission of instructor or MBA director.

Change description to: *Defines contemporary ethical issues of managerial and corporate social responsibility and explores the impact of these issues on managerial decision-making behaviors. Emphasizes issues that emerge in the internal as well as external environments of a business organization.* Defines societal expectations of organizations regarding corporate social responsibility.

b. [Course Revision of MGT448](#), Integrative Business Strategy and Policy.

Change title to: Managing Strategy and Operations

Change prerequisites to: MIS 201, FIN 295, MGT 295 (with a grade of C- or better), and MGT 348; or permission of instructor.

Change description to: Examines ways of managing the interface between an organization's strategy and its operations. Operations are activities aimed at creating and delivering products and services of great value and high quality. Involves aligning operational capabilities with strategic direction and integrating resources to meet requirements using contemporary business tools, techniques, and methods.

Add [c] designation.

c. [Course Revision of MGT473](#), Organizing and Managing for Innovation.

Change prerequisites to: MGT 345 (C- or higher), or permission of instructor, or permission of MBA director.

d. [Course Deletion of MGT494](#), Entrepreneurship.

e. [Program Revision](#) of General Management Specialization (additions in italics)

Specialization courses:

MGT 301 Entrepreneurship and New Venture Creation

MGT 305

MGT 321

MGT 403

MGT 425

MGT 431

MGT 460

MGT 462

MGT 470

MGT 471 Managing Knowledge for Business Performance

MGT 473

MGT 481

MGT 490

MGT 496

MGT 498

Specialization Courses Total 9 credits

MGT295 must be completed with a C- or better before students can take upper level Management courses.

f. [Program Revision](#) of Entrepreneurship Specialization, .

Add the following statement (as noted in italics):

Students must complete the School of Business 27-credit Common Business Core (See column 1 on page 62) plus the following 30 credits. *However, they may not take courses in the specialization beyond ENT301 unless they have first met with a faculty advisor and develop a planned program. Such program must be approved by the coordinator of the Entrepreneurship Program or the Department Chair.*

13. Department of Music.

a. [Course Revision of MUS501](#), Topics in Music.

Delete prerequisites.

b. [Course Revision of MUS503](#), Topics in Instrumental Music Education.

Delete prerequisites.

c. [Course Revision of MUS505](#), Topics in Pedagogy and Curriculum.

Delete prerequisites.

d. [Course Revision of MUS506](#), Topics in Choral Music Education.

Delete prerequisites.

- e. [Course Revision of MUS507](#), Topics in Conducting.

Delete prerequisites.

- f. [Course Revision of MUS512](#), Topics in String Pedagogy.

Delete prerequisites.

- g. [Course Revision of MUS536](#), Topics in Music Technology.

Delete prerequisites.

- h. [Course Revision of MUS557](#), Topics in General Music Education.

Delete prerequisites.

- i. [Course Revision of MUS570](#), Topics in Vocal Techniques.

Delete prerequisites.

- j. [Course Revision of MUS572](#), Topics in Literature for Bands.

Delete prerequisites.

- k. [Course Revision of MUS577](#), Secondary Applied Music.

Change description to: Individual instrumental or vocal instruction in a secondary area of performance. May be taken more than once for credit. *Applied music fee required (subject to change).*

- l. [Course Revision of MUS590](#), Symphony Orchestra.

Change title to: Sinfonietta.

- m. [Course Revision of MUS592](#), Marching Band-Wind Ensemble.

Change title to: Wind Symphony.

14. Department of Physical Education and Health Fitness Studies

- a. [Course Revision of PE421](#), Pharmacology in Sports Medicine and Special Populations.

Change title to: Pharmacology in Sports Medicine.

Change description to: Basic principles of pharmacology, pharmacokinetics, and commonly prescribed therapeutic medications in an athletic population. Introduction to contemporary medications, social drugs, and performance enhancers used in sports medicine.

- b. [Course Addition of PE383](#), Recreation and Physical Activity for the Aging.

Prerequisites: PE 214 and PE 375 (both with C- or higher). Introduction to the needs of an aging population as applied to the provisions of recreation and physical activity in community and institutional settings. Students will apply appropriate activities and methods of teaching recreation and physical activity to older adults. Required for exercise science majors only. Fall. 3 credits.

d. [Course Addition of PE414](#), Physiology of Sport and Exercise.

Prerequisites: PE 214 and PE 307 (both with C- or higher). Study how the body responds to acute and chronic bouts of exercise and to further apply these responses to training the athlete. Required of athletic training and exercise science majors. Fall. 3 credits.

g. Course Deletion of PE306, Recreation and the Aging Process

h. Course Deletion of PE403, Methods in Physical Activity for the Aging

15. Department of Physics and Earth Sciences.

a. [Course Addition of PHYS 341](#), Fiber Optic Communication Theory.

Prerequisite: PHYS 325. Scientific principles of fiber optics and optical communication systems. Examines fundamental behavior of optical components, device interactions in optical fiber links, and performance characteristics of complex optical links and networks. Irregular. 3 credits.

b. [Program Addition](#) of Digital and Optical Science (B.S.) , .

54 total credits:

PHYS 125, PHYS 126, PHYS 220, PHYS 305, PHYS 325, PHYS 338, PHYS 339, PHYS 341, PHYS 425, PHYS 460; CS 151, CS 152, CS 153, CS 253, CS 254, CS 354, CS 425, CS 490. In addition students are required to take: MATH 152, MATH 218, MATH 221, and MATH 222. No minor is required.

[This will require Department of Higher Education review.]

16. Department of Psychology.

a. [Course Revision of PSY512](#), Seminar in Developmental Psychology.

Change prerequisites to: Admission to Graduate program or permission of instructor.

b. [Course Revision of PSY530](#), Psychopathology.

Change prerequisites to: Admission to Graduate program or permission of instructor.

c. [Course Revision of PSY541](#), Health Psychology.

Change prerequisites to: Admission to Graduate program or permission of instructor.

Change description to: Examination of health-related behaviors, stress, risk factors and methods to improve well-being. Mind-body aspects of *chronic illness*, addiction, and immune system disorders

are discussed.

d. [Course Revision of PSY542](#), Psychology of Stress.

Change prerequisites to: Admission to Graduate program or permission of instructor.

e. [Course Revision of PSY543](#), Stress Management: Theory & Research.

Change prerequisites to: Admission to Graduate program or permission of instructor.

f. [Course Revision of PSY546](#), Short-Term Psychotherapy and Health Care.

Change prerequisites to: Admission to Graduate program or permission of instructor.

g. [Course Revision of PSY571](#), Psychology of Women's Health.

Change prerequisites to: Admission to Graduate program or permission of instructor.

h. [Course Revision of PSY590](#), Advanced Topics in Psychology.

Change prerequisites to: Admission to Graduate program or permission of instructor.

i. [Course Revision of PSY596](#), Psychological Research: Design and Analysis I.

Change prerequisites to: Admission to M.A. program in Psychology or permission of instructor.

18. Intensive English Language Program.

a. [Course Addition of IELP200](#), English Language Enrichment.

This course will help enable students who are non-native speakers of English to further develop facility in using English for academic study. May be repeated for credit. On demand. 1 credit.

19. Review of courses not offered in last two years (or more).

Please delete the following courses:

Graduate Courses:

AC 535 Advanced Accounting

CM 535 Computer Applications in Construction Management

ED 550 Gender and Education

EDBE 514 Principles of Bilingual Education

EDBE 515 Bilingual Education: Methods and Assessment

EDL 635 Seminar in Supervision
EDL 636 Dynamics of Educational Leadership
EDL 640 The Principalship

Undergraduate Courses:

BIO 223 Info Tech Skills in the Biosciences
COMM 295 Communication Elements in Human Relations
COMM 360 Parliamentary Law/Politics
COMM 452 Health Communication Campaigns
DAN 155 Dancercize
DAN 156 Slimnastics
GEOG 100 Search in Geography
GEOG 425 Internship in Inter'l Hospitality Studies
GER 410 Business German
GRT 352 Graphic Design and Typography
MKT 443 Adv Concepts in Retailing
PS 447 Administrative Law
RUS 111-225 All Russian Courses
SPED 432 Characteristics/Educ Indiv/Emotional Disorders [keep out of catalog; keep on books]
END OF REPORT.